

Intergovernmental Oceanographic Commission

HARMFUL ALGAE:

An International Directory of Experts
in Toxic and Harmful Algae and Their Effects
on Fisheries and Public Health

Edited by Alan W. White and Teri L. Frady

1995 UNESCO

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HARMFUL ALGAE:

An International Directory of Experts
in Toxic and Harmful Algae and Their Effects
on Fisheries and Public Health

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Preface

Toxic and harmful algal blooms present a growing global problem for fisheries, aquaculture, and public health. Developing countries are especially vulnerable to sudden toxic blooms and red tides because they lack the expertise and infrastructure to deal quickly with the resulting fisheries and public health emergencies.

This international directory lists research scientists, fisheries managers, public health officials, aquaculture professionals, physicians, and animal health specialists who are experienced in dealing with toxic and harmful algal bloom events and their impact on fisheries and public health. The directory is intended to improve and accelerate international information exchange and rapid access to experts who can respond quickly to these outbreaks and thus help reduce the consequences to fisheries and public health.

The first edition of this directory was published in 1990 by the Woods Hole Oceanographic Institution Sea Grant Program. The second edition is a cooperative effort by the U.S. Department of Commerce, NOAA National Marine Fisheries Service, Northeast Fisheries Science Center and the Harmful Algal Bloom Programme of the UNESCO Intergovernmental Oceanographic Commission.

The directory was compiled from surveys distributed in late 1993 and 1994. In some cases, minor editorial changes were made in the material received. The directory is by no means comprehensive, but it is hoped that subsequent editions will be expanded as those already included update their own entries and pass surveys on to colleagues who were not contacted directly. The first edition included nearly 400 experts from 41 countries. The second edition lists more than 500 experts from 56 countries. Entries are organized alphabetically by country, and persons are listed under the country in which they are physically located. Entrants are listed alphabetically by last name in an index included at the back.

The editors thank those who responded to and who distributed surveys to others, and Henrik Enevoldsen, IOC Associate Expert, who made publishing of this directory possible.

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Due to delayed printing of the manuscript of the Directory it was decided to update and amend it with a number of new entries which was provided to the IOC during the Seventh International Conference on Toxic Marine Phytoplankton, Sendai, Japan, 12-16 July 1995, and the First International Congress on Toxic Cyanobacteria, Bornholm, Denmark, 20-24 August 1995. Those addresses have been added to the respective countries and are marked "Addendum" since they, for technical reasons, are not listed alphabetically. All names are included in the Index.

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Argentina

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Buenos Aires
Argentina

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Email:

Degrees
Licenciada

General Expertise
Biology, taxonomy

Specialty
Taxonomy and ecology of dinoflagellates

**Toxic/Noxious Organisms
Worked With**
Species of *Alexandrium*, *Gymnodinium*,
Gyrodinium

Toxins Worked With
Paralytic shellfish toxins

**Years of Experience with
Harmful Algae/Biotoxins**
12

Where Worked
Southwestern Atlantic Ocean

**Regional/International
Program Participation**
Red tide project with Uruguay through
Comisión Técnica Mixta del Frente Mari-
timo Argentino-Uruguayo

Languages
Spanish, English

Citizenship
Argentina

Boltovskoy, Andres

Research scientist
Instituto de Limnología Dr. R.A.
Ringuelet
Casilla de Correo 712
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andres@ilpla.edu.ar

Degrees
Lic.

General Expertise
Ecology, taxonomy

Specialty
Freshwater blooms, population dynamics

**Toxic/Noxious Organisms
Worked With**
Peridinium gatunense

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
20

Where Worked
Argentina; southern South America

**Regional/International
Program Participation**

Languages
Spanish, English, Russian, Portuguese,
French, Italian

Citizenship
Argentina

Gayoso, Ana Maria

Research scientist
Centro Nacional Patagonico
Casilla de Correo 128
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Argentina

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Fax: 54-965-51543
Email:

Degrees
Doctor en Ciencias Naturales

General Expertise
Biology, ecology, taxonomy

Specialty
Freshwater blooms; algal blooms in reser-
voirs; marine diatoms

**Toxic/Noxious Organisms
Worked With**
Microcystis spp., *Anabaena* spp.

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
5

Where Worked
Argentina, South America

**Regional/International
Program Participation**

Languages
Spanish, English

Citizenship
Argentina

Negri, Rubén Mario

Research Scientist
Instituto Nacional de Investigación
y Desarrollo Pesquero (INIDEP)
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3099
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Fax: 54-23-86-1292
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Degrees
Licenciado en Ecología

General Expertise
Biology, ecology, taxonomy

Specialty
Harmful algal blooms and related environ-
mental conditions; community structure of
marine phytoplankton in shelf areas

**Toxic/Noxious Organisms
Worked With**
Alexandrium excavatum, *Gyrodinium* cf.
aureolum, *Phaeocystis pouchetti*

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
12

Where Worked
Argentine shelf sea (Southwest Atlantic
Ocean)

**Regional/International
Program Participation**

Languages
Spanish, French, English

Citizenship
Argentina

Argentina

Santinelli, Norma Herminia

Research scientist
Facultad de Ciencias Naturales
Sede Trelew
Universidad de la Patagonia
Belgrano 504
2^{da} PISO 9100
Argentina

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Email:

Degrees
Oceanógrafa

General Expertise
Biology, ecology, taxonomy

Specialty
PSP and DSP in shellfish

**Toxic/Noxious Organisms
Worked With**
Alexandrium excavatum, *Dinophysis acu-
minata*, *Prorocentrum lima* (recently
found in Argentina)

Toxins Worked With
PSP

**Years of Experience with
Harmful Algae/Biotoxins**
5

Where Worked
Patagonia

**Regional/International
Program Participation**
Joint national shellfish monitoring

Languages
English

Citizenship

Australia

Arnott, Graeme H.

Senior research scientist
Marine Science Laboratories
Department of Conservation
and Natural Resources
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Australia

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Degrees
B.Sc., Ph.D.

General Expertise
Ecology, fisheries, aquaculture, management

Specialty
Biotoxin surveillance of Victorian waters; monitoring toxic algae and biotoxins in shellfish; public health protection; export requirements

Toxic/Noxious Organisms Worked With
Alexandrium tamarense, *Alexandrium catenella*, *Gymnodinium catenatum*, *Gymnodinium breve*, *Pseudonitzschia*, *Pseudodelicatissima*

Toxins Worked With
PSP, domoic acid, brevetoxins

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
Victoria, Australia

Regional/International Program Participation
Toxic Algal Working Group, Australian Shellfish Sanitation Advisory Committee

Languages
English

Citizenship
Australia

Blackburn, Susan Irene

Research scientist
CSIRO Division of Fisheries
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Australia

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Degrees
B.Sc., Ph.D.

General Expertise
Biology, genetics

Specialty
Life histories, population genetics, and molecular genetics of toxic algae; environmental factors affecting toxicity

Toxic/Noxious Organisms Worked With
Gymnodinium catenatum, *Alexandrium* spp., toxic cyanobacteria (*Nodularia spumigena*, *Microcystis aeruginosa*, *Anabaena circinalis*)

Toxins Worked With
Paralytic shellfish toxins, microcystins, nodularia

Years of Experience with Toxic Algae/Biotoxins
8

Where Worked
Australia, Southeast Asia

Regional/International Program Participation
IOC Panel on Harmful Algal Blooms

Languages
English

Citizenship
Australia

Bolch, Christopher J.S.

Experimental scientist
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Degrees
B.Sc.

General Expertise
Biology, ecology, genetics, taxonomy, physiology

Specialty
Ballast water issues; dinoflagellate taxonomy (cysts and motile stages); design of field monitoring programs; population and molecular genetics of toxic algae; laboratory studies and axenic culture of toxic dinoflagellates and toxic cyanobacteria

Toxic/Noxious Organisms Worked With
Alexandrium spp., *G. catenatum*, *Microcystis aeruginosa*, *Anabaena circinalis*, *Nodularia spumigena*

Toxins Worked With
PSP, microcystins

Years of Experience with Toxic Algae/Biotoxins
8

Where Worked
Australasia

Regional/International Program Participation

Languages
English

Citizenship
Australia

Borowitzka, Michael Armin

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School of Biological
and Environmental Sciences
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Australia

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Degrees
B.Sc., Ph.D.

General Expertise
Biology, ecology, physiology

Specialty
Culture and physiology of toxic algae

Toxic/Noxious Organisms Worked With
Gymnodinium, *Alexandrium*, *Trichodesmium*, *Nitzschia*

Toxins Worked With
Saxitoxin

Years of Experience with Toxic Algae/Biotoxins
>10

Where Worked
Australia

Regional/International Program Participation

Languages
English, German

Citizenship
Austria

Brown, Raymond Kinnear

Manager, Shellfish Program
Health Branch
Department of Community
and Health Services
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Hobart, Tasmania 7001
Australia

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Degrees
B.Sc.

General Expertise
Aquaculture, public health, management

Specialty
PSP toxin analysis using HPLC; management of blooms impacting shellfish areas

Toxic/Noxious Organisms Worked With
Gymnodinium catenatum, Pacific oysters, blue mussels

Toxins Worked With
PSP toxin groups

Years of Experience with Toxic Algae/Biotoxins
7

Where Worked
Southeast Australia

Regional/International Program Participation

Languages
English, French

Citizenship
Australia

Cannon, Jean Agnes

Director
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33 Pirie Street
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Australia

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Degrees
B.Sc.

General Expertise
Ecology, aquaculture, quality assurance

Specialty
Working on *Alexandrium minutum* in the Port Adelaide River; field ecology and culture studies

Toxic/Noxious Organisms Worked With
Alexandrium minutum

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
South Australia

Regional/International Program Participation

Languages
English

Citizenship
Australia

Australia

Capra, Michael F.

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Center for Biological
Population Management
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Degrees
B.Sc., M.Sc., Ph.D.

General Expertise
Toxicology, public health, medicine

Specialty
Physiological and pharmacological effects of ciguatera on mammals and fish with particular interest in the effects of CTX on peripheral nerves; ecology of ciguatera vectors

Toxic/Noxious Organisms Worked With
Gambierdiscus toxicus

Toxins Worked With
Ciguatera

Years of Experience with Toxic Algae/Biotoxins
8

Where Worked
South Pacific

Regional/International Program Participation

Languages
English

Citizenship
Australia

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Degrees
Ph.D.

General Expertise
Biology, ecology, physiology

Specialty
Freshwater cyanobacterial blooms and population development

Toxic/Noxious Organisms Worked With
Anabaena, *Microcystis*, *Nodularia*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
20

Where Worked
Australia, Africa, Europe

Regional/International Program Participation

Languages
English

Citizenship
United Kingdom, Australia

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Degrees
B.Sc., M.Sc., Ph.D.

General Expertise
Biology, ecology, taxonomy, aquaculture, management, monitoring

Specialty
Taxonomy of harmful algal species (including cysts); establishment of PSP monitoring programs for *Gymnodinium catenatum*; algal bloom monitoring for fish farms; algal blooms and eutrophication; introduction of ballast water quarantine regulations to minimize transfer of dinoflagellates via shipping

Toxic/Noxious Organisms Worked With
Gymnodinium catenatum, *Alexandrium minutum*, *Alexandrium catenella*, *Alexandrium tamarense*, *Pseudonitzschia pseudodelicatissima/multiseriata*, *Dinophysis acuminata*, *Dinophysis fortii*

Toxins Worked With
PSP

Years of Experience with Toxic Algae/Biotoxins
7

Where Worked
Australia, Indo-West Pacific

Regional/International Program Participation
IOC HAB program: SCOR/UNESCO Working Group on Physiological Ecology of HAB; IOC/WESTPAC HAB Program

Languages
English, French, German, Dutch

Citizenship
Australia

Jeffrey, Shirley Winifred

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Degrees
M.Sc., Ph.D.

General Expertise
Biology, ecology, physiology, aquaculture

Specialty
Algal culture; general physiology and ecology; mariculture

Toxic/Noxious Organisms Worked With
Dinoflagellates, raphidophytes, prymnesiophytes

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
20

Where Worked
Australia

Regional/International Program Participation
SCOR WG 78

Languages
English

Citizenship
Australia

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Queensland Agricultural Biotechnology Center
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Degrees
B.Sc., Ph.D.

General Expertise
Biology, chemistry, ecology, physiology, toxicology, fisheries, public health, management

Specialty
Ciguatera (fish poisoning); natural product chemistry; marine toxin detection; pharmacology; diagnosis of ciguatera

Toxic/Noxious Organisms Worked With
Benthic dinoflagellates, ciguateric fish

Toxins Worked With
Ciguatera, maitotoxin, gambiertoxins, cooliatotoxin

Years of Experience with Toxic Algae/Biotoxins
16

Where Worked
Australia, France, Germany, Central Pacific, United States

Regional/International Program Participation

Languages
English

Citizenship
Australia

Soong, Foong San

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South Australian Health Commission
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Australia

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Degrees
M.B.B.S., M.Ph., Dip. Anthropology

General Expertise
Public health, management

Specialty
Monitoring programs on the health effects of algal blooms; review of the literature; providing advice on management options

Toxic/Noxious Organisms Worked With
Microcystis, *Nodularia*, *Anabaena*

Toxins Worked With
Microcystins, nodularians, anatoxins

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
Australia, River Murray Basin

Regional/International Program Participation
Australian state and regional programs

Languages
English, Chinese, Malay

Citizenship
Australia

Australia

Stanley, Simon O.

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Department of Primary Industry
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Degrees
B.Sc., Ph.D.

General Expertise
Fisheries, aquaculture, management

Specialty
Management of algal blooms

**Toxic/Noxious Organisms
Worked With**
Gymnodinium catenatum

Toxins Worked With
Paralytic shellfish toxins

**Years of Experience with
Toxic Algae/Biotoxins**
8

Where Worked
Scotland, Middle East, Southeast Asia

**Regional/International
Program Participation**

Languages
English

Citizenship
Australia, United Kingdom

Tseng, Wen-Young

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Email:

Degrees
Ph.D.

General Expertise
Biology, aquaculture

Specialty
Red tide affects on the mass mortality of
shellfish in Taiwanese coastal waters

**Toxic/Noxious Organisms
Worked With**
Shellfish

Toxins Worked With
Red tide species

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Taiwan

**Regional/International
Program Participation**

Languages
Chinese, English, Japanese

Citizenship
Australia

Turczynowicz, Leonid

Scientist
Health Commission
Public and Environmental
Health Services
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Degrees
B.S., M.S.

General Expertise
Chemistry, toxicology, public health, mi-
crobiology

Specialty
Health effects of cyanobacteria; immu-
notoxic testing strategies; toxicology of
cyanobacteria

**Toxic/Noxious Organisms
Worked With**
Anabaena, Microcystis

Toxins Worked With
Microcystins

**Years of Experience with
Toxic Algae/Biotoxins**
3

Where Worked
South Australia

**Regional/International
Program Participation**
NHMRC

Languages
Russian, English

Citizenship
Australia

Addendum

Australia

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Professor, Deputy Vice
Chancellor
University of Adelaide
Adelaide, South Australia 5005
Australia

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Telex:
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Email:

Degrees
B.Sc., Ph.D., D. Sc.

General Expertise
Toxicology, public health, medicine,
vet. medicine

Specialty
Health effects of toxic cyanobacteria
(human health)

**Toxic/Noxious Organisms
Worked With**
Microcystis, Anabaena,
Cylindrospermopsis

Toxins Worked With
Microcystin, cylindrospermopsin, PSP

**Years of Experience with
Toxic Algae/Biotoxins**
20

Where Worked
Australia

**Regional/International
Program Participation**
Some cooperation with Thailand

Languages
English

Citizenship
Australia

Jones, Gary John

Principal Research scientist
CSIRO Division of Water
Resources
PMB 3
Griffith, NSW 2680
Australia

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Degrees
B.Sc. (Hono.), Ph.D.

General Expertise
Biology, chemistry, ecology,
physiology

Specialty
Ecology, biochemistry and physiology
of toxic cyanobacteria

**Toxic/Noxious Organisms
Worked With**
Microcystis, Anabaena, Nodularia,
Cylindrospermopsis

Toxins Worked With
Microcystin, nodularin, PSP

**Years of Experience with
Toxic Algae/Biotoxins**
6

Where Worked
Australia

**Regional/International
Program Participation**
Australian programs funded by CSIRO
and grants

Languages
English

Citizenship
Australia

Neilan, Brett Anthony

Research scientist
University of New South Wales
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Sydney, NSW 2052
Australia

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Degrees
Ph.D., B.App.Sc.

General Expertise
Genetics, taxonomy, toxicology

Specialty
Identification of cyanobacterial strains
involved in toxic bloom events using
molecular genetic approaches

**Toxic/Noxious Organisms
Worked With**
Microcystis, Anabaena, Nodularia

Toxins Worked With
Microcystin, nodularin, saxitoxin

**Years of Experience with
Toxic Algae/Biotoxins**
4

Where Worked
Australia (International culture
collections)

**Regional/International
Program Participation**
Australian Research Council, Sydney
Water, CSIRO

Languages
English

Citizenship
Australia

Belgium

Belgium

Braekman, Jean-Claude

Professor
Laboratory of Bio-organic Chemistry
Faculty of Sciences
University of Brussels
50 Avenue F.D. Roosevelt
B-1050 Brussels
Belgium

Telephone: 32-2-650-2961
Telex:
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Degrees
Ph.D.

General Expertise
Chemistry

Specialty
DSP toxin analysis by fluorescent HPLC

Toxic/Noxious Organisms Worked With
Prorocentrum sp., *Dinophysis* sp., mussels

Toxins Worked With
Okadaic acid, DTX-1

Years of Experience with Toxic Algae/Biotoxins
4

Where Worked
Europe

Regional/International Program Participation
EC BCR intercomparison program
Languages
French, English

Citizenship
Belgium

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Degrees
Ph.D.

General Expertise
Biology, ecology, physiology, toxicology, fisheries, aquaculture, public health, economics

Specialty
Oceanography, fisheries, aquaculture background; leader of program on HAB and on intoxication/decontamination exercises

Toxic/Noxious Organisms Worked With
Prorocentrum lima, *Gymnodinium catenatum*, *Alexandrium* spp., mussels, clams, shrimps, fish larvae

Toxins Worked With
DSP, PSP

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
Europe

Regional/International Program Participation
E.C. FAR research program on HABs; E.C. AIR proposal

Languages
French, Dutch, English, Spanish

Citizenship
Belgium

Pillet, Stephane

Research scientist
Laboratory of Biological Oceanography and Aquaculture
Faculty of Sciences, CP 160/19
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Belgium

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Email: ghouden@resulb.ulb.ac.be

Degrees
Lic. Sc. Zool.

General Expertise
Biology, chemistry, ecology, toxicology, physiology

Specialty
Toxin uptake by molluscs during contamination experiments and decontamination; toxic algal culture; toxin HPLC analyses

Toxic/Noxious Organisms Worked With
Prorocentrum lima, mussels

Toxins Worked With
DSP, OA, DTX

Years of Experience with Toxic Algae/Biotoxins
2

Where Worked
Europe

Regional/International Program Participation

Languages
French, English

Citizenship
Belgium

Sohet, Karine

Research scientist
Laboratory of Biological Oceanography and Aquaculture
Faculty of Sciences, CP 160/19
University Libre de Brussels
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Belgium

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Telex: 23069 unilib
Fax: 32-2-650-3595
Email: ghouden@resulb.ulb.ac.be

Degrees
Ir.

General Expertise
Biology, ecology, chemistry, taxonomy, toxicology, physiology, aquaculture

Specialty
Algal culture and *in vitro* toxin production; toxin HPLC analysis; toxin uptake by invertebrates and fishes

Toxic/Noxious Organisms Worked With
Prorocentrum lima, *Gymnodinium catenatum*, *Alexandrium*, mussels, shrimp, fish larvae

Toxins Worked With
DSP, PSP

Years of Experience with Toxic Algae/Biotoxins
5

Where Worked
Europe

Regional/International Program Participation
E.C. FAR research program on HABs

Languages
French, English

Citizenship
Belgium

Brazil

Azevedo, Sandra M. F. Oliveira

Associate professor
Núcleo de Pesquisas
de Produtos Naturais
CCS Bloco H
Universidade Federal do Rio de Janeiro
Ilha do Fundão
Rio de Janeiro 21949-590
Brazil

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Telex:
Fax: 55-021-2703883
Email: azevedo@fiocruz

Degrees Ph.D.

General Expertise Biology, ecology

Specialty

Occurrence, distribution, and toxin production by cyanobacteria species that are found in Brazilian fresh and brackish water bodies; cyanobacteria culture collection; purification and characterization of microcystins

Toxic/Noxious Organisms Worked With

Microcystis aeruginosa, *Anabaena flos aquae*, *Synechocystis* sp., *Oscillatoria* sp., *Cyanobacteria* sp.

Toxins Worked With Hepatotoxins, microcystins

Years of Experience with Toxic Algae/Biotoxins 7

Where Worked

Brazilian freshwater and brackish water bodies, mainly in southeast and south Brazilian regions

Regional/International Program Participation

Languages

Portuguese, English

Citizenship Brazil

Garcia, Virginia Maria Tavano

Research scientist and lecturer
Dept. de Oceanografia
Universidade do Rio Grande
FURG C.P. 474
96201-900 Rio Grande, R.S.
Brazil

Telephone: 55-532-302000 ext.28
Telex:
Fax: 55-532-302126
Email: BITNET: docvmtg@brfurg

Degrees B.Sc., Ph.D.

General Expertise Biology, ecology, physiology

Specialty

Phytoplankton culture; physiology of bloom-forming species in the English Channel; isolation of toxic dinoflagellate species from the southern Brazilian coast

Toxic/Noxious Organisms Worked With *Gyrodinium* f. *aureolum*, *Dinophysis*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins 4

Where Worked Europe, South America

Regional/International Program Participation International cooperation (South America) with Uruguay and Argentina

Languages Portuguese, English

Citizenship Brazil

Odebrecht, Clarisse

Research scientist
Departamento de Oceanografia
Fundação Universidade do Rio Grande (FURG)
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96200-900, Rio Grande, RS
Brazil

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Degrees Licens. Biology, Ph.D.

General Expertise Biology, ecology, taxonomy

Specialty

Marine phytoplankton, including HAB species; formation and dispersion of blooms in relation to oceanographic and other environmental conditions; species identification

Toxic/Noxious Organisms Worked With *Dinophysis*, *Prorocentrum*, *Scrippsiella*, *Noctiluca*, *Mesodinium*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins 2

Where Worked Southern Brazil

Regional/International Program Participation

Languages Portuguese, Spanish, English, German

Citizenship Brazil

Pereira, Denise Navas

Manager
CETESB/Divisão
de Análises Hidrobiológicas
Av. Prof. Frederico Hermann, Jr., 345
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Brazil

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Telex: 55-1183053
Fax: 55-11-813-0227
Email: nah@brctesb

Degrees Ph.D.

General Expertise Ecology, management

Specialty

Management of hydrobiological laboratory that examines samples during bloom events in both fresh and marine waters

Toxic/Noxious Organisms Worked With *Anabaena*, *Oscillatoria*, *Microcystis*, *Gymnodinium*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins 15

Where Worked Southeast coast of Brazil

Regional/International Program Participation

Languages English, Spanish, Portuguese

Citizenship Brazil

Brazil

Yunes, João Sarkis

Research scientist and lecturer
Unidade de Pesquisas
em Cianobactérias
Departamento de Química
Fundação Universidade do Rio Grande
Caixa Postal 474
96.201-900 Rio Grande do Sul
Brazil

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Fax: 0055-532-329716
Email: BITNET: dqmsarks@brfurg.bitnet

Degrees B.S., M.S., Ph.D.

General Expertise Biology, chemistry, physiology, toxicology, monitoring, N₂ fixation

Specialty

Monitoring of fresh and brackish estuarine waters for HABs; relationship between nutrients and physical factors and the occurrence and growth of HABs; toxicity tests, including mouse bioassay; growth of isolated organisms in laboratory; identification and maintenance of culture collection of toxin- and non-toxin producing genera of cyanobacteria

Toxic/Noxious Organisms Worked With *Microcystis aeruginosa*

Toxins Worked With Microcystin

Years of Experience with Toxic Algae/Biotoxins 2

Where Worked Program to determine the toxicity of the cyanophyta species from Guarapiranga reservoir, São Paulo

Regional/International Program Participation International cooperation with University of Dundee, Scotland in EEC-supported project

Languages Spanish, English, Italian, Portuguese

Citizenship Brazil

Zagatto, Pedro Antonio

Biologist
CETESB
Setor de Toxicologia Aquática
e Ensaios Biológicos
Av. Prof. Frederico Hermann, Jr., 345
05489-900, São Paulo
Brazil

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Fax: 55-011-813-0227
Email: BITNET: nahe@brctesb.bitnet

Degrees M.S.

General Expertise Toxicology, aquatic toxicology

Specialty

Toxicity evaluation of algal blooms and isolated cells of cyanophyta cultured in laboratory; effects measured in mouse and aquatic organisms (freshwater)

Toxic/Noxious Organisms Worked With *Microcystis aeruginosa*, *M. viridis*, *Oscillatoria quadripunctulata*, *O. princeps*, *Pseudoanabaena muscicola*, *Cylindrospermopsis raciborskii*

Toxins Worked With Hepatotoxin, neurotoxin, citotoxin

Years of Experience with Toxic Algae/Biotoxins 4

Where Worked State of São Paulo

Regional/International Program Participation Program to determine the toxicity of the cyanophyta species from Guarapiranga reservoir, São Paulo

Languages English and French

Citizenship Brazil

Brunei

**De Silva,
M.W. Ranjith Nirmal**

Fisheries officer
Marine Ecosystems Unit
Department of Fisheries
Fisheries Station Muara
Muara 4069
Brunei Darussalam

Telephone: 673-2-770067
Telex:
Fax: 673-2-770065
Email:

Degrees
B.Sc., Ph.D.

General Expertise
Management

Specialty
Assisted in developing red tide action plan
for Brunei Darussalam; officer-in-charge
of red tide program

**Toxic/Noxious Organisms
Worked With**
Pyrodinium bahamense var. *compressum*

Toxins Worked With
Saxitoxins, goniotoxins, and neo-
goniotoxins

**Years of Experience with
Toxin Algae/Biotoxins**
6

Where Worked
Southeast Asia

**Regional/International
Program Participation**
ASEAN-CANADA

Languages
English, Sinhalese, basic Malay

Citizenship
Sri Lanka

**Mohd. Salleh,
Haji Abdul Halidi**

Head, Marine Fisheries Section
Fisheries Department
Ministry of Industry
and Primary Resources
P.O. Box 2161
Bandar Seri Begawan 1921
Brunei Darussalam

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Fax: 02-242069
Email:

Degrees
B.Sc.

General Expertise
Fisheries, management

Specialty
Management of fisheries

**Toxic/Noxious Organisms
Worked With**
Pyrodinium bahamense var. *compressum*

Toxins Worked With

**Years of Experience with
Toxin Algae/Biotoxins**
6

Where Worked
Brunei

**Regional/International
Program Participation**
Management and Training Workshop,
Brunei, 1989; International Symposium on
Red Tides, Takamatsu, Japan, 1987; Toxic
Dinoflagellate Conference in Lund, Swe-
den, 1989

Languages
English, Malay

Citizenship
Brunei

Bulgaria

Moncheva, Snejana

Research scientist
Institute of Oceanology
Bulgarian Academy of Sciences (BAS)
Varna 9000
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Bulgaria

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Fax: 00359-052-774-256
Email: OMNET: z.belberov

Degrees

General Expertise

Biology, ecology, taxonomy

Specialty

Taxonomy and ecology of Black Sea
blooming phytoplankton species; hypoxia
mechanism

Toxic/Noxious Organisms

Worked With

Toxins Worked With

Years of Experience with

Toxic Algae/Biotoxins

14

Where Worked

Black Sea

Regional/International

Program Participation

CoMSBlack

Languages

English, Russian

Citizenship

Bulgaria

Cameroon

Folack, Jean

Director
Research Centre for Fisheries
and Oceanography (RCFO)
P.M.B. 77 Limbe
Cameroon

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Email:

Degrees

Ph.D.

General Expertise

Biology, ecology, fisheries

Specialty

Ecology of algae identification; production
of dynamic and temporal evolution; hy-
drobiology

Toxic/Noxious Organisms

Worked With

Dinoflagellates, Sardinella, tilapia

Toxins Worked With

Years of Experience with

Toxic Algae/Biotoxins

9

Where Worked

Gulf of Fos; Mediterranean Sea; Cameroon

Regional/International

Program Participation

COMARF project of UNESCO

Languages

French

Citizenship

Cameroon

Canada

Albright, Lawrence

Director
Institute for Aquaculture Research
Simon Fraser University
Burnaby, British Columbia V5A 1S6
Canada

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Degrees

B.Sc., M.S., Ph.D.

General Expertise

Physiology, fisheries, aquaculture, management

Specialty

Pathology of fish mortality caused by *Chaetoceros* and *Heterosigma akashiwo*

Toxic/Noxious Organisms Worked With

Chaetoceros, *Heterosigma akashiwo*, fin-fish (especially salmonids)

Toxins Worked With

Heperoxide and hydroxyl radicals

Years of Experience with Toxic Algae/Biotoxins

7

Where Worked

Canada (West Coast)

Regional/International Program Participation

Languages

English, French

Citizenship

Canada

Babiuk, Timothy Stephen

Senior microbiologist
Inspection Branch
Department of Fisheries and Oceans
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Burnaby, B.C. V5M 4L9
Canada

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Fax: 604-666-4440
Email:

Degrees

B.Sc.

General Expertise

Fisheries, management, microbiology

Specialty

Monitoring of commercial samples of marine bivalve molluscs and crustacea for the presence of marine toxins of public health significance; evaluation of laboratories providing toxin testing

Toxic/Noxious Organisms Worked With

Alexandrium and *Pseudonitzschia pungens*

Toxins Worked With

PSP saxitoxins and domoic acids

Years of Experience with Toxic Algae/Biotoxins

8

Where Worked

Canadian Pacific coast, Southeast Asia

Regional/International Program Participation

Regulatory monitoring in Canadian Pacific Region; evaluation of marine toxin laboratories

Languages

English

Citizenship

Canada

Bates, Stephen S.

Research scientist
Department of Fisheries and Oceans
Gulf Fisheries Center
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Moncton, New Brunswick E1C 9B6
Canada

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bates@gfc.dfo.ca

Degrees

B.S., M.A., Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Physiological ecology of marine phytoplankton, especially *Pseudonitzschia pungens* f. *multiseriata* and *P. pungens* f. *pungens*; use of immunofluorescence assays to discriminate toxic and nontoxic forms of *P. pungens*; effects of bacteria on domoic acid production; isolation and culture (batch and chemostat) of *P. pungens*

Toxic/Noxious Organisms Worked With

Pseudonitzschia pungens

Toxins Worked With

Domoic acid

Years of Experience with Toxic Algae/Biotoxins

6

Where Worked

Eastern Canada

Regional/International Program Participation

ICES WG on Phytoplankton Ecology; SCOR WG on the Physiological Ecology of HABs; IOS Programme on HABs; Phycotoxins WG (Department of Fisheries and Oceans, Canada)

Languages

English, French

Citizenship

Canada/United States

Black, Edward A.

Head, Aquatic Studies
Aquaculture and Commercial
Fisheries Branch
Ministry of Agriculture, Fisheries,
and Food
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Victoria, British Columbia V8W 2Z7
Canada

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eblack@galaxy.gov.bc.ca

Degrees

B.Sc., M.Sc.

General Expertise

Biology, ecology, toxicology, fisheries, aquaculture, management, bloom counter-measures and effects remediation

Specialty

Interaction between algal blooms and aquaculture production with a focus on how to minimize the effects of blooms on culture operations

Toxic/Noxious Organisms Worked With

Heterosigma sp., *Alexandrium* sp., *Chaetoceros* sp., *Gyrodinium*, *Chrysochromulina*, *Chattonella*, *Microcystis* sp., *Anabaena* sp.

Toxins Worked With

Heterosigma toxin and *Chaetoceros* effects

Years of Experience with Toxic Algae/Biotoxins

10

Where Worked

North America and the U.K.

Regional/International Program Participation

British Columbia Plankton Watch

Languages

English

Citizenship

Canada

Canada

Carver, Claire E.A.

Researcher
Mallet Research Services
Department of Fisheries and Oceans
P.O. Box 550
Halifax, Nova Scotia B3J 2S7
Canada

Telephone: 902-429-5072
Telex:
Fax: 902-429-5072
Email:

Degrees

M.Sc.

General Expertise

Biology, taxonomy, aquaculture, monitoring

Specialty

Coordinating phytoplankton monitoring program for shellfish growers in Nova Scotia; phytoplankton ecology/ physiology; population dynamics of algal species; accumulation and depuration of algal toxins by shellfish

Toxic/Noxious Organisms Worked With

Alexandrium fundyense, *Dinophysis norvegica*, *Dinophysis acuminata*, *Mytilus edulis*, *Placopecten magellanicus*, *Ostrea edulis*

Toxins Worked With

PSP, DSP

Years of Experience with Toxic Algae/Biotoxins

5

Where Worked

East Coast of Canada

Regional/International Program Participation

Nova Scotia Phytoplankton Monitoring Program, Phycotoxin Information Exchange Group (Halifax)

Languages

English, French

Citizenship

Canada

Cembella, Allan Douglas

Research officer
Institute for Marine Biosciences
National Research Council
1411 Oxford St.
Halifax, Nova Scotia B3H 3Z1
Canada

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cembella@imb.lan.nrc.ca

Degrees

B.Sc., Ph.D.

General Expertise

Biology, chemistry, genetics, taxonomy, physiology, fisheries, aquaculture

Specialty

Chemotaxonomy of red tide dinoflagellates; toxin transfer in marine food web; toxic cyst distribution and identification; morphotaxonomy of PSP toxin-producing dinoflagellates; population dynamics of red tide species; kinetics of PSP and DSP toxins in shellfish, zooplankton, and fin-fish

Toxic/Noxious Organisms Worked With

Alexandrium spp., *Dinophysis* spp., *Prorocentrum* spp., *Pyrodinium bahamense*, *Mytilus edulis*, *Mya arenaria*, *Homarus americanus*, *Placopecten magellanicus*, *Argopecten irradians*, copepods, herring, and capelin larvae

Toxins Worked With

PSP, DSP

Years of Experience with Toxic Algae/Biotoxins

14

Where Worked

North America; Southeast Asia

Regional/International Program Participation

Phycotoxin Working Group; CIDA/ASEAN CPMS-II Program on Red Tides; IOC/ICES; SCOR WG on Physiological Ecology of Harmful Algal Blooms

Languages

English, French, German

Citizenship

Canada

Canada

Chiang, Rudy

Shellfish and aquaculture
inspection specialist
Fish Inspection Branch
Department of Fisheries and Oceans
2250 S. Boundary Rd.
Burnaby, B.C. V5M 4L9
Canada

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Email:

Degrees
B.Sc.

General Expertise
Fisheries, management, regulation, fish
processing

Specialty
Shellfish management programs for health
and safety; Canadian Shellfish Sanitation
Program; toxicity monitoring; regulatory
responses; HACCP approach to program
management

**Toxic/Noxious Organisms
Worked With**
Bivalve molluscs and Dungeness crabs

Toxins Worked With
PSP, ASP, domoic acid

**Years of Experience with
Toxic Algae/Biotoxins**
12

Where Worked
Pacific coast of British Columbia, Canada

**Regional/International
Program Participation**
Biototoxin monitoring program on Pacific
coast of Canada: 1993 FAO/DAINDA
Regional Workshop

Languages
English, Chinese

Citizenship
Canada

Desbiens, Michel

Microbiologist
Research Division
Ministère de l'Agriculture
Pêcheries et Alimentation du Québec
96 montée Sandy Beach
Gaspé, Québec G0C 1R0
Canada

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Fax: 418-368-8400
Email:

Degrees
B.Sc.

General Expertise
Biology, fisheries, aquaculture

Specialty
PSP toxin transfer in the food web; im-
pacts of toxins on aquaculture; marine and
food microbiology

**Toxic/Noxious Organisms
Worked With**
Alexandrium (in bivalves and crustaceans)

Toxins Worked With
PSP

**Years of Experience with
Toxic Algae/Biotoxins**
5

Where Worked
Québec (Canada)

**Regional/International
Program Participation**
Canadian National Monitoring Program on
Toxic Algae

Languages
French, English

Citizenship
Canada

Doncaster, David R.

Area inspection chief
Inspection Laboratory
Department of Fisheries and Oceans
P.O. Box 270
Blacks Harbour, N.B. E0G 1H0
Canada

Telephone: 506-456-3376
Telex:
Fax: 506-456-3818
Email:

Degrees
B.Sc.

General Expertise
Biology, chemistry, public health, manage-
ment

Specialty
Managing openings and closures of har-
vest areas

**Toxic/Noxious Organisms
Worked With**
Clams, mussels, oysters, scallops

Toxins Worked With
PSP, DSP, domoic acid

**Years of Experience with
Toxic Algae/Biotoxins**
15

Where Worked
Atlantic Canada

**Regional/International
Program Participation**

Languages
English, French

Citizenship
Canada

Douglas, Donald J.

Research scientist
Institute for Marine Biosciences
National Research Council
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Halifax, Nova Scotia B3H 3Z1
Canada

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Telex:
Fax: 902-426-9413
Email: INTERNET:
donald@imb.lan.nrc.ca

Degrees
Ph.D.

General Expertise
Biology, microbiology

Specialty
Pseudonitzschia field and lab research re-
lated to control of toxin production, influ-
ence of bacteria, and molecular biology

**Toxic/Noxious Organisms
Worked With**
Pseudonitzschia, *Dinophysis*

Toxins Worked With
Domoic acid, okadaic acid, DTX1

**Years of Experience with
Toxic Algae/Biotoxins**

Where Worked
East coast of Canada

**Regional/International
Program Participation**

Languages
English, French

Citizenship
Canada

Forbes, J. Roderick

Biologist
Institute of Ocean Sciences
Department of Fisheries and Oceans
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Sidney, British Columbia V8L 4B2
Canada

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Fax: 1-604-363-6479
Email: INTERNET:rod@ios.bc.ca

Degrees
B.Sc., M.Sc.

General Expertise
Biology, physics, ecology, fisheries,
aquaculture, management

Specialty
Bloom dynamics; oceanography; aquacul-
ture site assessment; risk management;
pathways for toxins through the marine
food web; program management; research
strategies and policy review

**Toxic/Noxious Organisms
Worked With**
Pseudonitzschia sp., harmful *Chaetoceros*
sp., *Heterosigma*, *Alexandrium* sp.

Toxins Worked With
Domoic acid

**Years of Experience with
Toxic Algae/Biotoxins**
4

Where Worked
Canada

**Regional/International
Program Participation**
National Phycotoxins Working Group;
Asia Pacific Economic Cooperation For-
um- Marine Conservation Working Group
(Technical Authority for Red Tide/Toxic
Algae Project)

Languages
English

Citizenship
Canada

Geraci, Joseph Robert

Professor
Department of Pathology
Ontario Veterinary College
University of Guelph
Guelph, Ontario N1G 2W1
Canada

Telephone: 519-823-8800 ext. 4635
Telex:
Fax: 519-824-5930
Email:

Degrees
V.M.D., Ph.D.

General Expertise
Physiology, veterinary medicine, marine
mammals

Specialty
Factors underlying natural mortality of
marine mammals: whales, dolphins and
seals exposed to algal toxins in the food
chain; mechanisms leading to illness and
fatal poisonings by these toxins

**Toxic/Noxious Organisms
Worked With**
Whales, dolphins, seals

Toxins Worked With
Saxitoxin, brevetoxin

**Years of Experience with
Toxic Algae/Biotoxins**
7

Where Worked
Northwest Atlantic, Mid-Atlantic

**Regional/International
Program Participation**

Languages
English, French

Citizenship
United States

Canada

Gervais, Adrien J.

Chief, Scientific and Technical Program
Inspection Branch
Department of Fisheries and Oceans
200 Kent Street
Ottawa, Ontario K1A 0E6
Canada

Telephone: 613-990-0148
Telex:
Fax: 613-990-4668
Email:

Degrees
B.Sc.

General Expertise
Public health, program management

Specialty
Establishment and management of monitoring programs for the detection of marine biotoxins in shellfish

Toxic/Noxious Organisms Worked With

Toxins Worked With
PSP, domoic acid

Years of Experience with Toxic Algae/Biotoxins
16

Where Worked
Canada

Regional/International Program Participation

Languages
English, French

Citizenship
Canada

Gilgan, Michael W.

Head, Chemistry Section
Scientific and Technical Services Laboratory
Department of Fisheries and Oceans
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Canada

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michael=w@gilgan@insp%dfosf@sfnet.dfo.ca

Degrees
B.Sc., M.A., Ph.D.

General Expertise
Chemistry, toxicology, fisheries

Specialty
Isolation and identification of domoic acid in mussels; monitoring programs; identifying DTX1 (DSP); monitoring for DSP

Toxic/Noxious Organisms Worked With
Mussels (blue and red), softshell clams, scallops, lobster

Toxins Worked With
Domoic acid, paralytic shellfish toxins, diarrhetic shellfish toxins

Years of Experience with Toxic Algae/Biotoxins
28

Where Worked
Atlantic Canada

Regional/International Program Participation
DFO-Canada Enhanced Shellfish Monitoring Program

Languages
English, French, German

Citizenship
Canada

Graham, David Laurence

Inspection microbiologist
Inspection Services Branch
Department of Fisheries and Oceans
2250 S. Boundary Rd.
Burnaby, British Columbia V5M 4L9
Canada

Telephone: 604-666-7997
Telex:
Fax: 604-666-4440
Email:

Degrees
B.Sc.

General Expertise
Toxicology, fisheries, management, public health, food microbiology

Specialty
Management of marine toxin extraction and bioassay laboratories for federal regulatory agencies

Toxic/Noxious Organisms Worked With
Bivalve molluscs and marine crustaceans

Toxins Worked With
PSP, ASP

Years of Experience with Toxic Algae/Biotoxins
28

Where Worked
Canadian Pacific coast

Regional/International Program Participation
Canadian Pacific region marine toxins monitoring program

Languages
English

Citizenship
Canada

Hancock, Shelly D.

Project coordinator
Nova Scotia Department of Fisheries
1721 Lower Water Street
Halifax, Nova Scotia B3J 2S7
Canada

Telephone: 902-426-8612
Telex:
Fax: 902-426-5342
Email:

Degrees
B.Sc.

General Expertise
Aquaculture, monitoring

Specialty
Toxicity testing of sea and bay scallops; collection of data on PSP, DSP, and domoic acids at various field sites; phytoplankton monitoring programs for aquaculture sites

Toxic/Noxious Organisms Worked With
Placopecten magellanicus, *Mytilus edulis*, *Argopecten irradians*, *Dinophysis* sp.

Toxins Worked With
PSP and DSP

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
Atlantic Canada

Regional/International Program Participation
WG on Harmful Marine Algae (Canada); Phycotoxin Exchange Group (Nova Scotia)

Languages
English

Citizenship
Canada

Haya, Katsuji

Research scientist
Biological Station
Department of Fisheries and Oceans
St. Andrews, New Brunswick E0G 2X0
Canada

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Degrees
B.S.P., Ph.D.

General Expertise
Toxicology

Specialty
Uptake and excretion of PSP toxins and domoic acid in shellfish; effects of PSP toxins and domoic acid in finfish; transport of PSP in the marine food web

Toxic/Noxious Organisms Worked With
Alexandrium fundyense, *Pseudonitzschia pseudo-delicatissima*, scallops, mussels, lobster, mackerel, herring, Atlantic salmon

Toxins Worked With
PSP, domoic acid

Years of Experience with Toxic Algae/Biotoxins
7

Where Worked
Bay of Fundy

Regional/International Program Participation
Phytoplankton WG for DFO Canada; Scotia-Fundy Phycotoxin Advisory Group; IOC-FAO Intergovernmental Panel on HABs

Languages
English

Citizenship
Canada

Hu, Tingmo

Research associate
Institute for Marine Biosciences
National Research Council
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Canada

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Fax: 902-426-9413
Email:

Degrees
Ph.D.

General Expertise
Chemistry

Specialty
Extraction and isolation of toxins; chemical structure elucidation of toxins

Toxic/Noxious Organisms Worked With
Shellfish

Toxins Worked With
DSP and fast-acting toxins

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
East Coast of Canada

Regional/International Program Participation

Languages
English

Citizenship
Canada

Canada

Jellett, Joanne F.

Consultant
Bedford Institute of Oceanography
Department of Fisheries and Oceans
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Canada

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Degrees
B.Sc., Ph.D.

General Expertise
Biology, physiology, toxicology

Specialty
Algal culture, *Alexandrium* spp., *Pseudonitzschia* spp.; toxin assay for PSP (neuroblastoma cell bioassay); domoic acid ELISA; bacteria/phytoplankton interactions

Toxic/Noxious Organisms Worked With
Alexandrium spp., *Pseudonitzschia* spp.

Toxins Worked With
Saxitoxins, domoic acid

Years of Experience with Toxic Algae/Biotoxins
5

Where Worked
Northeast Atlantic

Regional/International Program Participation
DFO Phytotoxin Program

Languages
English, French

Citizenship
Canada

Laycock, Maurice

Research scientist
Institute for Marine Sciences
National Research Council for Canada
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Halifax, Nova Scotia B3H 3Z1
Canada

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Degrees
Ph.D.

General Expertise
Biology, chemistry

Specialty
Chemical analysis of PSP toxins

Toxic/Noxious Organisms Worked With
Alexandrium spp., *Placopecton magellanicus*, *Mytilus edulis*, *Protothaca staminea*

Toxins Worked With
PSP

Years of Experience with Toxic Algae/Biotoxins
7

Where Worked
Nova Scotia

Regional/International Program Participation

Languages
English

Citizenship
Canada

Levasseur, Maurice

Research scientist
Institute Maurice-Lamontagne
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Canada

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Degrees
Ph.D.

General Expertise
Biology, chemistry, ecology, physiology, monitoring

Specialty
Physical control of the distribution of toxic algae; physiology of algae (nitrogen nutrition); dimethyl sulfide production by algae

Toxic/Noxious Organisms Worked With
Alexandrium excavatum

Toxins Worked With
PSP

Years of Experience with Toxic Algae/Biotoxins
5

Where Worked
Gulf of St. Lawrence

Regional/International Program Participation
ICES WG on the Dynamics of Toxic Algal Blooms; DFO Phycotoxins WG

Languages
French, English

Citizenship
Canada

Marr, Julie

Research director
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Canada

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Degrees
B.Sc., Ph.D.

General Expertise
Chemistry

Specialty
Research in the analysis of PSP and DSP toxins using analytical methods such as CE, HPLC, and MS

Toxic/Noxious Organisms Worked With
Prorocentrum lima, scallops

Toxins Worked With
PSP, DSP, domoic acid

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
Canada

Regional/International Program Participation

Languages
English

Citizenship
Canada

Canada

Martin, Jennifer L.

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Canada

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Degrees
B.Sc.

General Expertise
Biology, ecology, fisheries, aquaculture, monitoring

Specialty
Algal species in local waters; baseline data collection, determination of trends and patterns; algae and its implications for salmonid aquaculture, shellfish and traditional fisheries; *Alexandrium fundyense*, *P. pseudodelicatissima*, *Dinophysis* sp.: toxin uptake and excretion in shellfish and finfish; *A. fundyense* resting cysts, study of long-term data sets and environmental factors for trends; laboratory work on various algal species

Toxic/Noxious Organisms Worked With
Alexandrium fundyense, *Pseudonitzschia pseudodelicatissima*, *Dinophysis* sp., softshell clams, blue mussels, sea scallops, herring, salmon

Toxins Worked With
Paralytic shellfish toxins, domoic acid

Years of Experience with Toxic Algae/Biotoxins
14

Where Worked
Bay of Fundy (Eastern Canada)

Regional/International Program Participation

Languages
English, French

Citizenship
Canada

McKenzie, Cynthia Hipp

Research scientist
Ocean Sciences Centre
Memorial University of Newfoundland
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Canada

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Degrees
B.Sc., Ph.D.

General Expertise
Ecology, taxonomy, aquaculture

Specialty
Dinoflagellate dynamics and taxonomy; population dynamics of cold ocean phytoplankton; study of dinoflagellate cysts and their effect on shellfish aquaculture; ecology and population dynamics of toxic and harmful algal species and the aquaculture industry; formation, sedimentation, resuspension, and encystment of toxic dinoflagellate cysts

Toxic/Noxious Organisms Worked With
Alexandrium, *Dinophysis*

Toxins Worked With
PSP, DSP

Years of Experience with Toxic Algae/Biotoxins

Where Worked
United States; Gulf of Mexico, Northwest Atlantic

Regional/International Program Participation
Provincial study of toxic cysts at aquaculture sites; Committee on Toxic and Harmful Algae and Aquaculture, Newfoundland; Newfoundland team leader for toxic phytoplankton--OPEN II; Canadian Centers for Excellence Programme (proposed)

Languages
English

Citizenship
United States

Canada

Mohapatra, Sushil

Research scientist
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Montreal, Quebec H2P 2M6
Canada

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Degrees
Ph.D.

General Expertise
Biology, physiology, fisheries, management

Specialty
Quantitation of okadaic acid, DTX1, DTX2 using ELISA system developed in-house

Toxic/Noxious Organisms Worked With
Algae, shellfish, fish

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
4

Where Worked
India, United States, Canada

Regional/International Program Participation
International and national professional meetings

Languages
English

Citizenship
Canada

Noseworthy, Joyce E.

Regional director
Inspection Branch,
Newfoundland Region
Department of Fisheries and Oceans
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Canada

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Email:

Degrees
B.Sc., M.Sc.

General Expertise
Fisheries, aquaculture, public health, management

Specialty
Management of shellfish monitoring program to assess public health and safety of shellfish; regulation of shellfish harvest and processing

Toxic/Noxious Organisms Worked With
Mussels, scallops, clams

Toxins Worked With
PSP, DSP, domoic acid

Years of Experience with Toxic Algae/Biotoxins

Where Worked
Eastern Canada

Regional/International Program Participation
Canadian shellfish monitoring program

Languages
English, French

Citizenship
Canada

O'Rourke, Tom

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National Research Council
c/o PEI Food Tech Centre
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Canada

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Degrees
B.Sc., B.ed.

General Expertise
Biology, fisheries, aquaculture

Specialty
Causative organism for amnesic shellfish poisoning in PEI, Canada, 1988; mussel clearance rates for ASP

Toxic/Noxious Organisms Worked With
Nitzschia, *Alexandrium*, *Dinophysis*, bi-valves

Toxins Worked With
Domoic acid

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
Atlantic Canada, Ireland

Regional/International Program Participation
IRAP/NRC

Languages
English

Citizenship
Canada

Pan, Youlian

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Department of Biology
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Canada

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Degrees
B.Sc., M.Sc.

General Expertise
Biology, ecology, physiology

Specialty
Marine biology, especially phytoplankton physiology and ecology; photosynthesis; nutrient dynamics; cellular chemical composition and toxin production of *Pseudonitzschia pungens* f. *multiseriata* and *Dinophysis norvegica*

Toxic/Noxious Organisms Worked With
Pseudonitzschia pungens f. *multiseriata*, *Dinophysis norvegica*

Toxins Worked With
Domoic acid, DSP

Years of Experience with Toxic Algae/Biotoxins

Where Worked
Canada, China Sea

Regional/International Program Participation

Languages
English, Chinese

Citizenship
People's Republic of China

Canada

Paranjape, Madhu A.

Research scientist
NAFC, Science Branch
Department of Fisheries and Oceans
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Canada

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Email:

Degrees
M.Sc.

General Expertise
Biology, ecology, taxonomy

Specialty
Relationship between harmful algae and planktonic ciliated protozoa

Toxic/Noxious Organisms Worked With
Alexandrium fundyense, *Dinophysis norvegica*

Toxins Worked With
PSP, DSP

Years of Experience with Toxic Algae/Biotoxins

Where Worked
Newfoundland

Regional/International Program Participation
DFO Inspection Branch monitoring of shellfish toxins

Languages
English

Citizenship
Canada

Parrish, Christopher

Assistant professor
Ocean Sciences Centre
Memorial University of Newfoundland
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Degrees
B.Sc., Ph.D.

General Expertise
Chemistry

Specialty
Algal lipid and fatty acids important in algal physiology as markers or signature compounds, and as possible toxins

Toxic/Noxious Organisms Worked With
Pseudonitzschia pungens, *Gymnodinium* f. *nagasakiense*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
4

Where Worked

Regional/International Program Participation

Languages
English, French

Citizenship
Canada, United Kingdom

Canada

Pauley, Kevin

Private biological consultant
RR #2
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Canada

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Degrees
B.Sc., M.Sc.

General Expertise

Biology, ecology, taxonomy, fisheries, aquaculture, management, isolation and culture of harmful algal species from the Northwestern Atlantic

Specialty

Phytoplankton monitoring; isolation and culture techniques for local toxic species; live toxic algal collection; studies on biogeographical distributions, life histories, metabolic requirements and processes, and rapid identification methods for local harmful algal species

Toxic/Noxious Organisms Worked With

Pseudonitzschia pungens, *Dinophysis* sp., *Prorocentrum lima*, *P. minimum*, *Alexandrium excavatum*, *Modiolus modiolus*, *Mytilus edulis*, *Mya arenaria*, *Placoepectin magellanicus*, *Ostrea edulis*

Toxins Worked With

Domoic acid, okadaic acid, associated DSP and PSP toxins

Years of Experience with Toxic Algae/Biotoxins

5

Where Worked
Canada

Regional/International Program Participation
DFO Phytoplankton WG

Languages
English

Citizenship
Canada

Quilliam, Michael A.

Research scientist
Institute for Marine Biosciences
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Canada

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Degrees
B.Sc., Ph.D.

General Expertise
Chemistry

Specialty

Development of analytical methods for the detection, identification, and quantitation of toxins; production of standards and reference materials

Toxic/Noxious Organisms Worked With

Mussels, *Prorocentrum* spp., *Nitzschia* spp.

Toxins Worked With

Domoic acid, ASP, DSP, PSP

Years of Experience with Toxic Algae/Biotoxins

7

Where Worked
Eastern Canada

Regional/International Program Participation
Marine Analytical Chemistry Standards Program

Languages
English

Citizenship
Canada

Richard, Donald

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Inspection Branch
Department of Fisheries and Oceans
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New Brunswick E0G 1H0
Canada

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donrichard@delphi.com or
donrichard@bionet.bio.dfo.ca

Degrees

Aquaculture diploma

General Expertise

Fisheries, public health, management

Specialty

Planning and development of work groups performing bioassays; monitoring toxicity levels using mouse bioassay; rat and suckling mouse assays; analysis of and guidance for researchers and regulators on toxins and interfering substances

Toxic/Noxious Organisms Worked With

Alexandrium, *Pseudonitzschia*, *Mya*, *Mytilus*, *Placoepecten*

Toxins Worked With

PSP, domoic acid

Years of Experience with Toxic Algae/Biotoxins

10

Where Worked
Eastern Canada

Regional/International Program Participation

Languages
English, French

Citizenship
Canada

Schwinghamer, Peter

Research scientist
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Canada

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Email:

Degrees
Ph.D.

General Expertise
Ecology

Specialty

Role of hypnozygotes of *Alexandrium fundyense* in winter outbreaks of PSP in cultured *Mytilus edulis*

Toxic/Noxious Organisms Worked With

Alexandrium fundyense

Toxins Worked With

PSP

Years of Experience with Toxic Algae/Biotoxins

Where Worked
Newfoundland

Regional/International Program Participation
DFO Inspection Branch monitoring of shellfish toxins

Languages
English

Citizenship
Canada

Canada

Smith, John C.

Research scientist
Gulf Fisheries Center
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Canada

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Degrees
B.Sc., M.Sc., Ph.D.

General Expertise
Ecology, physiology, aquaculture, monitoring

Specialty

Field and laboratory studies of *Pseudonitzschia pungens* growth and domoic acid production; studies of DSP-producers in northern waters and the factors governing their growth and toxicity; developed procedures for phytoplankton monitoring currently used throughout most of the Atlantic zone of Canada

Toxic/Noxious Organisms Worked With

Pseudonitzschia sp., *Dinophysis* sp., *Prorocentrum* sp., *Mytilus*, *Crassostrea*, *Placoepectin*, fish, larvae

Toxins Worked With

Domoic acid, DSP, PSP

Years of Experience with Toxic Algae/Biotoxins

7

Where Worked
Gulf of St. Lawrence

Regional/International Program Participation
ICES, IOC WG on HABs

Languages
English

Citizenship
Canada

Stewart, James E.

Research scientist
Habitat Ecology Division
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Degrees
B.S.A., M.S.A., Ph.D.

General Expertise
Microbiology

Specialty

Experimental studies with toxin producing algae and microorganisms

Toxic/Noxious Organisms Worked With

Alexandrium tamarense, *Alexandrium fundyense*, *Nitzschia pungens*, *Mytilus edulis*, *Argopecten magellanicus*

Toxins Worked With

PSP, domoic acid

Years of Experience with Toxic Algae/Biotoxins

Where Worked
Atlantic Canada

Regional/International Program Participation

Languages
English

Citizenship
Canada

Canada

Subba Rao, D.V.

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Fax: 902-426-7827
Email: svd@hedbio@dfosf

Degrees

B.Sc., M.Sc., Ph.D.

General Expertise

Biology, ecology, taxonomy, physiology, monitoring, training

Specialty

Identifying diatoms that cause domoic acid episodes; culture, physiological ecology, and domoic acid production in *Pseudonitzschia pungens* f. *multiseries*; accumulation and depuration of domoic acid an okadaic acid in molluscs; physiological ecology of toxigenic diatoms and dinoflagellates

Toxic/Noxious Organisms Worked With

Prorocentrum micans, *Pseudonitzschia pungens* f. *multiseries*, *Dinophysis norwegica*

Toxins Worked With

Domoic acid, okadaic acid

Years of Experience with Toxic Algae/Biotoxins

25

Where Worked

Canada (PEI, Atlantic Canada, Nova Scotia; United States (Georges Bank, Chesapeake Bay, Puerto Rico); Australia (New South Wales); Bay of Bengal, Indian Ocean, the Arctic, South china Sea, Gulf of Thailand

Regional/International Program Participation

ICES WG on Harmful Phytoplankton; Scotia-Fundy Phytoplankton Monitoring Program

Languages

English, some French

Citizenship

Canada

Thibault, Pierre

Research scientist
Institute for Marine Sciences
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Degrees

Ph.D.

General Expertise

Chemistry, aquaculture

Specialty

Development of separation techniques coupled to mass spectrometry (LC/MS CZEIMS) for the analysis of marine toxins

Toxic/Noxious Organisms Worked With

Alexandrium sp., scallops, mussels

Toxins Worked With

PSP, DSP, ASP

Years of Experience with Toxic Algae/Biotoxins

7

Where Worked

Northeastern coast of Canada

Regional/International Program Participation

Marine Analytical Chemistry Standard Program

Languages

English, French

Citizenship

Canada

Todd, Ewen C. D.

Head, Contaminated Foods Section
HPB/Bureau of Microbial Hazards
Health and Welfare Canada
Banting Res. Centre, Tunney's Pasture
Ottawa, Ontario K1A 0L2
Canada

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Degrees

Ph.D.

General Expertise

Public health

Specialty

Public health effects of toxins produced by HABs, particularly dinoflagellates; investigation of illnesses related to fish and shellfish consumption; detection of toxins in samples

Toxic/Noxious Organisms Worked With

Toxins Worked With

PSP, ciguatera toxins, domoic acids

Years of Experience with Toxic Algae/Biotoxins

15

Where Worked

Canada

Regional/International Program Participation

Languages

English, French

Citizenship

Canada, United Kingdom

Townsend, Linda D.

Biological technician
Pacific Biological Station
Department of Fisheries and Oceans
Nanaimo, British Columbia V9R 5K6
Canada

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Email:

Degrees

Aquaculture and fisheries degree

General Expertise

Biology, fisheries, aquaculture, monitoring

Specialty

Culturing toxic phytoplankton species; determining the conditions of toxin production in the laboratory; assessing uptake and depuration of toxins in zooplankton, shellfish, and fish in the laboratory; monitoring natural shellfish populations for the presence of toxins

Toxic/Noxious Organisms Worked With

Pseudonitzschia pungens f. *multiseries*, *Heiterosigma carterae*, *Mytilus californianus*, *Brachionus plicatilis*, *Tapes philippinarum*, *Siliqua patula*

Toxins Worked With

Domoic acid, unknown toxin of *H. catenae*

Years of Experience with Toxic Algae/Biotoxins

4

Where Worked

Canada, United States

Regional/International Program Participation

DFO Toxic Phytoplankton Research Program

Languages

English, Spanish, French

Citizenship

Canada

Canada

Trick, Charles

Associate professor
Department of Plant Sciences
University of Western Ontario
London, Ontario N6A 5B7
Canada

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11007_1120@uwovax.uwo.ca

Degrees

B.Sc., M.Sc., Ph.D.

General Expertise

Biology, ecology, genetics

Specialty

Algal bacterial interaction; nutrient control of toxin production

Toxic/Noxious Organisms Worked With

Alexandrium, *Peridinium*, *Anabaena*, *Proocentrum*

Toxins Worked With

PSP

Years of Experience with Toxic Algae/Biotoxins

10

Where Worked

Laboratory based experiments

Regional/International Program Participation

Languages

English

Citizenship

Canada

Walter, John Alexander

Research scientist
National Research Council of Canada
Institute for Marine Biosciences
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Canada

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Email: INTERNET:
johnw@imb.lan.nrc.ca

Degrees

B.Sc., Ph.D.

General Expertise

Chemistry, physics, NMR spectroscopy

Specialty

NMR spectroscopy: use in structure determination, identification, quantification, and biosynthetic studies of algal toxins; NMR *in vivo*; molecular conformation, interaction, physical properties, modeling

Toxic/Noxious Organisms Worked With

Nitzschia sp., *Gonyaulax* sp., *Prorocentrum*, *Alexandrium*, mussels, scallops, oysters, clams

Toxins Worked With

ASP (domoic-acid related), PSP, DSP

Years of Experience with Toxic Algae/Biotoxins

6

Where Worked

Eastern Canada; with organisms from eastern and western North American coasts, Caribbean coast, and Irish coast

Regional/International Program Participation

National and international conference

Languages

English, French

Citizenship

Australia

Canada

Watson-Wright, Wendy M.

Director
St. Andrews Biological Station
Department of Fisheries and Oceans
St. Andrews, New Brunswick
EOG 2X0
Canada

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w3@bionet.bio.dfo.ca

Degrees
B.P.E., M.Sc., Ph.D.

General Expertise
Physiology, toxicology, aquaculture

Specialty
Respiratory aspects of toxicity and HAB monitoring; human health effects of phycotoxins

**Toxic/Noxious Organisms
Worked With**
Alexandrium, molluscs, lobsters

Toxins Worked With
PSP, DSP

**Years of Experience with
Toxic Algae/Biotoxins**
5

Where Worked
Atlantic Canada

**Regional/International
Program Participation**
Scotia-Fundy Regional Phycotoxins Advisory Committee

Languages
English

Citizenship
Canada

Whyte, John N.C.

Research scientist
Pacific Biological Station
Department of Fisheries and Oceans
Hammond Bay Road
Nanaimo, British Columbia V9R 5K6
Canada

Telephone: 604-756-7007
Telex:
Fax: 604-756-7053
Email:

Degrees
B.Sc., Ph.D.

General Expertise
Biology, chemistry

Specialty
Evaluating toxic algae; investigating factors influencing growth and toxin production in algae; assessing retention of toxins in commercial species; understanding the physiological mechanisms for toxicity; studying the effects of toxic algae on other algae, zooplankton, and larvae of fish and bivalves to assess effects on recruitment

**Toxic/Noxious Organisms
Worked With**
Pseudonitzschia pungens f. *multiseries*,
Heterosigma carterae

Toxins Worked With
Domoic acid

**Years of Experience with
Toxic Algae/Biotoxins**
3

Where Worked
Pacific Canada

**Regional/International
Program Participation**

Languages
English

Citizenship
Canada/United Kingdom

Wright, Jeffrey L.C.

Research scientist
Institute for Marine Biosciences
National Research Council of Canada
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Canada

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Degrees
Ph.D.

General Expertise
Biology, ecology, toxicology, biosynthesis structure

Specialty
Biological chemistry; isolation, purification, and identification of new marine toxins; toxicology; structure-activity relationships; marine chemical ecology; biosynthesis of toxins

**Toxic/Noxious Organisms
Worked With**
Nitzschia, *Prorocentrum*, *Dinophysis*,
Alexandrium, *Gonyaulax*, mussels, scallops

Toxins Worked With
Domoic acid, DSP, "fast-acting" toxins, polyethers

**Years of Experience with
Toxic Algae/Biotoxins**
7

Where Worked
East and west coasts of North America, south coast of France

**Regional/International
Program Participation**
Canadian workshops on HABs, IFREMER toxic phytoplankton studies

Languages
English

Citizenship
Canada

Canada

Yousif, Alex N.

Research associate
Institute for Aquaculture Research
Department of Biosciences
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Canada

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Degrees
B.Sc., M.Sc., Ph.D.

General Expertise
Biology, fisheries, aquaculture

Specialty
The mode of action of toxic phytoplankton *Heterosigma akashiwo* on salmonids; maintenance of highly toxic cultures of *Heterosigma akashiwo* under laboratory conditions

**Toxic/Noxious Organisms
Worked With**
Heterosigma akashiwo, salmonids

Toxins Worked With
Oxygen intermediates

**Years of Experience with
Toxic Algae/Biotoxins**

Where Worked
British Columbia

**Regional/International
Program Participation**

Languages
English, Arabic

Citizenship
Canada

Canada

Cullen, John J.

Adjunct Professor
Department of Oceanography
Dalhousie University
Halifax, Nova Scotia B3H 4J1
Canada

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Telex:
Fax: 902-494-3877
Email: john.cullen@dal.ca

Degrees

B.A., Ph.D.

General Expertise

Biological oceanography

Specialty

Optical measurements of biological
variability; UV radiation; vertical
migration and nutrition of
dinoflagellates

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

Where Worked

Coastal and open ocean waters

Regional/International Program Participation

Languages

English

Citizenship

Canada, U.S.A.

Taylor, F.J.R. "Max"

Professor, Director
N.E. Pacific Cultur Collection
Department of Oceanography
University of British Columbia
Vancouver B.C. V6T 1Z4
Canada

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Degrees

B.Sc., B.Sc. (Hons.), Ph.D.

General Expertise

Biology (protistology, evolution,
biogeography, ecology, symbiosis)

Specialty

Taxonomy, community structure and
autecology of harmful species,
ciguatera, fish-killers and shellfish
poison producers, cultures,
ultrastructure

Toxic/Noxious Organisms Worked With

Alexandrium spp., *Heterosigma carterae*
(=*H. akashiwo*), *Gambierdiscus*, other
benthics

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

33

Where Worked

South Africa, West coast of N. America,
Mediterranean, Andaman Sea, E.
Caribbean, Jamaica, Cayman Is.,
Bermuda, Hawaii, Marshall Is., Guam,
S.E. Asian Waters

Regional/International Program Participation

International Indian Ocean Expedition,
ASEAN-Canada Cooperative Programme
in Marine Science, SCOR Working
Group 97

Languages

English, Afrikaans, read French and
German

Citizenship

Canada

Chile

Braun Alegria, Juan Mauricio

Professor
Instituto de Fomento Pesquero
Depto Oceanografia
Blanco 1067, Casilla 8V
Valparaiso
Chile

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Degrees
Licenciado de Biologie

General Expertise
Ecology, taxonomy

Specialty

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With
Alexandrium catenella, *Mesodinium
rubrum*

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked

**Regional/International
Program Participation**
CONA (Comite Oceanografico Nacional)

Languages
Spanish, English

Citizenship
Chile

Clément, Alejandro

Research scientist
Universidad de Los Lagos
Fisheries Department
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Puerto Montt
Chile

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Degrees
M.S.

General Expertise
Biology, ecology, taxonomy, aquaculture,
management

Specialty

Monitoring programs for the aquaculture
industry in fjordic estuarine waters; ecol-
ogy of phytoplankton

**Toxic/Noxious Organisms
Worked With**
Dinophysis, *Leptocylindrus*, mussels,
salmonids

Toxins Worked With
DSP

**Years of Experience with
Toxic Algae/Biotoxins**
8

Where Worked
Chilean fjords, southeast and northeast
Pacific

**Regional/International
Program Participation**
Phytoplankton Monitoring Program for the
shellfish and salmonid industries

Languages
Spanish, English

Citizenship
Chile

Lagos, Nestor

Research scientist
Departamento de Fisiologia y Biofisica
Facultad de Medicina-Universidad
de Chile
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Chile

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Degrees
Ph.D.

General Expertise
Physiology, toxicology, monitoring

Specialty

Marine toxin monitoring with HPCL de-
tection and quantitative analysis of DSP
and PSP (shellfish toxins); purification and
characterization of these toxins; develop-
ment of state-of-the-art technologies for
their analysis; purification and inhibitory
effects of *Microcystis aeruginosa* toxin on
ion pumps in the gill of freshwater fishes

**Toxic/Noxious Organisms
Worked With**
Alexandrium catenella, *Dinophysis acuta*,
freshwater *Microcystis aeruginosa*

Toxins Worked With
Microcystis aeruginosa toxins, DSP, PSP

**Years of Experience with
Toxic Algae/Biotoxins**
2

Where Worked
Southernmost regions in Chile (X and XI
regions)

**Regional/International
Program Participation**

Languages
Spanish, English

Citizenship
Chile

Chile

Lembeye, Georgina Susana

Research scientist
Facultad de Pesquerias & Oceanografia
Universidad Austral de Chile
1327 Puerto Montt
Chile

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Degrees

General Expertise
Ecology, taxonomy, aquaculture, public
health, monitoring

Specialty

DSP and PSP monitoring programs; harm-
ful species for salmon aquaculture

**Toxic/Noxious Organisms
Worked With**
Dinophysis acuminata, *D. acuta*,
Alexandrium catenella, *Ch. convolutus*,
Heterosigma akashiwo

Toxins Worked With
DSP, PSP, DXT-1, OA

**Years of Experience with
Toxic Algae/Biotoxins**

Where Worked
Southern Chile, Patagonia, Straits of
Magellan, Chilean fjords

**Regional/International
Program Participation**

Languages
Spanish, English

Citizenship
Chile

Rodriguez, Benito

Research scientist
Departamento de Fisiologia y Biofisica
Facultad de Medicina
Universidad de Chile
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Chile

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Degrees
Ph.D.

General Expertise
Chemistry, physics

Specialty

Toxin chemistry and analysis

**Toxic/Noxious Organisms
Worked With**
Alexandrium catenella, *Dinophysis acuta*

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**

Where Worked
Chile

**Regional/International
Program Participation**

Languages
Spanish, French

Citizenship
Chile

Rodríguez, Villar L. F.

Research scientist
Faculty of Marine Resources
Instituto Investigaciones Oceanologicas
Universidad de Antofagasta
Box 170
Antofagasta
Chile

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Email:

Degrees

General Expertise
Ecology

Specialty
Ecology of red tides

**Toxic/Noxious Organisms
Worked With**
Prorocentrum micans and other dinoflagel-
lates; *Argopecten purpuratus*

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**

Where Worked
Antofagasta

**Regional/International
Program Participation**

Languages
English

Citizenship
Chile

Chile

Villarroel, Orialis

✓ Research scientist
Seccion Quimica de Alimentos
Instituto de Salud Publica de Chile
Casilla 48, Marathon 1000
Santiago
Chile

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Email:

Degrees

Quimico farmaceutico

General Expertise

Chemistry, toxicology, public health

Specialty

Ensuring seafood quality to protect public health; standardization of methods for toxin detection

Toxic/Noxious Organisms

Worked With

Shellfish

Toxins Worked With

PSP, DSP

Years of Experience with

Toxic Algae/Biotoxins

5

Where Worked

Chile

Regional/International

Program Participation

Taller regional de planificación científica sobre floraciones algales nocivas (COI-UNESCO) y CTMFM de Uruguay; Programa sanitización de moluscos bivalvos (FDA de USA y el Gobierno de Chile)

Languages

Spanish, English

Citizenship

Chile

Croatia

Marasovic, Ivona

Research scientist
Department of Biology
Institute of Oceanography and Fisheries
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58000 Split
Croatia

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Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy, fisheries,
management, monitoring

Specialty
Investigation of red tide phenomena in
coastal waters of the Adriatic; long-term
changes in phytoplankton-related environ-
mental factors in the Adriatic; distribution
and ecology of harmful algal species; in-
teraction of physical processes and phy-
toplankton productivity in Adriatic and
Eastern Mediterranean

**Toxic/Noxious Organisms
Worked With**
Gonyaulax polyedra, *Alexandrium tam-
arense*, *Prorocentrum minimum*, *Pro-
rocentrum lima*, *Dinophysis fortii*, *D. sac-
culus*, *D. acuta*

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
12

Where Worked
Adriatic Sea and Eastern Mediterranean

**Regional/International
Program Participation**
ALPE ADRIA

Languages
English, Croatian

Citizenship
Croatia

Vukadin, Ilija

Research scientist
Institute of Oceanography and Fisheries
Šetalište Ivana Mestrovica 63
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Split
Croatia

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Fax: 385-58-46593
Email:

Degrees
Ph.D.

General Expertise
Chemistry, ecology, toxicology

Specialty
Impact of nutrient enrichment and its rela-
tion to the algal bloom; effects of different
physio-chemical and meteorological factors
to the HAB

**Toxic/Noxious Organisms
Worked With**
Diatoms, dinoflagellates

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Mediterranean Sea, Adriatic Sea

**Regional/International
Program Participation**
MED-POL: Long-term program for pol-
lution monitoring and research in the
Mediterranean Sea

Languages
English, French

Citizenship
Croatia

Cuba

**Popowski Casan,
Genoveva**

Research scientist
 Direction of Marine Resource
 Institute of Oceanology
 Ave 1re #18406 e/184 y 186
 Reparto Flores, Playa
 Ciudad, Havana
 Cuba

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 210300; 210306;
 210623
 Telex: 511290
 Fax: 537-338054 or 637-331697
 Email: oceano@ceniati.cu

Degrees

Lic.

General Expertise

Ecology, taxonomy

Specialty

Nontoxic red tides in Cuba; dinoflagellates associated with ciguatera; role of cyanophyceas in promoting eutrophication and damaging salt pits

Toxic/Noxious Organisms**Worked With**

Gambierdiscus toxicus, *Prorocentrum* sp.,
Aphanothece sp., *Oscillatoria* sp.

Toxins Worked With**Years of Experience with
Toxic Algae/Biotoxins**

6

Where Worked

Cuba, Caribbean Sea

**Regional/International
Program Participation****Languages**

Spanish, French, English

Citizenship

Cuba

Czech Republic

Marsálek, Blahoslav

Head of Department
 Institute of Botany
 Czech Academy of Sci., Dept.
 of Experimental Phycology
 and Ecotoxicology
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 Czech CZ-60365
 Czech Republic

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 425-43321306

Telex:
 Fax: 425-331811
 Email: marsalek@diior.ics.muni.cz

Degrees**General Expertise**

Ecology, taxonomy, physiology,
 toxicology

Specialty

Co-ordinator of Czech task group on water blooms covering experts in taxonomy, toxicology and ecology; personal interest: ecology of toxic species, toxicity detection

Toxic/Noxious Organisms**Worked With**

Microcystis, *Aphanizomenon*,
Anabaena, *Oscillatoria*

Toxins Worked With

Hepatotoxins (neuro- immuno- geno-
 cytotoxins)

**Years of Experience with
Toxic Algae/Biotoxins**

4

Where Worked

Central Europe

**Regional/International
Program Participation**

Histopathological effect of *Microcystis* on carp; autecology of *Microcystis*; cyanotoxin detection systems; is there taxon-toxin relationship?; information system on cyanotoxin in Czech Rep.

Languages

English

Citizenship

Czech

Denmark

Andersen, Per

Consultant
Bio/consult AS
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Denmark

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Email:

Degrees
Ph.D.

General Expertise
Ecology, taxonomy, fisheries, aquaculture, management

Specialty

Toxic/Noxious Organisms Worked With
Alexandrium sp., *Pseudonitzschia* sp., *Dinophysis* sp., *Prorocentrum* sp., *Mytilus edulis*, *Mytilus edulis*, trouts

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Coastal waters and fjords of Denmark

Regional/International Program Participation
Monitoring toxic algae in Danish mussel fisheries and marine fish farms

Languages
Danish, English, Norwegian, Swedish, German

Citizenship
Denmark

Ellegaard, Marianne

Ph.D. student
Department of Mycology and Phycology
Botanical Institute
University of Copenhagen
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1353 Copenhagen K
Denmark

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Degrees
M.S.

General Expertise
Taxonomy

Specialty
Identification of dinoflagellate cysts; algal culture

Toxic/Noxious Organisms Worked With
Gymnodinium catenatum

Toxins Worked With
Saxitoxins

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
Denmark

Regional/International Program Participation

Languages
Danish, English, German

Citizenship
Denmark

Emsholm, Helle

Danish Veterinary Service
Rolighedsvej 25
DK-1958 Frederiksberg C
Denmark

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Email:

Degrees
M.Sc.

General Expertise
Fisheries, public health, fish quality

Specialty
Danish shellfish monitoring program

Toxic/Noxious Organisms Worked With
Dinophysis, *Alexandrium*, *Nitzschia*

Toxins Worked With
DSP

Years of Experience with Toxic Algae/Biotoxins
4

Where Worked
Denmark

Regional/International Program Participation

Languages
Danish, English

Citizenship
Denmark

Enevoldsen, Henrik Oksfeldt

Project coordinator
Intergovernmental Oceanographic Commission
Science and Communication Centre on Harmful Algae
University of Copenhagen
Øster Farimagsgade 2D
Copenhagen K DK-1353
Denmark

Telephone: 45-33-13-44-46
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Degrees
Cand. Scient.

General Expertise
Biology, taxonomy, management

Specialty
Danish shellfish monitoring program

Toxic/Noxious Organisms Worked With
The Centre provides assistance in taxonomic identification, and various assistance to scientists in developing countries

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
5

Where Worked

Regional/International Program Participation
IOC-FAO Harmful Algal Bloom Programme, SCOR and ICES Working Groups

Languages
Danish, English, French

Citizenship
Denmark

Denmark

Gaard, Eilif

Scientist
Fisheries Laboratory of the Faroes
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FR-100 Tórshavn
Faroe Islands
Denmark

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Degrees
Cand. scient.

General Expertise
Ecology, taxonomy, aquaculture, management

Specialty
Phytoplankton monitoring in the Faroe Islands

Toxic/Noxious Organisms Worked With
Alexandrium excavatum, *Heterosigma akashiwo*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Faroe Islands

Regional/International Program Participation

Languages
Scandinavian, English

Citizenship
Denmark, Faroese

Hald, Benedicte

Assistant professor
Department of Veterinary Microbiology
The Royal Veterinary
and Agricultural University
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Denmark

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Degrees

General Expertise
Biology, chemistry, public health

Specialty

Toxic/Noxious Organisms Worked With

Toxins Worked With
Domoic acid, okadaic acid, paralytic shellfish toxins, DTX-1

Years of Experience with Toxic Algae/Biotoxins
7

Where Worked
Denmark

Regional/International Program Participation
Commission of the European Communities: Community Bureau of Reference--Chemical Analysis

Languages
Danish, English, German

Citizenship
Denmark

Denmark

Herborg, Lars

Chief
Fish Inspection Service
Ministry of Fisheries
Stormgade 2
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Denmark

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Degrees
M.Sc.

General Expertise
Fisheries, public health, management

Specialty
Chemistry: food law administration; toxic algae and bivalve molluscs; surveillance programs

Toxic/Noxious Organisms Worked With
Dinophysis, *Alexandrium*, *Nitzschia*

Toxins Worked With
DSP, PSP

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Denmark

Regional/International Program Participation

Languages
English, German, French

Citizenship
Denmark

Jacobsen, Bodil Aavad

Research scientist
Laboratory of Experimental Biology
ApS
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Denmark

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Degrees
Cand. scient.

General Expertise
Biology, ecology, taxonomy, management

Specialty
Cyanophyte blooms in lakes

Toxic/Noxious Organisms Worked With
Microcystis spp., *Anabaena* spp., *Aphanizomenon* spp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
7

Where Worked
Denmark

Regional/International Program Participation
Concerted Action in Biotechnology-Exploration of Microbial Diversity (Cyanophytes)

Languages
Danish, English

Citizenship
Denmark

Kristensen, Hans Sand

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Degrees
M.Sc.

General Expertise
Ecology, taxonomy, fisheries, aquaculture, monitoring

Specialty

Toxic/Noxious Organisms Worked With
Dinophysis, *Alexandrium*, *Pseudo-nitzschia*, *Prorocentrum*, *Chrysochromulina*, *Mytilus edulis*, trouts

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
5

Where Worked
Baltic, Kattegat, North Sea, coastal waters of and fjords of Denmark

Regional/International Program Participation
Phytoplankton monitoring in Danish counties; monitoring toxic algae in relation to the Danish mussel fisheries

Languages
Danish, Norwegian, Swedish, English

Citizenship
Denmark

Moestrup, Øyvind

University lecturer
Department of Phycology
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Degrees
D.Sc.

General Expertise
Biology, taxonomy

Specialty
Taxonomy of plankton algae

Toxic/Noxious Organisms Worked With
Haptophytes, diatoms, raphidophytes

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Europe, Caribbean, Australia, New Zealand

Regional/International Program Participation
Fishery Inspection Service, Danish Ministry of Fisheries

Languages
Danish, Swedish, English, German, French

Citizenship
Denmark

Denmark

Mortensen, Aki Mannbjørn

Director, chief veterinary officer
Landsdýralæknin
FR-410 Kollafjarður
Faroe Islands
Denmark

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Degrees
Cand. Med. Vet.

General Expertise
Aquaculture, veterinary medicine, management

Specialty
Gonyaulax excavata red-tide effects on *Salmo salar*, *Onchorynchus mykiss*; PSP in humans and cats after consumption of *Mytilus edulis*

Toxic/Noxious Organisms Worked With
Alexandrium excavatum, *Salmo salar*, *Onchorynchus mykiss*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
Faroe Islands

Regional/International Program Participation

Languages
Danish, English, Faroese

Citizenship
Denmark

Olrik, Kirsten

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ApS
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Denmark

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Fax: 45-49-160076
Email:

Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy, management

Specialty
Cyanophyte blooms in lakes; dinoflagellates and haptophytes in the sea

Toxic/Noxious Organisms Worked With
Microcystis spp., *Anabaena* spp., *Aphanizomenon* spp., *Alexandrium tamarense*, *Gyrodinium aureolum*, *Chrysochromulina* spp., *Prymnesium parvum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
18

Where Worked
Denmark

Regional/International Program Participation
Concerted Action in Biotechnology-Exploration of Microbial Diversity (Cyanophytes)

Languages
Danish, English

Citizenship

Denmark

Richardson, Katherine

Department head
Department of Marine Ecology
Danish Institute for Fisheries
and Marine Research
Charlottenlund Castle
DK-2920 Charlottenlund
Denmark

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kr@fimdfh.fim.dk

Degrees

Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Influence of hydrographic features on
bloom development; environmental factors
contributing to bloom collapse

Toxic/Noxious Organisms

Worked With

Toxins Worked With

Years of Experience with

Toxic Algae/Biotoxins

20

Where Worked

East Coast of U.S., coastal Ireland, North
Sea, Baltic Sea

Regional/International

Program Participation

ICES

Languages

English, Danish, Swedish, Norwegian,
French

Citizenship

United States

Addendum

Denmark

Christoffersen, Kirsten

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Laboratory
University of Copenhagen
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Denmark

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Telex:
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Degrees

Ph.D.

General Expertise

Ecology

Specialty

Ecotoxicological aspects: effects on
plankton organisms; variation of toxin
in natural systems (lakes); ecological
consequences for planktonic food webs

Toxic/Noxious Organisms

Worked With

Microcystis and natural fauna of lakes

Toxins Worked With

Microcystin

Years of Experience with

Toxic Algae/Biotoxins

6

Where Worked

Scandinavia

Regional/International

Program Participation

Strategic Environmental Program
(National)

Languages

English, Scandinavian

Citizenship

Denmark

Jensen, Jens Peder

Research scientist
Department of Freshwater
Ecology
National Environmental
Research Institute
P.O. Box 314, Vejlsøvej 25
8600 Silkeborg
Denmark

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fvjp@dmu.dk

Degrees

M.Sc.

General Expertise

Biology, ecology

Specialty

Working with the distribution of
phytoplankton in lakes of different
types and with different nutrient status;
autecological descriptions of species
(including cyanobacteria)

Toxic/Noxious Organisms

Worked With

Cyanobacteria

Toxins Worked With

Microcystin

Years of Experience with

Toxic Algae/Biotoxins

7

Where Worked

Denmark, Northern part of Europe

Regional/International

Program Participation

Survey in Denmark, collaboration with
partners from the Netherlands, Norway,
Sweden and U.K. concerning
distributional patterns of
phytoplankton

Languages

Danish, English

Citizenship

Denmark

Ravn, Helle

Research scientist
Department of Marine Ecology
and Microbiology
National Environmental
Research Institute
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399
4000 Roskilde
Denmark

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Fax: 45-46-30-12-16
45-46-30-11-14
Email:

Degrees

Ph.D.

General Expertise

Biology, chemistry, toxicology, public
health

Specialty

Chemical analysis of PSP and ASP
toxins; co-ordination of HAB
programme (IOC) and research project
co-ordination

Toxic/Noxious Organisms

Worked With

Alexandrium sp., *Chrysochromulina* sp.

Toxins Worked With

PSP and ASP, haemolytic compounds

Years of Experience with

Toxic Algae/Biotoxins

6

Where Worked

Denmark and Global (IOC, HAB
Programme)

Regional/International

Program Participation

Have been co-ordinator of IOC HAB
Programme for 3 years (1993-1996)

Languages

Danish, English, German, French

Citizenship

Denmark

Dominican Republic

Jakowska, Sophie

Consulting biologist
Arz. Merino 154
Santo Domingo
Dominican Republic

Telephone: 809-687-3948
Telex:
Fax:
Email:

Degrees

M.S., Ph.D.

General Expertise

Biology, toxicology, aquaculture

Specialty

Information on ciguatera; fish pathology

Toxic/Noxious Organisms Worked With

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
45

Where Worked

Caribbean, New York Aquarium

Regional/International Program Participation

Languages

English, Polish, Spanish, French

Citizenship

United States

Ecuador

Jimenez, Roberto

Research scientist
ACUATECNOS
P.O. Box 5738
Guayaquil 5738
Ecuador

Telephone: 452788
Telex:
Fax: 593-44-55409
Email:

Degrees

Ph.D., biological sciences

General Expertise

Ecology, taxonomy, aquaculture

Specialty

Sampling programs in coastal cruises, including cell counts with the inverted microscope; identification of phytoplankton; interpretation of data with hydrographic parameters

Toxic/Noxious Organisms Worked With

Mesodinium rubrum, *Gyrodinium striatum*, *Prorocentrum maximum*, and blue-green algae

Toxins Worked With

Red tides

**Years of Experience with
Toxic Algae/Biotoxins**
20

Where Worked

Gulf of Guayaquil, South American Pacific coast

Regional/International Program Participation

ERFEN (regional program on the El Niño phenomenon) with Colombia, Peru, Chile, and Ecuador

Languages

Spanish and English

Citizenship

Ecuador

Egypt

Gergis, Wagdy Labib

Research scientist
National Institute of Oceanography
and Fisheries
Kayet Bey, Alexandria
Egypt

Telephone: 020-03-807138
Telex:
Fax: 020-03-807553
Email:

Degrees

B.Sc., M.Sc., Ph.D.

General Expertise

Biology, ecology

Specialty

Phytoplankton distribution; ecology of
phytoplankton; red tide blooms; Egyptian
and Mediterranean coasts

Toxic/Noxious Organisms Worked With

Alexandrium minutum, *Prorocentrum*
minimum, *Heterosigma akashiwo*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

10

Where Worked

Aburatsubo Bay, Japan; Eastern Harbour,
Mex Bay, Alexandria, Egypt

Regional/International Program Participation

Languages

English, Japanese, Arabic

Citizenship

Egypt

Halim, Youssef

Professor
Faculty of Science
Oceanography Department
Alexandria 21511
Egypt

Telephone: 203-5869661
Telex:
Fax: 203-5457611
Email:

Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy, management

Specialty

Alexandrium minutum, *Gessnerium*

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

Where Worked

Regional/International Program Participation

Languages

English, French

Citizenship

Egypt

Ismail, Amany

Teaching assistant
Faculty of Science
Oceanography Department
Alexandria 21511
Egypt

Telephone: 203-851470
Telex: 203-54467
Fax: 203-4833136
Email:

Degrees

M.Sc.

General Expertise

Biology, taxonomy

Specialty

Ecological and systematical studies of phy-
toplankton; dinoflagellates in semi-en-
closed, polluted basins; the Eastern
Harbour

Toxic/Noxious Organisms Worked With

Alexandrium minutum

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

Where Worked

Alexandria waters

Regional/International Program Participation

Languages

English, Egyptian

Citizenship

Egypt

Egypt

Mitwally, Hanan

Teaching assistant
Faculty of Science
Oceanography Department
Alexandria 21511
Egypt

Telephone: 203-491-9498
Telex: 203-54467
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Email:

Degrees

M.Sc.

General Expertise

Biology, taxonomy of diatoms

Specialty

Ecological and systematical studies of phy-
toplankton; diatoms in the Eastern
Harbour, a semi-closed, polluted basin

Toxic/Noxious Organisms Worked With

Alexandrium minutum Halim

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

Where Worked

Alexandria waters

Regional/International Program Participation

IOC training course on harmful algae

Languages

English

Citizenship

Egypt

Fiji

Anraku, Masateru

Fisheries advisor
Overseas Fishery
Cooperation Foundation
Private Mail Bag, OFCF Suva Office
Suva
Fiji

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Fax: 679-304069
Email:

Degrees
Ph.D.

General Expertise
Ecology, fisheries, aquaculture

Specialty
Chattonella and *Gymnodinium* blooms

**Toxic/Noxious Organisms
Worked With**
Chattonella, *Gymnodinium*, and yellow-
tail

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Japan (Inland Sea)

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

Finland

Huttunen, Maija

Scientist
Finnish Institute of Marine Research
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FIN-00931 Helsinki
Finland

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Telex:

Fax: 358-0-331-376

Email:

Degrees

General Expertise

Specialty

Toxic/Noxious Organisms Worked With

Nodularia spumigena

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

Where Worked

Baltic Sea

Regional/International Program Participation

Languages

English, Finnish

Citizenship

Finland

Kononen, Kaisa

Research scientist
Biology Department
Finnish Institute of Marine Science
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FIN-00931 Helsinki
Finland

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Telex:

Fax: (358)0-331376

Email: INTERNET: kaisa@fimr.fi

Degrees

Ph.D.

General Expertise

Biology, ecology, monitoring

Specialty

Baltic Sea phytoplankton: long-term variation of phytoplankton species composition, toxicity, hydrodynamic control of toxic cyanobacterial blooms; phytoplankton monitoring in Finland through the Baltic Sea Monitoring Programme

Toxic/Noxious Organisms Worked With

Nodularia spumigena, *Aphanizomenon flos-aquae*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

15

Where Worked

Baltic Sea

Regional/International Program Participation

Baltic Sea Monitoring Programme

Languages

Finnish, Swedish, English

Citizenship

Finland

Lepistö, Liisa

Scientist
Water and Environment Research Office
National Board of Waters
and the Environment
PB 250, Fin-00101 Helsinki
Finland

Telephone: 358-0-40-281

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Fax: 358-0-402-8345

Email:

Degrees

Lic. Sc.

General Expertise

Ecology

Specialty

Long-term changes in phytoplankton in lakes and reservoirs and related environmental factors; monitoring harmful algal blooms in lakes and coastal waters

Toxic/Noxious Organisms Worked With

Blue-green algae: *Anabaena*, *Microcystis*, *Gomphosphaeria*, *Raphidophyceae*, *Gonyostomum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

11

Where Worked

Baltic Sea, Northern Europe

Regional/International Program Participation

Languages

Finnish, English, German, Swedish, French

Citizenship

Finland

Lindholm, Tore Johannes

Senior lecturer
Department of Biology
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Finland

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Email:

Degrees

Ph.D. (FD)

General Expertise

Specialty

Toxic cyanobacteria, ecology and ecological effects; red tide organisms, biology, ecology

Toxic/Noxious Organisms Worked With

Toxic cyanobacteria in fresh and brackish waters, *Oscillatoria agardhii*, *Prymnesium parvum* (fresh and brackish water phytoplankton)

Toxins Worked With

Microcystins

Years of Experience with Toxic Algae/Biotoxins

10

Where Worked

Baltic Sea

Regional/International Program Participation

Finnish program on harmful algae (informal), symposia on toxic marine phytoplankton

Languages

Finnish, English, German

Citizenship

Finland

Finland

Sivonen, Anna Kaarina

Research scientist, project leader
Department of Applied Chemistry
and Microbiology
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ksivonen@viikki.helsinki.fi

Degrees

Ph.D.

General Expertise

Biology, chemistry, ecology, genetics, taxonomy, toxicology, physiology

Specialty

Off-flavours of cyanobacteria; neuro- and hepatotoxins of cyanobacteria; isolating and culturing cyanobacteria; characterization of toxins; isolating and purifying toxins; detection methods (HPLC, bioassays); growth and toxin production studies; molecular studies of cyanobacteria (taxonomical aspects + toxin production); toxin decomposition studies; toxins removal in water treatment processes

Toxic/Noxious Organisms Worked With

Brackish water and freshwater cyanobacteria (blue-green algae)

Toxins Worked With

Neurotoxins (anatoxin-a); hepatotoxins (microcystins and nodularin) produced by cyanobacteria

Years of Experience with Toxic Algae/Biotoxins

15

Where Worked

Baltic Sea and Scandinavian

Regional/International Program Participation

Languages

German, English, Swedish, Finnish

Citizenship

Finland

France

Ammar, Myriam

Ph.D. student
INSERM
Laboratoire de Physiologie
et Toxicologie Cellulaire
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Paris 75005
France

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Email:

Degrees
D.M.V.

General Expertise
Toxicology, veterinary medicine

Specialty

**Toxic/Noxious Organisms
Worked With**
Prorocentrum lima, *Gambierdiscus toxicus*, *Amphidinium*

Toxins Worked With
Okadaic acid, maitotoxin, DTX-1

**Years of Experience with
Toxic Algae/Biotoxins**
5

Where Worked
France, French Antilles

**Regional/International
Program Participation**
Programme National Pycotoxins Narins
(France)

Languages
French, English, Arabic, Italian

Citizenship
France

Arzul, Genevieve

Research scientist
Environnement Littoral IFREMER -
Centre de Brest
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France

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Degrees
Ph.D.

General Expertise
Ecology, toxicology

Specialty
Gyrodinium aureolum ecology and toxin
detection; comparison of biological tests
for toxin detection

**Toxic/Noxious Organisms
Worked With**
Gyrodinium aureolum

Toxins Worked With
Glycolyids

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Europe

**Regional/International
Program Participation**
PNEAT (Programme National Efflorescences Algales Toxique)

Languages
French, English, Spanish

Citizenship
France

Belin, Catherine

Engineer
Institut Français de Recherche
pour l'Exploitation de la Mer
(IFREMER)
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44037 Nantes Cedex 01
France

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catherine.belin@ifremer.fr

Degrees
Engineer

General Expertise
Monitoring

Specialty
Coordination of the French phytoplankton
monitoring network; quality assurance
(analysis, data)

**Toxic/Noxious Organisms
Worked With**
Dinophysis, *Alexandrium minutum*

Toxins Worked With
Diarrhetic shellfish toxins, paralytic shellfish toxins

**Years of Experience with
Toxic Algae/Biotoxins**
6

Where Worked
France

**Regional/International
Program Participation**
PNOG (French National Program on
Coastal Oceanography); Human Capital
and Mobility (EEC Program)

Languages
French, English, German

Citizenship
France

Billard, Chantal

University lecturer
Laboratoire de Biologie
et Biotechnologies Marines
Université de Caen
Esplanade de la Paix
14032 Caen, Calvados
France

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Fax: 31-45-56-00
Email:

Degrees
Dr. ès Sciences

General Expertise
Biology, taxonomy

Specialty
Isolation, culture, taxonomy, and ultrastructure of marine phytoflagellates in general, including toxic species

**Toxic/Noxious Organisms
Worked With**
Phaeocystis, *Prymnesium*, *Chrysochromulina*, *Heterosigma*

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
22

Where Worked
France

**Regional/International
Program Participation**
French CNRS/IFREMER surveillance program on toxic algal blooms (PNEAT)

Languages
French, English (fluent), Spanish

Citizenship
France

France

Bourdeau, Patrick Jacques

Professor
Veterinary School of Nantes
CP 3013
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France

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Telex:
Fax: 33-40-68-77-51
Email:

Degrees
D.V.M., Ph.D.

General Expertise
Ecology, toxicology, veterinary medicine

Specialty
Ciguatera study; benthic dinoflagellates and substrates; toxic fishes and other toxic marine animals in tropical areas; human poisoning

**Toxic/Noxious Organisms
Worked With**
Coral reef fish (west tropical Atlantic), *Gambierdiscus*, *Prorocentrum*, *Ostreopsis*

Toxins Worked With
CTX, MTX, OA

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Caribbean, Central Pacific

**Regional/International
Program Participation**
Ciguatera fish poisoning 1985-1987, 1990-1993; research of OA in fish, 1994

Languages
English

Citizenship
France

Bruslé, Jacques

Director of Marine Laboratory
Laboratory of Marine Biology
University of Perpignan
52, Avenue de Villeneuve
66860 Perpignan
France

Telephone: 68-66-20-58
Telex:
Fax: 68-66-20-19
Email:

Degrees
Ph.D.

General Expertise
Toxicology, fish pathology

Specialty
Ciguatera in reef fishes

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**

Where Worked
Pacific and Indian Oceans

**Regional/International
Program Participation**

Languages
French, English

Citizenship
France

France

Chinain, Mireille

Research scientist
Ciguatera Institute
Institut Territorial de Recherches
Medicales Louis Malardé
BP 30
Papeete, Tahiti
French Polynesia

Telephone: (689)41-64-19
Telex:
Fax: (689)43-15-90
Email:

Degrees
Ph.D.

General Expertise
Biology

Specialty
Monitoring program for ciguatera dinoflagellates; culturing those dinoflagellates, assessing their toxicity; biochemical characterization of strains of dinoF (isozymes)

Toxic/Noxious Organisms Worked With
Gambierdiscus toxicus, *Ostreopsis* sp.

Toxins Worked With
Ciguatoxin, maitotoxin

Years of Experience with Toxic Algae/Biotoxins
4

Where Worked
French Polynesia

Regional/International Program Participation

Languages
French, English

Citizenship
French, United Kingdom

Chrétiennot-Dinet, Marie-Josèphe

Research scientist
Université Pierre & Marie Curie-
CNRS URA 17
Observatoire Océanologique de Banyuls
Laboratoire Arago
F-66650 Banyuls-sur-mer
France

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Telex: 505020 ARAGOB
Fax: 33-68-88-73-95
Email:

Degrees
Ph.D.

General Expertise
Ecology, taxonomy

Specialty
Taxonomy and ecology of nanoplankton; surveys of potentially toxic or harmful algae other than dinoflagellates along the French coast; *Chrysochromulina* spp., *Phaeocystis* spp.

Toxic/Noxious Organisms Worked With
Chrysochromulina spp., *Phaeocystis* spp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
20

Where Worked
Mediterranean Sea-tropical Atlantic

Regional/International Program Participation
PNEAT, France

Languages
French, English

Citizenship
France

Diogene, Georges

Research scientist
Dept. Physiologie
et Toxicologies Cellulaire
Univ. Paris 7
2, Place Jussieu
Paris 75251
France

Telephone: 33-16-44-27-60-61
Telex:
Fax: 33-16-44-27-69-99
Email:

Degrees
Ph.D.

General Expertise
Biology, ecology, physiology, toxicology, cytotoxicity assays

Specialty
Purification of maitotoxin; culture of algae (mass); detection of toxic effects in cultured mammalian cells

Toxic/Noxious Organisms Worked With
Gambierdiscus toxicus, *Prorocentrum lima*, *P. concavum*, *Amphidinium carterae*

Toxins Worked With
Maitotoxins, ciguatoxins, okadaic acid

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
France, Gulf of Mexico, New Caledonia

Regional/International Program Participation
PNEAT (Programme National Efflorescences Algales Toxique)

Languages
French, English, Spanish

Citizenship
France

Dion, Patrick

Research scientist
Centre d'Etude et
de Valorisation de Algues (CEVA)
BPS 22610
Pleubian
France

Telephone: (33)-96-22-93-50
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Fax: (33)-96-22-84-38
Email:

Degrees
Docteur d-etat

General Expertise
Biology, ecology, taxonomy, physiology, management

Specialty
Physiological ecology of macroalgal blooms (green tides); field and laboratory approaches; seaweed reaction to eutrophication

Toxic/Noxious Organisms Worked With
Ulva sp., *Entromorphe* sp., *Psylavella* sp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
5

Where Worked
European North Atlantic coasts

Regional/International Program Participation
French Programme on Eutrophication (PNDC), European Programme on Eutrophication (EUNAC)

Languages
French, English

Citizenship
France

France

Erard-Le Denn, Evelyne

Senior scientist
IFREMER - Centre de Brest
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France

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Degrees

General Expertise
Biology, ecology, taxonomy

Specialty
Toxic marine phytoplankton: resting cysts of dinoflagellates, especially *Alexandrium minutum* cysts in sediment; excystment

Toxic/Noxious Organisms Worked With
Gyrodinium aureolum, *Alexandrium minutum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Brittany (France)

Regional/International Program Participation
PNEAT--French National Program on Harmful Algal Blooms

Languages
French, English

Citizenship
France

Fessard, Valerie

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France

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Degrees

General Expertise
Biology, toxicology

Specialty
Toxicity of algae extracts: cytotoxicity, algal culture; effects of toxins on cytoskeleton, DNA, fish (detoxification)

Toxic/Noxious Organisms Worked With
P. lima, *Gambierdiscus toxicus*, *Amphidinium*

Toxins Worked With
Okadaic acid, maitotoxin, ciguatoxin

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
France

Regional/International Program Participation
French program, Phycotoxines Mariner *

Languages
French, English, Spanish

Citizenship
France

France

Fremy, J. Marc

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Unit of Microbial Toxins
CNEVA/Lab. Central
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France

Telephone: 33-1-4531-1480
Telex:
Fax: 33-1-4531-2994
Email:

Degrees
Ph.D.

General Expertise
Chemistry, toxicology, fisheries, aquaculture, public health

Specialty
DSP toxin determination by using HPLC procedure and immuno-assays; experimental studies of contamination of marine food chain; co-management of the French National Refer. Lab. for marine biotoxins for the EEC

Toxic/Noxious Organisms Worked With
Dinophysis sp., *Prorocentrum* sp.

Toxins Worked With
DSP

Years of Experience with Toxic Algae/Biotoxins
9

Where Worked
Coast of France, West Indies

Regional/International Program Participation
French national programs on HABs; EEC/BCR programs; UNESCO/IOC

Languages
French, English

Citizenship
France

Fresnel, Jacqueline

Ingenieur C.N.R.S.
Laboratoire de Biologie et
Biotechnologies Marines (Phycologie)
Université de Caen
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France

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Fax: 31-45-56-00
Email:

Degrees
Dr. ès Sciences

General Expertise
Biology, taxonomy

Specialty
Isolation, culture, taxonomy, and ultra-structure of marine phytoflagellates in general, including toxic species

Toxic/Noxious Organisms Worked With
Phaeocystis, *Prymnesium*, *Chrysochromulina*, *Heterosigma*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
12

Where Worked
France

Regional/International Program Participation
French CNRS/IFREMER surveillance program on toxic algal blooms (PNEAT)

Languages
French, English

Citizenship
France

Gentien, Patrick E.

Senior research scientist
IFREMER/DEL/Ecologie
Centre de Brest
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33-9822-4325

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patrick.gentien@ifremer.fr

Degrees
Ph.D.

General Expertise
Chemistry, ecology

Specialty
Allelopathy; lipid chemistry; grazing; oceanography; sampling; instrumentation; particle sizing *in situ*, *in situ* spectrofluorometry

Toxic/Noxious Organisms Worked With
Gymnodinium f. *nagasakiense*, *Alexandrium minutum*, *Dinophysis* spp.

Toxins Worked With
Hemolysins

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
Europe (Atlantic, Channel, German Bight, Adriatic Sea)

Regional/International Program Participation
PNEAT (Programme National Efflorescences Algales Toxique)

Languages
French, English

Citizenship
France

Herbland, Alain

Research scientist
CREMA- L'Houmeau
(CNRS-IFREMER)
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17137 L'Houmeau
France

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Fax: 33-46-50-91-60
Email:

Degrees
Ph.D.

General Expertise
Ecology, biology, aquaculture

Specialty
Ecological aspects of HABs

Toxic/Noxious Organisms Worked With
Dinophysis sp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
5

Where Worked
West coast of France, tropical Atlantic

Regional/International Program Participation
French National Program on HABs

Languages
French, English

Citizenship
France

France

Jenkinson, Ian

Director
Agency for Consultation and Research
in Oceanography
Lavergne
F-19320 La Roche Canillac
France

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Fax: +33-55-29-1982
Email:

Degrees
Bsc., M.Sc., Ph.D.

General Expertise
Biology, chemistry, physics, ecology, taxonomy, aquaculture, management

Specialty
Roles of physical and chemical mechanisms in toxicity; two-way physical-biological interaction in bloom dynamics

Toxic/Noxious Organisms Worked With
Gyrodinium aureolum, *Phaeocystis*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
12

Where Worked
North Atlantic, France, Ireland, Mediterranean

Regional/International Program Participation

Languages
English, French

Citizenship
France, United Kingdom

Lassus, Patrick

Senior scientist, head of laboratory
IFREMER
Laboratoire Phycotoxines et Nuisances
Direction de l'Environnement Littoral
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44037 Nantes Cedex 01
France

Telephone: 33-40.37.41.30
Telex:
Fax: 33- 40.37.40.73
Email:

Degrees
Doctorate 3rd Cycle

General Expertise
Biology, taxonomy, physiology, toxicology

Specialty
Paralytic shellfish toxin; bioaccumulation and depuration processes in shellfish species; *Dinophysis* taxonomy/identification

Toxic/Noxious Organisms Worked With
Dinophysis spp., *Prorocentrum lima*, *Alexandrium minutum*, *Alexandrium tamarense*, *Alexandrium fundiense*, *Crassostrea gigas*, *Pecten maximus*, *Ruditapes philipinarum*

Toxins Worked With
PSP

Years of Experience with Toxic Algae/Biotoxins
9

Where Worked
English Channel, French Atlantic Coast

Regional/International Program Participation
PNEAT (Programme National Efflorescences Algales Toxique)

Languages
French, English

Citizenship
France

France

LeDoux, Martial

Research scientist
Microbial Toxins Unit
Lab. of Food Hygiene
National Center of Veterinary
and Food Research
43 Rue de Dantzig
Paris 75015
France

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Degrees
Ingénieur

General Expertise
Chemistry, toxicology, public health, toxin
analysis

Specialty
PSP and DSP toxin analysis using Sullivan
and Oshima's method and Lee's method,
respectively; experimental studies of con-
tamination and decontamination processes
for PSP toxins in edible shellfish; toxin
transfer in the food web; shellfish poison-
ing in France; co-management of the
French National Reference Lab on
phycotoxins for EEC

**Toxic/Noxious Organisms
Worked With**
Alexandrium sp., *Dinophysis* sp., all Eu-
ropean shellfish species

Toxins Worked With
PSP, DSP

**Years of Experience with
Toxic Algae/Biotoxins**
7

Where Worked
France

**Regional/International
Program Participation**
French national programs on HAB; EEC
programs on phycotoxin analysis

Languages
French, English

Citizenship
France

Maestrini, Serge Y.

Group leader
Centre de Recherche en Ecologie
Marine et Aquaculture de L'Houmeau
CREMA- L'Houmeau
(CNRS-IFREMER)
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17137 L'Houmeau
France

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Email:

Degrees

General Expertise
Ecology, physiology

Specialty
Environmental conditions that lead to
harmful algal growth

**Toxic/Noxious Organisms
Worked With**
Dinophysis spp.

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
3

Where Worked
Eastern Atlantic Ocean, Adriatic Sea

**Regional/International
Program Participation**
French PNEAT, EEC MARE

Languages
French, English, Italian

Citizenship
France

Puiseux-Dao, Simone

Director
University of Paris 7
2 Place Jussieu
75251 Paris Cedex 05
France

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Email:

Degrees
Ph.D.

General Expertise
Biology, toxicology

Specialty
Toxic phytoplankton in culture; toxins and
their mode of action

**Toxic/Noxious Organisms
Worked With**
Gambierdiscus toxicus, *Prorocentrum lima*

Toxins Worked With
Maitotoxin, okadaic acid

**Years of Experience with
Toxic Algae/Biotoxins**
8

Where Worked
France

**Regional/International
Program Participation**
PNEAT (Programme National Efflor-
escences Algales Toxique)

Languages
French, English, German

Citizenship
France

Quod, Jean Pascal

Director
ARVAM Laboratoire
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97490 Sainte Clotilde
Reunion Island
France

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Degrees
Ph.D.

General Expertise
Ecology, physiology, toxicology, fisheries,
public health, monitoring

Specialty
Pharmacotoxicology of ciguatera toxins;
epidemiology of ciguatera in the West In-
dian Ocean

**Toxic/Noxious Organisms
Worked With**
Ciguatoxins, maitotoxins

Toxins Worked With
Maitotoxin, ciguatoxins

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
French Polynesia, Indian Ocean

**Regional/International
Program Participation**

Languages
French, English

Citizenship
France

France

Sechet, Véronique M.

IFREMER-DEL
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France

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Email:

Degrees
Ph.D.

General Expertise
Biology, chemistry, toxicology, public
health

Specialty
Toxication mechanisms and diarrhetic
shellfish toxin composition in European
and Japanese bivalves; enzyme-linked im-
munoassay for detection of brevetoxin and
ciguatoxin in phytoplankton cells

**Toxic/Noxious Organisms
Worked With**
Dinophysis, *Prorocentrum*, *Gymnodinium*
br., *Gambierdiscus*, *Ostreopsis*, mussels,
scallops

Toxins Worked With
DST, brevetoxins, ciguatoxins

**Years of Experience with
Toxic Algae/Biotoxins**
5

Where Worked
Norway, Japan, United States, France

**Regional/International
Program Participation**

Languages
French, English, Japanese, Spanish

Citizenship
France

Vernoux, Jean-Paul

Research scientist
Toxicology Group Cellular
and Molecular Physiology Laboratory
University of Caen
Esplanade de la Paix
14032 Caen Cedex
France

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Degrees
Ph.D.

General Expertise
Chemistry, toxicology

Specialty
Ciguatera, coral fishes, *Gambierdiscus*
toxicus

**Toxic/Noxious Organisms
Worked With**
Gambierdiscus toxicus

Toxins Worked With
Ciguatoxins, okadaic acid

**Years of Experience with
Toxic Algae/Biotoxins**
20

Where Worked
French Polynesia, French West Indies

**Regional/International
Program Participation**
National phycotoxins program

Languages
French, English

Citizenship
France

France

Pilette, Jean-François

Product Manager
Millipore S.A.
B.P. 307
78054 Saint Quentin-
Yvelines Cedex
France

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Degrees
Masters Chemistry, Biochemical
Engineer

General Expertise
Biology, chemistry

Specialty
Application of immunoassay techniques
to the detection of microcystins in
water and algal mass

**Toxic/Noxious Organisms
Worked With**
Microcystis aeruginosa

Toxins Worked With
Microcystins

**Years of Experience with
Toxic Algae/Biotoxins**
1

Where Worked
Europe, Africa, America

**Regional/International
Program Participation**
International Congress of Toxic
Cyanobacteria

Languages
English, French, Dutch

Citizenship
Belgie

Germany

Dallinga Hannemann, Lorena

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of the Marine Environment (ICBM)
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Oldenburg D-26111
Germany

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Degrees
Dipl. Chem.

General Expertise
Biology, chemistry, ecology, toxicology

Specialty
Harmful algal blooms in Wadden Sea area;
neurotoxin-analysis (HPLC, GLC, TLC,
chemical analysis)

**Toxic/Noxious Organisms
Worked With**
Nitzschia and *Pseudonitzschia*

Toxins Worked With
Domoic acid, kainic acid

**Years of Experience with
Toxic Algae/Biotoxins**
2

Where Worked
Germany, Scandinavia, European Wadden
Sea

**Regional/International
Program Participation**
WATTOX - Neurotoxins in the Wadden
Sea

Languages
German, English, French

Citizenship
Germany

Elbrächter, Malte

Research scientist
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Biologische Anstalt Helgoland
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Germany

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Degrees
Dr.

General Expertise
Biology, ecology, taxonomy

Specialty
Taxonomy and ecology of dinoflagellates

**Toxic/Noxious Organisms
Worked With**
Prorocentrum, *Alexandrium*, *Gymno-*
dinium, *Gyrodinium*

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
20

Where Worked
North Sea, Atlantic Ocean, Mediterranean,
Pacific Ocean

**Regional/International
Program Participation**
ICES, IOC, regional surveys of the North
Sea

Languages
German, English, French

Citizenship
Germany

Hagmeier, Erik Ludwig Gerrit

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Germany

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Degrees
Ph.D.

General Expertise
Ecology

Specialty
Blooms and environmental factors (light,
temperature, nutrients, stratification,
fronts, consumers)

**Toxic/Noxious Organisms
Worked With**
Coscinodiscus wailesii, *Phaeocystis glo-*
bosa, *Ceratium furca*, *Ceratium fusus*,
Gymnodinium aureolum

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
25

Where Worked
North Sea (mostly), Atlantic and Indian
Oceans

**Regional/International
Program Participation**
Cooperation between China and Germany
on red tide project

Languages
German, English, French

Citizenship
Germany

Hesse, Karl J.

Forschungs- und Technologie-
Zentrum Westküste
Universität Kiel
Hafentörn D-2242 Büsum
Germany

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Degrees
M.Sc., Ph.D.

General Expertise
Biology, ecology, taxonomy, management

Specialty
Genesis of mass development; risk assess-
ment, taxonomic identification, life strat-
egies, ecological implications

**Toxic/Noxious Organisms
Worked With**
Dinophysis spp., *Phaeocystis* sp., *Prym-*
nesium parvum, *Alexandrium* sp., *Pseudo-*
nitzschia sp.

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
9

Where Worked
North Sea, Atlantic coast of France, Bal-
tic Sea

**Regional/International
Program Participation**
TRANSWATT, Ecosystems Research,
Wadden Sea Project

Languages
English, French, German

Citizenship

Germany

Horstmann, Ulrich

Senior scientist
Institute für Meereskunde
an der Universität Kiel
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Germany

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Degrees
Ph.D.

General Expertise
Biology, physics, ecology, taxonomy

Specialty
Monitoring phytoplankton and eutrophica-
tion; primary productivity; oxygen defi-
ciency; remote sensing of phytoplankton

**Toxic/Noxious Organisms
Worked With**
Chrysochromulina, *Pseudonitzschia* and
others

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Baltic Sea, Mediterranean Sea, Philippines

**Regional/International
Program Participation**
Helsinki Commission European Union -
Environment

Languages
German, English, Swedish, Italian

Citizenship
Germany

Jochem, Frank J.

Research scientist
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an der Universität Kiel
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Germany

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Degrees
Dipl. Biol.

General Expertise
Biology, ecology

Specialty
Phytoplankton and microbial food web
studies in the Baltic Sea; survey of toxic/
harmful *Chrysochromulina* bloom

**Toxic/Noxious Organisms
Worked With**
Chrysochromulina, *Pavlova*

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
3

Where Worked
Baltic

**Regional/International
Program Participation**

Languages
German, English, French

Citizenship
Germany

Germany

Lenz, Jürgen

Professor
Institute für Meereskunde
an der Universität Kiel
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Germany

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Degrees
Ph.D.

General Expertise
Ecology

Specialty
Ecology of marine plankton; environmental conditions favoring development of algal blooms

Toxic/Noxious Organisms Worked With
Blue-green algae, dinophyceae

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
30

Where Worked
Baltic Sea, North Sea, North Atlantic

Regional/International Program Participation
ICE WG on Phytoplankton Ecology and HABs; International Research Project on Phaeocystis Blooms in the Southern North Sea

Languages
German, English

Citizenship
Germany

Luckas, Bernd

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Degrees
Ph.D.

General Expertise
Chemistry, toxicology, fisheries, public health

Specialty
Development of new analytical methods for detection and quantitative determination of phycotoxins

Toxic/Noxious Organisms Worked With
Marine algae, mussels, shellfish

Toxins Worked With
PSP, DSP, blue-green algae toxins

Years of Experience with Toxic Algae/Biotoxins
8

Where Worked
Europe

Regional/International Program Participation
EC programme

Languages
German, English

Citizenship
Germany

Matern, Ulrich

Research Scientist, Group Leader
Lehrstuhl für Biochemie der Pflanzen
Institut für Biologie II
Universität Freiburg
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Germany

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Degrees
Ph.D.

General Expertise
Biology, chemistry, pharmacology

Specialty
Biochemistry of toxins (biosynthesis, turnover, etc.); mode of toxin action; toxin analysis

Toxic/Noxious Organisms Worked With
Microcystis, *Gonyaulax*

Toxins Worked With
Microcystins, saxitoxins

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Germany, toxin collection in Spain

Regional/International Program Participation

Languages
German, English

Citizenship
Germany

Nehring, Stefan

Research scientist
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Germany

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Degrees
M.Sc.

General Expertise
Biology, ecology, taxonomy, aquaculture, public health, monitoring

Specialty
Taxonomic classification of nuisance species in temperate regions; risk assessment for *Dinophysis* spp., *Gymnodinium catenatum*, *Alexandrium* spp., *Cyanophyceae* species; methods of cyst sampling and cultivation; cyst taxonomy

Toxic/Noxious Organisms Worked With
Nodularia spumigena, *Gymnodinium catenatum*, *Dinophysis* spp., *Alexandrium* spp., *Phaeocystis* spp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
5

Where Worked
North Sea, Baltic Sea

Regional/International Program Participation
Ecosystem Research Wadden Sea Project

Languages
German, English

Citizenship
German

Germany

Roenneberg, Till

Associate professor
Institut für Medizinische Psychologie
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Germany

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till@tango.imp.med.uni-muenchen.edu

Degrees
Ph.D.

General Expertise
Biology, ecology, physiology, public health

Specialty
Circadian timing systems of *Gonyaulax polyedra*; physical and physiological mechanisms of vertical migration; near-surface aggregation and phototaxis; physiology of daily photosynthetic and nitrogen use

Toxic/Noxious Organisms Worked With
Gonyaulax polyedra, cyanobacteria

Toxins Worked With
Okadaic acid as a substance that influences the circadian system

Years of Experience with Toxic Algae/Biotoxins
9

Where Worked
U.S. East Coast, Bahamas

Regional/International Program Participation

Languages
German, English, French

Citizenship
Germany

Wasmund, Norbert

Institut für Ostseeforschung
Sektion Biologische Meereskunde
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Germany

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wasmund@bio.10-warnemuende.d400.de

Degrees
Dr. rer. nat

General Expertise
Biology, ecology, taxonomy

Specialty
Phytoplankton monitoring in the Baltic Sea; ecology and physiology of bloom-forming algae

Toxic/Noxious Organisms Worked With
Nodularia spumigena

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
Baltic Sea

Regional/International Program Participation

Languages
German, English

Citizenship
Germany

Germany

Chorus, Ingrid

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Department of Drinking Water
Hygiene
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Degrees

Ph.D.

General Expertise

Biology, ecology, physiology,
toxicology, public health

Specialty

Work on secondary metabolites of algae
since 1987: taste and odor substances,
their elimination in drinking water
treatment; toxic blooms since 1992;
now coordination of a cooperative 3
year 5-institute programm on screening
of organotoxins and on ecological
causes and consequences

Toxic/Noxious Organisms

Worked With

Cyanobacteria

Toxins Worked With

Microcystins, anatoxin-a

Years of Experience with

Toxic Algae/Biotoxins

2-3

Where Worked

Berlin, Germany

Regional/International

Program Participation

See above

Languages

English, German, some French

Citizenship

U.S.A.

Greece

Economou-Amilli, Athena

Senior scientist
Department of Biology
Section of Ecology and Systematics
Institute of Systematic Botany
University of Athens
Panepistimiopolis
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Greece

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Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy

Specialty
Algal taxonomy and ecology and relevant experience in studies of dinoflagellates of inland and marine biotopes; diatoms from thermal springs of Greece; periphytic and planktonic algae (mainly diatoms, but also cyanophytes, dinoflagellates and green algae) from various habitats in Greece (lakes, springs, rice-fields, rivers, caves, lagoons, marine coasts, fossil sediments, volcanoes, soils)

Toxic/Noxious Organisms Worked With
Alexandrium spp., *Prorocentrum* spp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
2

Where Worked
Aegean and Ionian Sea (Greece), Mediterranean

Regional/International Program Participation

Languages
Greek, English, German

Citizenship
Greece

Ignatiades, Lydia

Principal research scientist
Institute of Biology
National Research Center Demokritos
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Greece

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Email:

Degrees
M.S., Ph.D.

General Expertise
Ecology, taxonomy

Specialty
Marine phytoplankton ecology; environmental parameters associated with red tides

Toxic/Noxious Organisms Worked With
Gymnodinium-like species

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
19

Where Worked
Aegean Sea, Eastern Mediterranean Sea

Regional/International Program Participation
Phytoplankton composition and related factors in Saronikos Gulf, Aegean Sea

Languages
Greek, English

Citizenship
Greece

Moustaka-Gouni, Maria

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Institute of Botany
School of Biology
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Fax: 30-31-1998389 or
30-31-261494
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Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy

Specialty
Algal blooms

Toxic/Noxious Organisms Worked With
Microcystis spp., *Anabaena* spp., *Prymnesium parvum*, *Gymnodinium* cf. *breve*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Greece

Regional/International Program Participation

Languages
English

Citizenship
Greece

Greece

Nikolaidis, Georgios

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Department of Botany
School of Biology
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Greece

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Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy, aquaculture

Specialty
Algal blooms; ecology

Toxic/Noxious Organisms Worked With
Gymnodinium cf. *breve*, *Alexandrium minutum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
8

Where Worked
Eastern Mediterranean

Regional/International Program Participation

Languages
Greek, German

Citizenship
Greece

Guatemala

Canahui-Carillo, Eugenia

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Unified Food and Drug Control
Laboratory (LUCAM)
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Guatemala

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723762-67 ext 456
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Fax: 502-2-736529
Email:

Degrees

B.Sc.

General Expertise

Chemistry, toxicology, residue analysis

Specialty

Residue analysis (pesticides, heavy metals, mycotoxins, shellfish toxins and others); recognition and investigation of PSP in Guatemala; developing and maintaining PSP monitoring programs; mouse bioassay and HPLC assay for saxitoxins

Toxic/Noxious Organisms Worked With

Pyrodinium bahamense, clams, mussels and snails

Toxins Worked With

Saxitoxins

Years of Experience with Toxic Algae/Biotoxins

7

Where Worked

Pacific coast of Guatemala and Central America

Regional/International Program Participation

Central American Network on Marine Toxins

Languages

Spanish, English

Citizenship

Guatemala

de Camos, Marit

PAHO/WHO Consultant
in Food Protection
Pan American Health Organization
Edificio Etisa, 3rd Floor
Palzuela Espana, Zone 9, Guatemala
Guatemala

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Fax: 502-2-343804
Email:

Degrees

Chemical engineer

General Expertise

Chemistry, ecology, toxicology, public health

Specialty

Saxitoxin analysis

Toxic/Noxious Organisms Worked With

Toxins Worked With

Saxitoxins

Years of Experience with Toxic Algae/Biotoxins

7

Where Worked

Central America

Regional/International Program Participation

Red Sub-Regional de Vigilancia y Control de Toxinas Marinas

Languages

English, Spanish, French, Norwegian

Citizenship

Norway

Velasquez, Otto Hugo

Chief, Epidemiology Division
Ministry of Public Health
9 Ave. 14-65, Zona 1
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Guatemala

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Fax: 741112 or 29303
Email:

Degrees

M.P.H., M.D.

General Expertise

Ecology, taxonomy, public health

Specialty

Pyrodinium red tides in Guatemala in 1987, 1989, and 1992; diatom bloom in Golfo Fonseca, Honduras, in 1992

Toxic/Noxious Organisms Worked With

Dinoflagellates

Toxins Worked With

Paralytic shellfish toxins

Years of Experience with Toxic Algae/Biotoxins

7

Where Worked

Guatemala, Honduras, El Salvador

Regional/International Program Participation

Pacific Ocean, Central America

Languages

Spanish, English

Citizenship

Guatemala

India

Devassy, Veliyath Paul

Assistant director
National Institute of Oceanography
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India

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0194-316 MGG IN
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Email: nicmail.goa.nio
4044 0550094200

Degrees
M.Sc., Ph.D.

General Expertise
Biology, ecology, fisheries

Specialty
Experience with biology and ecology of blue-green algae (*Trichodesmium erythraeum*), dinoflagellates (*Noctiluca scintillans*) and diatoms (*Rhaphoneis surirelloides*)

Toxic/Noxious Organisms Worked With
Noctiluca scintillans and *Pedinomonas noctilucae*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
20

Where Worked
India

Regional/International Program Participation
Several involving Australia, Japan, Mauritius, Malaysia, and India

Languages
English

Citizenship
India

Karunasagar, Iddya

Chairman
Department of Fishery Microbiology
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India

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Email:

Degrees
M.Sc., Ph.D.

General Expertise
Biology, chemistry, ecology, taxonomy, toxicology, fisheries, aquaculture, public health

Specialty
Toxin profile of PSP in India; DSP, NSP, fish kills due to algal blooms

Toxic/Noxious Organisms Worked With
Alexandrium, *Dinophysis* spp., *Gymnodinium* sp., diatoms

Toxins Worked With
Paralytic, diarrhetic and neurotoxic shell fish toxins

Years of Experience with Toxic Algae/Biotoxins
11

Where Worked
India

Regional/International Program Participation
International conference on toxic phytoplankton

Languages
English, Hindi, German

Citizenship
India

Karunasagar, Indrani

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College of Fisheries
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575 002
India

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Email:

Degrees
B.Sc.Ed., M.Sc., Ph.D.

General Expertise
Ecology, toxicology, fisheries, aquaculture, public health

Specialty
PSP in India: monitoring toxins (with HPLC and mouse bioassay) and toxic dinoflagellates; fish and shrimp kills; DSP; NSP; eutrophication; public health microbiology and toxicology

Toxic/Noxious Organisms Worked With
Alexandrium spp., *Gymnodinium* spp., *Dinophysis* spp.

Toxins Worked With
PSP, DSP

Years of Experience with Toxic Algae/Biotoxins
11

Where Worked
India

Regional/International Program Participation
International conference on toxic phytoplankton

Languages
English, Hindi, French, Bengali

Citizenship
India

Addendum

Khan, M.A.

Associate professor
University of Kashmir
P.O. Box 726
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Kashmir
India

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Telex:
Fax:
Email:

Degrees
M.Sc., P.G.C.L., Ph.D.

General Expertise
Ecology, limnology

Specialty
Freshwater algae; ecological aspects of euglenoid red-bloom occurrence in flood plain lakes of Kashmir Himalayan Valley, India

Toxic/Noxious Organisms Worked With
Euglena pedunculata

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
20

Where Worked
Kashmir, India; Innsbruck, Austria; Nigeria; Libya

Regional/International Program Participation

Languages
English

Citizenship
India

India

Revikala, Satchithananda Pai

Chetna, 39/1847, Warriam Road
Kochi-682 016
Kerala
India

Telephone:
Telex:
Fax:
Email:

Degrees
M.Sc., Ph.D.

General Expertise
Biology, ecology, fisheries

Specialty
Diatom blooms and red tides caused by blue-green algae and dinoflagellates; seasonal occurrence of toxic and nontoxic blooms and their impact on pelagic fishes; zooplankton

Toxic/Noxious Organisms Worked With
Trichodesmium spp., *Noctiluca miliaris*, *Ceratium* spp., *Peridinium* spp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
11

Where Worked
Southwest coast of India, Arabian Sea

Regional/International Program Participation

Languages
English

Citizenship
India

Santhanam, Ramasamy

Professor, Head
Dept. of Fisheries Environment
Fisheries College and Research
Institute
Tamil Nadu Veterinary and
Animal Sciences University
Tuticorin, Tamil Nadu-628 008
India

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Email:

Degrees
M.Sc., Ph.D.

General Expertise
Ecology, taxonomy, fisheries, aquaculture

Specialty
Taxonomy and ecology of marine phytoplankton including harmful algal species for 24 years; courses and student guidance on marine ecological aspects. Published many research papers on marine phytoplankton

Toxic/Noxious Organisms Worked With
Trichodesmium erythraeum, *T. thiebautii*, *Dinophysis caudata* and certain diatom species

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
15

Where Worked
Bay of Bengal, Gulf of Mannar in the East coast of India

Regional/International Program Participation
Workshop/training sponsored by IOC on harmful algal blooms (Bremerhaven, 1992); VII International Conference on Toxic Phytoplankton (Sendai, Japan, 12-16 Jul. 95)

Languages
English

Citizenship
India

Indonesia

Adnan, Quraisyin

Research scientist
Research Staff of Planktology
Center for Oceanological Research
and Development - LIPI
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P.O. Box 580 DAK
Jakarta 11001
Indonesia

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Telex: 62875 PDII-IA
Fax: 021-681948
Email:

Degrees
M.Sc.

General Expertise
Biology, ecology, taxonomy

Specialty
Experience mostly in ecology of phytoplankton in Jakarta Bay, Indonesia

Toxic/Noxious Organisms Worked With
Noctiluca scintillans, *Gonyaulax polygramma*, *Pyrodinium bahamense* var. *compressum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Western areas of Indonesia primarily, some work in eastern Indonesia

Regional/International Program Participation
Australia, Japan, Brunei, Malaysia, Thailand

Languages
Indonesian, English

Citizenship
Indonesia

Mangindaan, Remy

Lecturer
Faculty of Fisheries
Sam Ratulangi University
Jl. Kampus UNSRAT
Manado, North Sulawesi 95115
Indonesia

Telephone: 431-68027
Telex:
Fax:
Email:

Degrees
Ph.D.

General Expertise
Toxicology, fisheries

Specialty
Isolation of dinoflagellate growth inhibitor; a bacterium hostile to dinoflagellates

Toxic/Noxious Organisms Worked With
Chattonella antiqua, *Gymnodinium breve*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
Japan, Indonesia

Regional/International Program Participation

Languages
English

Citizenship
Indonesia

Ngurah-Nyoman, Wiadnyana

Research scientist
Indonesian Institute of Sciences,
LIPI, PPPO
Division of Marine Resources R&D
Guru-Guru, Poka
Ambon 97233
Indonesia

Telephone: 62-911-69352
Telex:
Fax: 62-911-69281
Email:

Degrees
Ph.D.

General Expertise
Ecology, fisheries

Specialty
Ecology of plankton; plankton dynamics and food webs; HABs in eastern Indonesia

Toxic/Noxious Organisms Worked With
Pyrodinium bahamense var. *compressum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
2

Where Worked
Indonesian waters

Regional/International Program Participation

Languages
Indonesian, French, English

Citizenship
Indonesia

Indonesia

Siregar, Syamaruddin

Research scientist
Laboratory of Fish Disease
and Parasites
Riau University
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Pekanbaru 28131
Indonesia

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Email:

Degrees
Ph.D.

General Expertise
Biology, ecology, physiology, fisheries, aquaculture

Specialty

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

Where Worked
Dulacca Strait

Regional/International Program Participation

Languages
English

Citizenship

Indonesia

Ermaitis

Research scientist
Research and Development
Centre for Oceanology - LIPI
Jl. Pasir Putih 1, Ancol Timur
Jakarta, DKI Jakarta 14430
Indonesia

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Fax: 62-21-681948
Email:

Degrees

General Expertise

Ecology, taxonomy, toxicology

Specialty

I have been working on general
phytoplankton and found *Noctiluca* in
Jakarta Bay in 1993. Now I think we
have to study taxonomy and toxicity of
phytoplankton

Toxic/Noxious Organisms
Worked With

Toxins Worked With

Years of Experience with
Toxic Algae/Biotoxins

Where Worked

Regional/International
Program Participation
Training on red tide phytoplankton,
Jakarta, 1992; IOC-WESTPAC training
workshop on monitoring of PSP
plankton and shellfish toxicity, 17-21
July 1995, School of Fisheries
Sciences, Kitasato University in
Sanriku, Iwate, Japan

Languages

Indonesian, English

Citizenship

Indonesia

Praseno, Djoko
Prawoto

Research scientist
Research and Development
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Sciences
Jakarta, DKI Jakarta 14430
Indonesia

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Email:

Degrees

General Expertise

Biology, taxonomy, management

Specialty

Dinoflagellates

Toxic/Noxious Organisms
Worked With

Mostly dinoflagellates

Toxins Worked With

Years of Experience with
Toxic Algae/Biotoxins

4

Where Worked

Jawa Sea, mainly Jakarta Bay

Regional/International
Program Participation

Asean-Canada, APEC

Languages

English

Citizenship

Indonesia

Sidabutar, Tumpak

Research scientist
Centre for Oceanology
Indonesian Institute of
Sciences R&D
LIPI - Poka
Ambon 97233
Indonesia

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Fax: 001-62-69281
Email:

Degrees

General Expertise

Ecology, fisheries, aquaculture

Specialty

Toxic/Noxious Organisms
Worked With

Pyrodinium bahamense var.
compressum

Toxins Worked With

Years of Experience with
Toxic Algae/Biotoxins

1

Where Worked

Kao Bay, Ambon Bay (Indonesia)

Regional/International
Program Participation

Training workshop on monitoring of
PSP plankton and shellfish toxicity,
17-21 July 1995

Languages

Citizenship

Indonesia

Indonesia

Wiadnyana, Ngurah-
Nyoman

Research scientist
Division of Marine Resources
Research and Development
Research and Development
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Sciences
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Fax: 62-911-69-281
Email:

Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy

Specialty

More than 10 years experience of
working on plankton ecology; working
on HAB phytoplankton since 1993

Toxic/Noxious Organisms
Worked With

Pyrodinium bahamense var.
compressum

Toxins Worked With

Years of Experience with
Toxic Algae/Biotoxins

2

Where Worked

Eastern Indonesian waters

Regional/International
Program Participation

Languages

Indonesian, English

Citizenship

Indonesia

Ireland

James, Kevin J.

Senior lecturer
Cork RTC
Chemistry Department
Rossa Avenue, Bishopstown
Cork
Ireland

Telephone: 353-21-545222
Telex:
Fax: 353-21-545343
Email:

Degrees

B.Sc., Ph.D.

General Expertise

Chemistry, toxicology

Specialty

DSP toxin identification by HPLC (okadaic acid, dinophysistoxin 2); also, ELISA and bioassay methods for PSP toxins; cyanobacterial toxins - HPLC methods; doctoral research programs on algal toxins

Toxic/Noxious Organisms

Worked With

Dinophysis, *Microcystis*, *Anabaena*, *Aphanizomenon*, mussels, oysters

Toxins Worked With

Okadaic acid, DTX-2, saxitoxin, neosaxitoxin, anatoxins, microcystins

Years of Experience with Harmful Algae/Biotoxins

5

Where Worked

Ireland

Regional/International Program Participation

Director of national program studying cyanobacterial toxins in water supplies

Languages

English, French

Citizenship

Ireland

Murphy, Matt

Director
Sherkin Island Marine Station
Sherkin Island, Co. Cork
Ireland

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Telex:
Fax: 353-28-20405
Email:

Degrees

General Expertise

Ecology, taxonomy, toxicology, aquaculture, management

Specialty

Overview of situations: owner/director of Sherkin Island Marine Station; on-going monitoring program on plankton since 1978; 1st and 2nd Algal Bloom Workshop in 1987 and 1989 and published proceedings; Red Tide Newsletter (published quarterly)

Toxic/Noxious Organisms

Worked With

Dinophysis spp., *Gyrodinium* spp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

14

Where Worked

Ireland, Chile, Norway

Regional/International Program Participation

Southwest coast of Ireland

Languages

English

Citizenship

Ireland

O'Mahoney, Jacqueline H.T.

Botanist
Department of the Marine
Fisheries Research Centre
Abbotstown, Dublin 15
Ireland

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Email:

Degrees

B.Sc., Ph.D.

General Expertise

Ecology, taxonomy, biology, aquaculture, public health, oceanography

Specialty

Phytoplankton ecology and taxonomy in estuarine and coastal waters

Toxic/Noxious Organisms

Worked With

Gymnodinium aureolum, *Alexandrium tamarense*, *Dinophysis acuminata*, *D. acuta*, *Prorocentrum lima*, *Chrysochromulina* sp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

11

Where Worked

Northeast Atlantic, Irish estuaries and coastal waters

Regional/International Program Participation

Languages

English, French

Citizenship

Ireland

Israel

Angel, Dror

Research scientist
Israel Oceanographic
and Limnological Research, Inc.
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Israel

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Email: tandler@hujiagri.huji.ac.il

Degrees
Ph.D.

General Expertise
Biology, ecology, physiology, aquaculture

Specialty
Ecology and physiology of dinoflagellates
and diatoms in the Gulf of Aqaba (Red
Sea) and in marine fish ponds

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**

Where Worked
North Atlantic Ocean, Mediterranean Sea,
Gulf of Aqaba (Red Sea)

**Regional/International
Program Participation**
Mediterranean Action Plan

Languages
English, Hebrew

Citizenship
United States, Israel

Berman, Thomas

Director
Kinneret Limnological Laboratory
P.O. Box 345
Tiberias 14102
Israel

Telephone: 972-6-721444
Telex:
Fax: 972-6-724627
Email: kinneret@datasrv.co.il

Degrees
B.Sc., Ph.D.

General Expertise
Ecology

Specialty
General limnology and aquatic microbi-
ology; excessive numbers of dinoflagel-
late blooms

**Toxic/Noxious Organisms
Worked With**
Freshwater dinoflagellates

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
27

Where Worked
Israel, United States (California, Hawaii,
New Hampshire), Chile, Japan

**Regional/International
Program Participation**

Languages
English, Russian, German, French, He-
brew

Citizenship
Israel

Gordin, Hillel

Director
National Center for Mariculture
Israel Oceanographic
and Limnological Research
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Israel

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Email:

Degrees
M.Sc.

General Expertise
Biology, ecology, fisheries, aquaculture

Specialty
No working experience with red tides, but
interested in the potential appearance of
the red tide phenomenon in the Gulf of
Aqaba because of pollution; would like to
maintain an awareness of recent develop-
ments in the field

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**

Where Worked
California, Red Sea

**Regional/International
Program Participation**

Languages
English, Hebrew

Citizenship
Israel

Israel

Kimor, Baruch

Research scientist
Faculty of Agricultural Engineering
Technion-Israel Institute of Technology
Technion City
Haifa 32000
Israel

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Telex: TECON IL 46406
Fax: 972-4-221529
Email:

Degrees
M.Sc., Ph.D.

General Expertise
Biology, ecology, taxonomy, fisheries

Specialty
Prymnesium parvum, a euryhaline hapto-
phytic whose exotoxin is lethal to artifi-
cial fish ponds; *Prorocentrum minimum*,
indirectly toxic to humans through mussel
consumption.

**Toxic/Noxious Organisms
Worked With**
Prymnesium parvum, *Prorocentrum mini-*
imum

Toxins Worked With
Prymnesium parvum, *Prorocentrum mini-*
imum, *Protoperdinium* spp.

**Years of Experience with
Toxic Algae/Biotoxins**
40

Where Worked
Inland brackish water fish ponds in Israel;
Eastern Mediterranean; Baltic Sea

**Regional/International
Program Participation**

Languages
Hebrew, English, French, German, Roma-
nian, Italian, Spanish

Citizenship
Israel

Pollinger, Utsa

Senior research scientist
Kinneret Limnological Laboratory
Israel Oceanographic
and Limnological Research
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Israel

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Email:

Degrees
M.Sc., Ph.D.

General Expertise
Biology, ecology

Specialty
Freshwater dinoflagellates and their repro-
duction strategies, growth and population
dynamics; dinoflagellate cysts in sedi-
ments and their role in the development of
water blooms

**Toxic/Noxious Organisms
Worked With**
Freshwater dinoflagellates

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
30

Where Worked
Israel, Germany, Switzerland

**Regional/International
Program Participation**

Languages
Hebrew, English, French, Russian, Roma-
nian

Citizenship
Israel

Italy

Ascioti, Fortunato A.

Post-doctoral fellow
Istituto di Metodologie Avanzate
di Analisi Ambientale
Via S. Loja (Zona Industriale)
85050 Tito Scalo (PZ)
Italy

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Degrees
Ph.D.

General Expertise
Ecology, quantitative analysis

Specialty
Statistical analysis (linear and nonlinear) of red tide population oscillations; chaos detection; some modeling of red tide blooms; physical-biological coupling

Toxic/Noxious Organisms Worked With
Alexandrium fundiense

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
2

Where Worked
Bay of Fundy, Hong Kong

Regional/International Program Participation

Languages
English, Spanish, French

Citizenship
Italy

Bruno, Milena

Research scientist
Laboratory of Environmental Hygiene
Istituto Superiore di Sanità
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Italy

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Email:

Degrees
Ph.D.

General Expertise
Biology, ecology, physiology, toxicology, fisheries, public health

Specialty
Algal ecology in lakes, laboratory research on algal growth and products in eutrophic conditions, environmental factors influencing toxin production in algae

Toxic/Noxious Organisms Worked With
Alexandrium polyedra, *Dinophysis fortii*, *Mytilus galloprovincialis*, *Microcystis aeruginosa*, *Oscillatoria rubescens*

Toxins Worked With
Microcystins, saxitoxins, anatoxin A, okadaic acid, domoic acid

Years of Experience with Toxic Algae/Biotoxins
5

Where Worked
Italy, Adriatic Sea, Tyrrhenian Sea

Regional/International Program Participation
EEC Convention project MARE, Adriatico - MURST

Languages
English, French, Spanish

Citizenship
Italy

Cabrini, Marina

Researcher
Laboratory of Marine Biology (LBM)
Strada Costiera 336, S. Croce
34010 Trieste
Italy

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Telex:
Fax: 39-40-22-4437
Email:

Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy, toxicology

Specialty
Phytoplankton taxonomy and successions; structure of relationships between toxic dinoflagellates and DSP toxins in seawater and mussels

Toxic/Noxious Organisms Worked With
Alexandrium spp., *Dinophysis* spp., *Mytilus galloprovincialis*, *Ostrea crassostrea*

Toxins Worked With
DSP

Years of Experience with Toxic Algae/Biotoxins
9

Where Worked
Adriatic Sea (Gulf of Trieste); Strait of Magellan

Regional/International Program Participation
Regional programs on toxic species in the Northern Adriatic Sea, including phytoplankton monitoring programs sponsored by the Merchant Navy

Languages
Italian, English

Citizenship
Italy

Caroppo, Carmela

Research scientist
Istituto Sperimentale Talassografico
Via Roma, 3
74100 Taranto
Italy

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Fax: 39-99-459-4811
Email:

Degrees
Ph.D.

General Expertise
Ecology, taxonomy, aquaculture, public health

Specialty
Algal ecology in the Ionian Sea and southern Adriatic Sea

Toxic/Noxious Organisms Worked With
Dinophysis spp., *Gonyaulax polyedra*, *Prorocentrum* spp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
Ionian and South Adriatic Seas

Regional/International Program Participation
Regional programs on *Dinophysis* in Apulian waters and on eutrophication in the southern Adriatic Sea

Languages
English, Italian

Citizenship
Italy

Italy

Cok, Sara

Researcher
Laboratory of Marine Biology (LMB)
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34010 Trieste
Italy

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Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy

Specialty
Determination of potentially toxic algae in water samples and in the digestive glands of *Mytilus galloprovincialis*; statistical analyses on algal and physical-chemical data; research of the relations between potentially toxic species and DSP toxicity in mussels

Toxic/Noxious Organisms Worked With
Dinophysis spp., *Mytilus galloprovincialis*

Toxins Worked With
DSP

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
Adriatic Sea

Regional/International Program Participation
Programs of the Regional Administration of Friuli Venezia Giulia

Languages
Italian, English, Slovene

Citizenship
Italy

Della Loggia, Roberto

Professor
Istituto di Farmacologia
e Farmacognosia
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I-34127 Trieste
Italy

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Fax: 39-40-57-435
Email:

Degrees
Chemistry

General Expertise
Toxicology, public health

Specialty
DSP toxins; evaluation of DSP contamination in molluscs; mouse bioassay; immunochemical assays; cytotoxicity assays; relationship between algal presence and mussel toxicity

Toxic/Noxious Organisms Worked With
Dinophysis spp.

Toxins Worked With
Okadaic acid

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
Northern Adriatic Sea

Regional/International Program Participation
WHO-MED POL

Languages
German, English, French, Italian

Citizenship
Italy

Italy

Honsell, Giorgio

Professor
Sezione di Fisiologia
e Biochimica Vegetale
Università di Udine
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39-405-68855

Email:

Degrees

General Expertise

Biology, ecology, taxonomy

Specialty

body Taxonomy of dinoflagellates; electron microscopy; ecology and physiology of dinoflagellates

Toxic/Noxious Organisms Worked With

Dinophysis, *Alexandrium*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Mediterranean Sea

Regional/International Program Participation
French-Italian Cooperation on Toxic Microalgae (taxonomy); toxic phytoplankton in the Gulf of Trieste (Adriatic Sea)

Languages
English

Citizenship
Italy

Marino, Donato

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Stazione Zoologica Anton Dohrn
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80121 Napoli
Italy

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Telex: 720256 SZN/I
Fax: 39-81-7641355

Email:

Degrees

Doctor in Natural Sciences

General Expertise

Biology, ecology, taxonomy

Specialty

Phytoplankton succession and bloom occurrences; taxonomy of toxic species

Toxic/Noxious Organisms

Worked With

Alexandrium spp., *Gymnodinium catenatum*, *Dinophysis*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
Mediterranean Sea

Regional/International Program Participation
French-Italian Cooperation on Toxic Phytoplankton

Languages
Italian, English

Citizenship
Italy

Montresor, Marina

Research scientist
Stazione Zoologica Anton Dohrn
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80121 Napoli
Italy

Telephone: 39-81-5833259
Telex: 720256 SZN/I
Fax: 39-81-7641355

Email:

Degrees

Ph.D.

General Expertise

Ecology, taxonomy, physiology

Specialty

Dinoflagellates: taxonomy, life cycles, and resting cysts; culture techniques; SEM-TEM techniques

Toxic/Noxious Organisms

Worked With

Alexandrium, *Dinophysis*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
Mediterranean Sea

Regional/International Program Participation
French-Italian Cooperation on Toxic Phytoplankton

Languages
Italian, English

Citizenship
Italy

Italy

Nichetto, Paola

Research scientist
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Degrees

Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Physiology of dinoflagellates regarding the encystment aspects; ecology of *Dinophysis* species and their relation to mussels

Toxic/Noxious Organisms

Worked With

Cysts of dinoflagellates, species belonging to *Dinophysis*, *Mytilus gallo-*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
Adriatic Sea, Mediterranean Sea

Regional/International Program Participation
Projects financed by the regional administration of Friuli Venezia Giulia

Languages
English, French

Citizenship
Italy

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Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy

Specialty

Biology, ecology, and taxonomy of *Dinophysis* species and their relationship with *Mytilus galloprovincialis*

Toxic/Noxious Organisms

Worked With

Species of *Dinophysis*, *Mytilus galloprovincialis*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
Adriatic Sea, Mediterranean Sea

Regional/International Program Participation
Projects financed by the regional administration of Friuli-Venezia Giulia

Languages
English, French

Citizenship
Italy

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Degrees

B.Sc., M.S., Ph.D.

General Expertise

Toxicology, public health

Specialty

DSP toxins: evaluation of DSP contamination in molluscs; mouse bioassay; immunoenzymatic assays; cytotoxicity assays; relationship between algal presence and mussel toxicity

Toxic/Noxious Organisms Worked With

Dinophysis spp.

Toxins Worked With
Okadaic acid

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
Northern Adriatic Sea

Regional/International Program Participation
WHO-MED POL

Languages
English, Italian

Citizenship
Italy

Italy

Volterra, Laura

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Italy

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Degrees

Ph.D.

General Expertise

Public health

Specialty

Health aspects related to toxic algae measured by bioassay and chemical analysis performed on shellfish homogenate and on algal concentrates, also isolated and cultivated in laboratory

Toxic/Noxious Organisms Worked With

Shellfish and drinking water in the case of freshwater cyanophytes

Toxins Worked With

PSP, DSP, hepatotoxin

Years of Experience with Toxic Algae/Biotoxins

10

Where Worked

Adriatic Sea; freshwater locations in Italy where cyanophytes occur

Regional/International Program Participation

EEC Project MARE, environment section; health section of the Italian CNR project for the Adriatic region

Languages

English

Citizenship

Italy

Zingone, Adriana

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Degrees

Ph.D.

General Expertise

Ecology, taxonomy

Specialty

Distribution and taxonomy of harmful phytoplankton species belonging to different algal groups: dinoflagellates, prymnesiophyceans, raphidophyceans, dictyochophyceans

Toxic/Noxious Organisms Worked With

Alexandrium, *Dinophysis*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

9

Where Worked

Mediterranean Sea

Regional/International Program Participation

French-Italian Cooperation on Toxic Phytoplankton

Languages

Italian, English

Citizenship

Italy

Japan

Adachi, Masao

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Laboratory of Aquatic
Environmental Science
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Degrees
Ph.D.

General Expertise
Biology, genetics, taxonomy, molecular
biology

Specialty
Molecular taxonomy of dinoflagellates
using r-DNA sequence and monoclonal
antibodies

**Toxic/Noxious Organisms
Worked With**
Alexandrium spp.

Toxins Worked With
PSP

**Years of Experience with
Toxic Algae/Biotoxins**
6

Where Worked
Japan

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

Aruga, Yusho

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Degrees
Ph.D.

General Expertise
Ecology, physiology, fisheries, aquaculture

Specialty
Ecophysiology of blooming algae

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
20

Where Worked
Pacific

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

Fukuyo, Yasuwo

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Science Center
The University of Tokyo
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Degrees
Doctor of Agriculture

General Expertise
Biology, ecology, taxonomy, fisheries

Specialty
Identification of harmful dinoflagellates;
taxonomy and ecology of the organisms
causing PSP, DSP, and ciguatera

**Toxic/Noxious Organisms
Worked With**
Alexandrium, *Dinophysis*, *Gambierdiscus*,
Gymnodinium

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
18

Where Worked
Western Pacific countries

**Regional/International
Program Participation**
IP-HAB, WESTPAC-HAB, GOOS

Languages
Japanese, English

Citizenship
Japan

Japan

Hayakawa, Yasuhiro

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Degrees
Ph.D.

General Expertise
Ecology, fisheries, monitoring

Specialty
Seasonal changes in nutrients and phy-
toplankton in estuaries; modeling algal
blooms; environmental and biological fac-
tors including encystment and excystment
of dinoflagellates

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense, *Gymnodinium*
mikimotoi

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
5

Where Worked
Japan

**Regional/International
Program Participation**
Monitoring program for PSP in Iwate Pre-
ecture, Japan

Languages
Japanese, English

Citizenship
Japan

Hirayama, Kazutsugu

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Degrees
Doctor of Agriculture

General Expertise
Physiology, aquaculture

Specialty
Physiological aspects of the growth of
Gymnodinium

**Toxic/Noxious Organisms
Worked With**
Gymnodinium

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Japan

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

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Degrees
Doctor of Agriculture

General Expertise
Biology, ecology, physiology

Specialty
Life cycle strategies of raphidophycean
flagellates and diatoms, especially the role
of resting stage cells such as cysts and
spores in initiating red tides; physiology
and ecology of killer bacteria for red tide
organisms and control of red tide
occurrences by these bacteria

**Toxic/Noxious Organisms
Worked With**
Chattonella antiqua, *Chattonella marina*,
Heterosigma akashiwo, *Alexandrium* spp.,
Skeletonema costatum

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
14

Where Worked
Seto Inland Sea (Japan)

**Regional/International
Program Participation**
Technical development for ecological con-
trol of noxious red tides: 1989-1993, grant
from the Environmental Agency of Japan

Languages
Japanese, English

Citizenship
Japan

Japan

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Degrees
Ph.D.

General Expertise
Ecology, physiology, microbiology, molecular ecology

Specialty
Mechanisms of PSP synthesis in *Gymnodinium catenatum*, *Alexandrium tamarense*, and *Alexandrium catenella*; molecular taxonomy of dinoflagellates; algicidal microorganisms

Toxic/Noxious Organisms Worked With
Alexandrium spp., *Gymnodinium* spp., other dinoflagellates, *Heterosigma akashiwo*, *Chattonella* spp.

Toxins Worked With
PSP

Years of Experience with Toxic Algae/Biotoxins
30

Where Worked
Western Japan

Regional/International Program Participation

Languages
Japanese, English

Citizenship
Japan

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Degrees
Doctor of Agriculture

General Expertise
Physiology

Specialty
Mechanism of fish kills by *Chattonella*, mainly from physiological viewpoint

Toxic/Noxious Organisms Worked With
Chattonella sp., yellowtail fish (*Seriola quinqueradiata*)

Toxins Worked With
Oxygen radicals

Years of Experience with Toxic Algae/Biotoxins
7

Where Worked
Japan

Regional/International Program Participation

Languages
Japanese, English

Citizenship
Japan

Itakura, Shigeru

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Degrees
Bachelor of Agriculture

General Expertise
Biology, ecology, taxonomy

Specialty
Identification, isolation, enumeration of resting stage cells (cysts) of red tide organisms (especially planktonic diatoms)

Toxic/Noxious Organisms Worked With
Chattonella sp., *Alexandrium tamarense*, *Heterosigma akashiwo*, *Skeletonema costatum*

Toxins Worked With
None

Years of Experience with Toxic Algae/Biotoxins
8

Where Worked
Seto Inland Sea (Japan)

Regional/International Program Participation
Technical development for ecological control of noxious red tide (1989-1994)

Languages
Japanese, English

Citizenship
Japan

Kelly, Janet

1655 Sata, Tamaki-cho
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Japan

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Degrees
M.M.A.

General Expertise
Introduced species, marine policy

Specialty
Introduction of non-native organisms via cargo ship ballast waters

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
U.S. Pacific Northwest

Regional/International Program Participation

Languages
Japanese, English

Citizenship
United States

Kodama, Masaaki

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Biological Chemistry
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Degrees
Ph.D.

General Expertise
Biology, chemistry, physiology, toxicology, fisheries, public health, food chemistry

Specialty
Toxic dinoflagellates that cause PSP; metabolism and biological role of toxins in toxin-producing organisms

Toxic/Noxious Organisms Worked With
Alexandrium spp., *Gymnodinium catenatum*, *Pyrodinium bahamense*, scallop, puffer

Toxins Worked With
Paralytic shellfish toxins, tetrodotoxin

Years of Experience with Toxic Algae/Biotoxins
14

Where Worked
Japan, Southeast Asia

Regional/International Program Participation
Overseas surveys supported by Japanese Ministry of Education, Science and Culture; WESTPAC

Languages
Japanese, English

Citizenship
Japan

Koike, Kazuhiko

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Degrees
M.S.

General Expertise
Biology, ecology, taxonomy, physiology

Specialty
Culture studies of benthic dinoflagellates; ecological system research on benthic dinoflagellates using the results of culture studies; distributional surveys in Southeast Asia

Toxic/Noxious Organisms Worked With
Gambierdiscus toxicus, *Prorocentrum* spp., *Ostreopsis* spp.

Toxins Worked With
Okadaic acid

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
Mainly southern part of Japan, Southeast Asia

Regional/International Program Participation
Mechanisms of bloom and spread of toxic red tides in Southeast Asia

Languages
English, Japanese

Citizenship
Japan

Japan

Kotaki, Yuichi

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Biological Chemistry
School of Fisheries Science
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Degrees
Ph.D.

General Expertise
Biology, chemistry, fisheries, public health

Specialty
Analyses and structure determination of
PSP, TTX, and DA; etiological study of
toxins

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense, *Gymnodinium*
catenatum, toxic bacteria *Shewanella*, red
alga *Jania* sp., toxic xanthid crabs; toxic
marine snails, puffer fish, gobby fish

Toxins Worked With
Paralytic shellfish toxins, tetrodotoxins,
domoic acid

**Years of Experience with
Toxic Algae/Biotoxins**
15

Where Worked

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

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Research Institute
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Japan

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Email:

Degrees

General Expertise
Biology, ecology, management

Specialty
Management and arrangement of monitor-
ing systems for shellfish poisoning occur-
ring on the northeast coast of Japan

**Toxic/Noxious Organisms
Worked With**
Harmful algae

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**

Where Worked
Northeastern Pacific coast of Japan

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

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Research Institute
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Shiogama 985
Japan

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Degrees
Ph.D.

General Expertise
Biology

Specialty
Vertical distribution of chlorophyll-a and
phaeopigments

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**

Where Worked
Japan

**Regional/International
Program Participation**

Languages
Japanese

Citizenship
Japan

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Degrees
D.Sc.

General Expertise
Ecology, taxonomy

Specialty
Geographical and historical distribution of
modern dinoflagellate cysts including
harmful dinoflagellates in the western Pa-
cific

**Toxic/Noxious Organisms
Worked With**
Pyrodinium bahamense var. *compressum*,
Gymnodinium catenatum

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
15

Where Worked
Western Pacific

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

Japan

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Faculty of Applied Biological Science
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Degrees
Ph.D.

General Expertise
Chemistry, toxicology, fisheries, public
health

Specialty
Paralytic shellfish poison, *Alexandrium*
tamarense, *Alexandrium*

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense

Toxins Worked With
Paralytic shellfish poisons

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Japan

**Regional/International
Program Participation**
Harmful algal blooms in Hiroshima Bay
and Kure Bay

Languages
Japanese, English, German

Citizenship
Japan

Montani, Shigeru

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Department of Bioresource Science
Kagawa University
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Japan

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Degrees
Ph.D.

General Expertise
Biology, chemistry, ecology, fisheries,
aquaculture

Specialty
Biochemical oceanography, environmen-
tal marine biology

**Toxic/Noxious Organisms
Worked With**
Chattonella spp., *Gymnodinium* spp.,
Alexandrium spp.

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
15

Where Worked
Seto Inland Sea (Japan), Tokyo Bay,
Bangkok Bight

**Regional/International
Program Participation**
WESTPAC

Languages
Japanese, English

Citizenship
Japan

Japan

Nagai, Hiroshi

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Taiyo Central Research
and Development Institute
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Japan

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Degrees
Master of Agriculture

General Expertise
Chemistry, toxicology

Specialty
Bioactive compounds (including toxins)
from dinoflagellates, especially antifungal
compounds; polyether-type compounds

**Toxic/Noxious Organisms
Worked With**
Gambierdiscus toxicus and other di-
noflagellates

Toxins Worked With
Maitotoxin, tetrodotoxin

**Years of Experience with
Toxic Algae/Biotoxins**
2

Where Worked

**Regional/International
Program Participation**

Languages

Japanese, English

Citizenship
Japan

Nagasaki, Keizo

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Red Tide Research Division
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Degrees
Ph.D.

General Expertise
Biology, ecology, virology

Specialty
Viral mortality in red tides; mechanisms
of red tide disintegration

**Toxic/Noxious Organisms
Worked With**
Heterosigma akashiwo, *Chattonella*

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
9

Where Worked
Seto Inland Sea, Japan

**Regional/International
Program Participation**

Languages
English, Japanese

Citizenship
Japan

Noguchi, Tamao

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Fax: 03-5684-0622
Email:

Degrees

General Expertise
Chemistry, physiology, toxicology, public
health

Specialty
Domoic acid in Japanese red algae; causes
of mortality associated with ingestion of
red algae

**Toxic/Noxious Organisms
Worked With**
Red algae; pufferfishes, edible bivalves
and gastropods

Toxins Worked With
Domoic acid, PSP

**Years of Experience with
Toxic Algae/Biotoxins**
30

Where Worked
Japan

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

Ogawa, Kahoru

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of Water Pollution
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Degrees
Ph.D.

General Expertise
Taxonomy

Specialty
Monitoring red tides as pollution in To-
kyo Bay

**Toxic/Noxious Organisms
Worked With**
Nitzschia pungens

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**

Where Worked
Tokyo Bay

**Regional/International
Program Participation**

Languages
Japanese

Citizenship
Japan

Japan

Onoue, Yoshio

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Degrees
Ph.D.

General Expertise
Chemistry, toxicology
Chemistry, toxicology

Specialty
Characterization of toxins from harmful
phytoplankton; mass culture of these al-
gal cells; development of algicides for con-
trolling harmful algal blooms

**Toxic/Noxious Organisms
Worked With**
Chattonella marina, *Cochlodinium* sp.

Toxins Worked With
PSP- or NSP-related toxins

**Years of Experience with
Toxic Algae/Biotoxins**
16

Where Worked
Southern Japan

**Regional/International
Program Participation**
National program developing measures to
counteract harmful algal blooms

Languages
Japanese, English

Citizenship
Japan

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Degrees
B.A., M.A., Ph.D.

General Expertise
Biology, ecology, genetics, taxonomy,
toxicology, biochemistry, molecular biol-
ogy

Specialty
Molecular identification of harmful
microalgae; molecular ecology of toxic
microalgae; dinoflagellate biochemistry;
biochemistry of PSP toxin biosynthesis;
sexual reproduction of microalgae

**Toxic/Noxious Organisms
Worked With**
Alexandrium spp., *Gymnodinium cate-*
natum, *Gambierdiscus toxicus*

Toxins Worked With
GTXs, STXs, ciguatera toxins

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Japan, French Polynesia

**Regional/International
Program Participation**
Genetic ecology of microalgae causing
ciguatera in Tahiti; counterplanning for
protection of shellfish poisoning (Japan)

Languages
Japanese, English

Citizenship
Japan

Japan

Sato, Shigeru

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Degrees
Ph.D.

General Expertise
Chemistry, toxicology

Specialty
Analysis of marine toxins

**Toxic/Noxious Organisms
Worked With**
Puffer fishes, shellfish, algae

Toxins Worked With
PSP

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Japan, Philippines

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

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Degrees
Ph.D.

General Expertise
Chemistry

Specialty
Chromatographic analysis: lipid biochem-
istry

**Toxic/Noxious Organisms
Worked With**
Dinophysis spp., *Alexandrium* spp.

Toxins Worked With
DSP

**Years of Experience with
Toxic Algae/Biotoxins**
1

Where Worked
Japan

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

Takahashi, Masayuki

Associate professor
Botany Department
University of Tokyo
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Tokyo 113
Japan

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Degrees
Ph.D.

General Expertise
Biology, ecology

Specialty
Ecology and control of algal species in-
cluding red tide organisms in freshwater
and marine environments

**Toxic/Noxious Organisms
Worked With**
Microcystis aeruginosa, *Gymnodinium*,
Heterosigma akashiwo

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
15

Where Worked
Japan

**Regional/International
Program Participation**
Various regional research programs; Inter-
national Symposium on Red Tides

Languages
Japanese, English

Citizenship
Japan

Takano, Hideaki

Lecturer
Department Agriculture
and Fishery Science
Minami-sakasai 6-11-9
Kashiwa-shi, Chiba-ken, 277
Japan

Telephone: 0471-72-0608
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Email:

Degrees
Doctor of Agriculture

General Expertise
Biology, taxonomy, fisheries, aquaculture

Specialty
Marine plankton and diatoms

**Toxic/Noxious Organisms
Worked With**
Diatoms and dinoflagellates

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
40

Where Worked
Japan, Denmark, Australia

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

Japan

Takayama, Haruyoshi

Scientist
Hiroshima Fisheries
Experimental Station
Ondo-cho, Aki-gun
Hiroshima 737-12
Japan

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Email:

Degrees

General Expertise
Biology, taxonomy

Specialty

**Toxic/Noxious Organisms
Worked With**
Gymnodinium mikimotoi

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
25

Where Worked
Inland Sea of Japan

**Regional/International
Program Participation**

Languages
Japanese,
English

Citizenship

Tsuchiya, Haruhiko

Director
Food Production Division
1-3, Ichizenmatsu, Nakayama,
Atsumi-cho
Atsumi-gun, Aichi 441-36
Japan

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Degrees
Master of Fisheries

General Expertise
Ecology, fisheries

Specialty
Relationships among temperature, salinity,
planktonic conditions and the generation
of blooms in Mikawa Bay, Japan

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense, short-necked
clam

Toxins Worked With
Paralytic shellfish toxins

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Ise and Mikawa Bays (Central Japan)

**Regional/International
Program Participation**

Languages
Japanese, English

Citizenship
Japan

Japan

Uchida, Aritsune

Professor
Laboratory of Microbiology
Department of Fisheries
Faculty of Agriculture
Kyoto University
Oiwakecho, Kitashirakawa
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Japan

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Degrees

General Expertise

Biology, chemistry, physiology

Specialty

Application of monoclonal antibodies to identification of algae: PSP toxin in *Alexandrium* spp.

Toxic/Noxious Organisms Worked With

Alexandrium, *Chattonella*, *Gambierdiscus*

Toxins Worked With

Gonyautoxin, saxitoxin, ciguatera

Years of Experience with Toxic Algae/Biotoxins

10

Where Worked

western Japan, Tahiti

Regional/International Program Participation

Genetic ecology of microalgae causing ciguatera in Tahiti

Languages

Japanese, English, and French

Citizenship

Japan

Yamaguchi, Mineo

Senior scientist
Red Tide Research Division
Nansei National Fisheries
Research Institute
Ohno-cho, Saeki-gun
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Japan

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Degrees

Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Physiological ecology and life history of red tide organisms

Toxic/Noxious Organisms Worked With

Gymnodinium nugasakiense, *Chattonella antiqua*, *C. marina*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

10

Where Worked

Seto Inland sea (Japan)

Regional/International Program Participation

Languages

Japanese, English

Citizenship

Japan

Yamasaki, Makoto

Research scientist
Tohoku National Fisheries
Research Institute
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Shiogama 985
Japan

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Degrees

Ph.D.

General Expertise

Ecology, physiology, aquaculture

Specialty

Feeding ecology and digestive physiology of bivalves

Toxic/Noxious Organisms Worked With

Patinopecten, *Mytilus*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

Where Worked

Northern Japan

Regional/International Program Participation

Languages

Japanese, English

Citizenship

Japan

Yamochi, Susumu

Senior researcher
Osaka Prefectural Fisheries
Experimental Station
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Osaka 599-03
Japan

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Email:

Degrees

Doctor of Agriculture

General Expertise

Ecology, fisheries

Specialty

Environmental characteristics

Toxic/Noxious Organisms Worked With

Alexandrium tamarense, blue mussel

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

15

Where Worked

Osaka Bay

Regional/International Program Participation

Languages

Japanese, English

Citizenship

Japan

Japan

Yoshimatsu, Sadaaki

Senior research scientist
Akashiwo Research Institute
of Kagawa Prefecture
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Japan

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Degrees

Ph.D.

General Expertise

Biology, ecology, fisheries, aquaculture

Specialty

Life cycle of *Alexandrium catenella* and *A. tamarense*; culture of microflagellates; mass mortality of cultured fishes by *Chattonella antiqua* and *C. marina*

Toxic/Noxious Organisms Worked With

Chattonella antiqua, *C. marina*, *Gymnodinium mikimotoi*

Toxins Worked With

Alexandrium catenella, *A. tamarense*, *Gymnodinium catenatum*

Years of Experience with Toxic Algae/Biotoxins

17

Where Worked

Seto Inland Sea (Japan)

Regional/International Program Participation

Languages

Japanese

Citizenship

Japan

Japan

Watanabe, Makoto M.

Laboratory Chief
Environmental Microbiology
Laboratory
National Institute for
Environmental Studies
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Japan

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Degrees

D.Sc.

General Expertise

Ecology, taxonomy

Specialty

Fate of algal toxins in natural
environment; taxonomy of
cyanobacteria

Toxic/Noxious Organisms Worked With

Microcystis, *Oscillatoria*, *Anabaena*

Toxins Worked With

Microcystins

Years of Experience with Toxic Algae/Biotoxins

12

Where Worked

Japan

Regional/International Program Participation

First International Congress of Toxic
Cyanobacteria

Languages

Japanese, English

Citizenship

Japan

Yasuno, Masayuki

Director
Global Environment Research
Groups
National Institute for
Environmental Studies
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Ibaraki 305
Japan

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Email: m-yasuno@nies.go.jp

Degrees

D.Sc.

General Expertise

Biology, ecology, toxicology

Specialty

Limnology (ecosystem study through
phosphorous cycles); ecotoxicology
(emphasizing multispecies tests and
many studies with enclosures of various
size); working with individual species
of cladocerans but we should study total
effects of harmful algal bloom on
ecosystem and no one can give advice
on this level study in Japan

Toxic/Noxious Organisms Worked With

Cladocerans

Toxins Worked With

Microcystins or toxins to cladocerans

Years of Experience with Toxic Algae/Biotoxins

6-7

Where Worked

Japan

Regional/International Program Participation

Unfortunately, I am responsible on co-
ordination of many international
programmes other than algal bloom
(until next year)

Languages

Japanese, English

Citizenship

Japan

Kenya

Ochumba, Peter B.O.

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Kenya Marine and Fisheries
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KENYA

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Degrees
M.Sc.

General Expertise
Fisheries, aquaculture

Specialty
Blue-green algae; *Microcystis* sp.; *Anabaena* sp.

Toxic/Noxious Organisms Worked With
Microcystis aeruginosa

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Lake Victoria, Indian Ocean

Regional/International Program Participation

Languages
English, Kiswahili

Citizenship
Kenya

Latvia

Balode, Maija

Research scientist
Institute of Aquatic Ecology
University of Latvia
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317-9-345412
Email: maija@hydro.edu.lv

Degrees
M.S.

General Expertise
Ecology, taxonomy, monitoring

Specialty
Long-term studies of the phytoplankton ecology of the Baltic Sea (mostly in coastal areas of the Riga Gulf); the role of cyanobacteria in the phytoplankton succession; development of toxic or potentially toxic cyanobacteria in relationship with the environmental conditions (temperature, salinity, concentration of dissolved nutrients)

Toxic/Noxious Organisms Worked With
Nodularia spumigena, *Anabaena flos-aquae*, *Microcystis aeruginosa*, *Dinophysis* spp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
7

Where Worked
Baltic Sea (open sea, Gulf of Finland, Gulf of Riga)

Regional/International Program Participation
Ecological investigations of the Riga Gulf near shore

Languages
Latvian, Russian, German, English

Citizenship
Latvia

Druvietis, Ivars

Assistant
Institute of Biology
Laboratory of Hydrobiology
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Salaspils, LV-2169
Latvia

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Email:

Degrees

General Expertise
Hydrobiology, ecology, taxonomy

Specialty
Phytoplankton monitoring in Latvian lakes, big streams (River Daugava with their 3 reservoirs from 1980); phytoplankton and periphyton monitoring in small streams of Latvia; biomass, cell density, and species composition of phytoplankton and periphyton in relation to the pollution and environmental factors

Toxic/Noxious Organisms Worked With
Microcystis aeruginosa, *Anabaena spiroides*, *Aphanizomenon flos-aquae*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
15

Where Worked
Latvia, Estonia, Lithuania, northwest Russia

Regional/International Program Participation
Monitoring *Microcystis aeruginosa* bloom in Lake Burtnieku, Latvia

Languages
English, Russian

Citizenship
Latvia

Malaysia

Mohammad Noor, Normawaty

Postgraduate research assistant
Biology Department
Faculty of Science and
Environmental Studies
University of Agriculture
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Malaysia

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Degrees

Bac.Sc.(Hons)

General Expertise

Biology, ecology, taxonomy

Specialty

Biology and ecology of dinoflagellates
in tropical waters; identification using
compound microscope and SEM

Toxic/Noxious Organisms

Worked With

Noctiluca scintillans, *Alexandrium* spp.,
Prorocentrum micans, *Ceratium furca*

Toxins Worked With

PSP, DSP

Years of Experience with Toxic Algae/Biotoxins

1

Where Worked

South China Sea, straits of Malacca

Regional/International Program Participation

IOC-WESTPAC training workshop on
monitoring of PSP plankton and
shellfish toxicity in Sanriku, Iwate,
Japan

Languages

Malay, English

Citizenship

Malaysia

Mexico

Cortés-Altamirano, Roberto

Research scientist
Estación Mazatlán
Instituto de Ciencias del Mar
y Limnología
Universidad Nacional Autónoma
de México
Cerro del Creston y Expl.
de la Azada s/n
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México

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Fax: 91(69)826133
Email:

Degrees

M.Sc.

General Expertise

Ecology, taxonomy, toxicology, aquaculture

Specialty

Toxic/Noxious Organisms Worked With

Dinoflagellates, *Gymnodinium catenatum*, *Pyrodinium bahamense* var. *compressum* in *Crassostrea indecens*, *Prorocentrum minimum* in *Peneus vanamei*

Toxins Worked With

PSP, DSP

Years of Experience with Toxic Algae/Biotoxins

Where Worked

Mazatlán Bay, Mexican Pacific Ocean

Regional/International Program Participation

Red Tide in Mazatlán Bay-Program ICMYL-UNAM

Languages

Spanish

Citizenship

Puma B/O

Hernández-Becerril, David U.

Research scientist, lecturer
Lab. of Invertebrates
Fac. de Ciencias
UNAM,
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Degrees

B.Sc., M.Sc., Ph.D.

General Expertise

Ecology, taxonomy

Specialty

Species identification, especially diatoms and dinoflagellates; knowledge of general and special techniques and methods to collect and study planktonic algae; special skills in light and electron microscopy

Toxic/Noxious Organisms Worked With

Ciguatera (by *Gambierdiscus toxicus* or *Ostreopsis lenticularis*); poisoning by *Pyrodinium bahamense* and *Gymnodinium catenatum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

12

Where Worked

Pacific coast of Mexico (Baja California and Gulf of California); Mexican Caribbean coasts; Gulf of Mexico; Gulf of Tehuantepec

Regional/International Program Participation

Caribbean network on red tides

Languages

Spanish, English, Italian

Citizenship

Mexico

Lechuga-Deveze, Carlos

Department head
Division de Biología Experimental
Centro de Investigaciones Biológicas
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México

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Degrees

Ph.D.

General Expertise

Ecology, physiology, monitoring

Specialty

Primary productivity; ecophysiology of phytoplankton; biochemical composition of phytoplankton; biochemical-ecological studies on toxic phytoplankton

Toxic/Noxious Organisms Worked With

Prorocentrum micans, *Alexandrium catenella*, *Gymnodinium sanguineum*, *Argopecten circularis*, *Pinnia rugosa*

Toxins Worked With

PSP

Years of Experience with Toxic Algae/Biotoxins

2

Where Worked

Gulf of California

Regional/International Program Participation

Languages

French, English

Citizenship

Mexico

Ochoa, José-Luis

Research scientist
Experimental Biology Division
Center for Biological Research
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Degrees

Ph.D.

General Expertise

Biochemistry

Specialty

Monitoring program for HABs in the Northwest of Mexico

Toxic/Noxious Organisms Worked With

Toxins Worked With

PSP, DSP, TTX, ciguatera

Years of Experience with Toxic Algae/Biotoxins

3

Where Worked

Baja, California, Mexico

Regional/International Program Participation

Languages

English, French, Swedish, Spanish

Citizenship

Mexico

Sotomayor Navarro, Octaviano

Director and research scientist
Estación de Investigación
Oceanográfica
Salina Cruz, DGON SECMAR
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México

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Email:

Degrees

Master in Sciences

General Expertise

Biology, ecology, toxicology, public health, management

Specialty

Distribution and density of algal blooms (red tides); management of toxic red tides in public health

Toxic/Noxious Organisms Worked With

Pyrodinium bahamense var. *compressum*, *Mesodinium rubrum*, *Noctiluca scintillans*, *Ostreia iridescens* and *Choromastilus palliopunctatus*

Toxins Worked With

Saxitoxin

Years of Experience with Toxic Algae/Biotoxins

5

Where Worked

Tehuantepec Gulf (Pacific Ocean), Mexico

Regional/International Program Participation

Interinstitutional committee for Red tides Contingencies (regional); Red tide Contingencies Plan

Languages

Spanish, English

Citizenship

Mexico

Netherlands

Cadée, Gerhard Cornelis

Senior research scientist
Department of Coastal Systems
Netherlands Institute
for Sea Research (NIOZ)
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The Netherlands

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Degrees

Ph.D.

General Expertise

Ecology

Specialty
Phaeocystis sp., particularly blooms in the North Sea coastal zone, long-term time series

Toxic/Noxious Organisms Worked With
Phaeocystis

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
20

Where Worked
Dutch coastal waters, North Sea, Wadden Sea

Regional/International Program Participation
EC *Phaeocystis* programs

Languages
Dutch, English, French, German, Spanish

Citizenship
The Netherlands

Colijn, Franciscus

Head, Biology Section
National Institute of Coastal
and Marine Management (RIKZ)
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2500 EX Der Haag
The Netherlands

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Degrees

Ph.D.

General Expertise
Biology, ecology, physiology, management

Specialty
Relationship between abiotic factors and occurrence of HABs; primary production/growth measurements

Toxic/Noxious Organisms Worked With
Dinophysis, *Phaeocystis*, *Alexandrium*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
North Sea, Dutch estuaries

Regional/International Program Participation
IOC network; Dutch Eutrophication studies; ICES WG Phytoplankton Ecology

Languages
Dutch, English, German

Citizenship
The Netherlands

Dijkema, Renger

Department head, scientist
Netherlands Institute
for Fisheries Research (RIVO-DLO)
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Degrees

M.Sc.

General Expertise
Biology, ecology, toxicology, aquaculture, public health

Specialty
Monitoring Dutch coastal waters for harmful species and toxicity

Toxic/Noxious Organisms Worked With
Dinophysis acuminata, mussels, oysters, cockles

Toxins Worked With
DSP

Years of Experience with Toxic Algae/Biotoxins

Where Worked

Regional/International Program Participation

Languages
English, German, French, Portuguese, Spanish, Dutch

Citizenship
The Netherlands

Gieskes, Winfried W.C.

Associate professor
Department of Marine Biology
University of Groningen
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The Netherlands

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Telex:
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Email:

Degrees

Ph.D.

General Expertise
Biology, ecology, physiology

Specialty
Immunochemical detection of toxic algal species

Toxic/Noxious Organisms Worked With
Dinoflagellates

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
4

Where Worked
North Sea, tropical waters, Antarctica

Regional/International Program Participation
SCOR WG 96

Languages
Dutch, English, French, German, Norwegian, Spanish

Citizenship
The Netherlands

Hagel, Paul

Deputy director
DLO Netherlands Institute
for Fishery Research
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1970 AB IJmuiden
The Netherlands

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Email:

Degrees

Ph.D.

General Expertise
Chemistry, fisheries, management

Specialty
Analysis of phytoplankton toxins (PSP, ASP, DSP) and monitoring production areas of bivalve molluscs for these toxins

Toxic/Noxious Organisms Worked With
Dinophysis sp., *Nitzschia* sp., *Alexandrium* sp., mussels, oysters, cockles

Toxins Worked With
PSP, DSP, ASP

Years of Experience with Toxic Algae/Biotoxins
20

Where Worked
Dutch coastal waters

Regional/International Program Participation

Languages
Dutch, English, German

Citizenship
The Netherlands

Koeman, Reinoud Pieter Teunis

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The Netherlands

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Fax: 31-506-35205
Email:

Degrees

Ph.D.

General Expertise
Biology, ecology, taxonomy.

Specialty
Detection of harmful algal species by light microscopy; isolation and culture; counting phytoplankton samples; taxonomy of thecate dinoflagellates

Toxic/Noxious Organisms Worked With
Pseudonitzschia sp., *Alexandrium* sp., *Chattonella* sp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
4

Where Worked
North Sea, Wadden Sea, semi-stagnant and brackish lakes

Regional/International Program Participation
Dutch biomonitoring programme

Languages
Dutch, German, English

Citizenship
The Netherlands

Netherlands

Peperzak, Louis

National Institute for Coastal
and Marine Management (NICMM)
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Middelburg NL-4330
The Netherlands

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Email:

Degrees

General Expertise

Biology, ecology, physiology, toxicology

Specialty

Occurrence of HABs in the North Sea; identification and counting of species; life cycles; ecology of harmful species; effects on bivalves/plankton

Toxic/Noxious Organisms Worked With

Dinophysis spp., *Phaeocystis pouchetii*, *Alexandrium*, *G. mikimotoi*, *Mytilus edulis*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

6

Where Worked

North Sea

Regional/International Program Participation

Mesocosm studies on eutrophication (Dutch); immunochemical detection (Dutch); tracing and detection of toxic blooms (Dutch)

Languages

Dutch, English, German, Spanish

Citizenship

The Netherlands

Tuinstra, Louis G.M. Th.

Research scientist
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The Netherlands

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lgmth.tuinstra@rikilt.agro.nl

Degrees

M.Sc.

General Expertise

Chemistry

Specialty

Toxic/Noxious Organisms Worked With

Toxins Worked With

PSP, DSP

Years of Experience with Toxic Algae/Biotoxins

5

Where Worked

Regional/International Program Participation

Languages

English

Citizenship

The Netherlands

Vrieling, Engel G.

Research scientist
Department of Marine Biology
University of Groningen
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The Netherlands

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Email:

Degrees

Ph.D.

General Expertise

Chemistry, ecology, taxonomy, physiology, public health, management, immuno-chemistry

Specialty

Immunochemical identification of toxic species combined with flow cytometry and laser scanning microscopy and image analysis

Toxic/Noxious Organisms Worked With

G. aureolum, *Pseudonitzschia* sp., *Alexandrium* sp., *Raphidophyceae*

Toxins Worked With

Domoic acid

Years of Experience with Toxic Algae/Biotoxins

4

Where Worked

Dutch coastal waters

Regional/International Program Participation

Dutch monitoring program

Languages

Dutch, English

Citizenship

The Netherlands

Addendum

Netherlands

Mur, Luue R.

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University of Amsterdam
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Netherlands

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Fax: 31-20-525-7056

Email:

Degrees

General Expertise

Biology, ecology, physiology

Specialty

Ecological and physiological conditions of toxin producers

Toxic/Noxious Organisms Worked With

Microcystis

Toxins Worked With

Microcystins

Years of Experience with Toxic Algae/Biotoxins

5

Where Worked

Netherlands, Europe

Regional/International Program Participation

E.U. Program Microcystin Producers

Languages

English, Dutch

Citizenship

Netherlands

New Zealand

Chang, Fook Hoe

Research scientist
New Zealand Oceanographic Institute
NIWA-Marine
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Degrees
B.Sc., Ph.D.

General Expertise
Biology, ecology, taxonomy, toxicology, physiology

Specialty
Taxonomy and ecology of organisms causing fish-kills. PSP, NSP, DSP, and ASP; culture of toxic species; autecology; extraction and purification of toxins

Toxic/Noxious Organisms Worked With
Alexandrium minutum, *Alexandrium tarense*, *Gymnodinium spinov.* (cf. *breve*), *Pseudonitzschia pungens*, *Heterosigma akashiwo*, *Prorocentrum lima*, *Dinophysis acuminata*, *Dinophysis acuta*, *Prymnesium calathiferum*, *Amphidinium carterae*

Toxins Worked With
PSP

Years of Experience
14

Where Worked
New Zealand

Regional/International Program Participation

Languages
English, Chinese

Citizenship
New Zealand

Hayden, Barbara

Research scientist
MAF Fisheries Marine Research
4-P.O. Box 8602
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New Zealand

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Degrees
B.Tech.

General Expertise
Biology, aquaculture, public health

Specialty
Identification of dinoflagellate cysts; transport of cysts in ballast water & elsewhere

Toxic/Noxious Organisms Worked With
Green shell mussel (*Perna canaliculus*), *Alexandrium* sp.

Toxins Worked With

Years of Experience
6

Where Worked
New Zealand

Regional/International Program Participation
New Zealand Shellfish Sanitation and Marine Biotoxin Programme; New Zealand Ballast Water Working Group

Languages
English

Citizenship
New Zealand

Haywood, Allison Joy

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Marine Research Section
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New Zealand

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Degrees
M.Sc.

General Expertise
Biology, ecology, taxonomy, monitoring

Specialty
Coordinating phytoplankton research programs charged with monitoring productive waters and advising managers about potentially toxic genera/species and events

Toxic/Noxious Organisms Worked With
Alexandrium sp., *Gymnodinium breve*, *Gymnodinium catenatum*, *Gymnodinium mikimotoi*, raphidophytes

Toxins Worked With
PSP, ASP, domoic acid, saxitoxin, neo-saxitoxin

Years of Experience

Where Worked
New Zealand

Regional/International Program Participation
Ministry of Agriculture and Fisheries (MAF) Phytoplankton Research Programme

Languages
French, Japanese, English

Citizenship
New Zealand

New Zealand

Mackenzie, Lincoln

Research scientist
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Degrees
B.Sc.

General Expertise
Biology, ecology, taxonomy, aquaculture, monitoring

Specialty
Ecology, taxonomy, and toxicity of phytoplankton in New Zealand waters; extensive consulting activities on the impact of aquaculture on the marine environment; advice to government and industry on problems relating to HABs; ecology, taxonomy, and toxicity of dinoflagellates and raphidophytes

Toxic/Noxious Organisms Worked With
Dinoflagellate, raphidophytes, prymnesiophytes, diatoms

Toxins Worked With
DSP, PSP, NSP, ASP

Years of Experience
10

Where Worked
New Zealand

Regional/International Program Participation
New Zealand biotoxin and HAB monitoring program

Languages
English

Citizenship
New Zealand

Marsden, Islay Diane

Senior lecturer
Zoology Department
University of Canterbury
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New Zealand

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Degrees
B.Sc., Ph.D.

General Expertise
Ecology, physiology, aquaculture

Specialty
Effects of toxic dinoflagellates on the physiology, behavior, and ecology of marine invertebrates

Toxic/Noxious Organisms Worked With
PSP-causing species of *Alexandrium*; bivalve shellfish, including mussels, oysters, tuatua, cockles

Toxins Worked With
PSP

Years of Experience
5

Where Worked
Maine, New Zealand

Regional/International Program Participation
Collaboration with scientists in New Zealand at Oceanographic and Cawthron Institute

Languages
English

Citizenship
United Kingdom

Rhodes, Lesley Louise

Research scientist
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New Zealand

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lesley@environment.cawthron.org.nz

Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy, physiology, monitoring

Specialty
Prymnesiophytes: identification, culture, growth characteristics, and toxicity for many New Zealand isolates; "pre-toxic" event data collection and analysis for raphidophyte-dominated blooms in New Zealand; monitoring programs including mobile and cyst forms of a range of toxic species

Toxic/Noxious Organisms Worked With
Prymnesiophytes, raphidophytes, dinoflagellates, *Pseudonitzschia* sp.

Toxins Worked With
ASP

Years of Experience
12

Where Worked
New Zealand

Regional/International Program Participation
New Zealand finfish and shellfish monitoring programs

Languages
English

Citizenship
New Zealand

Norway

Aune, Tore

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Norwegian College of Veterinary
Medicine
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Microbiology and Food Hygiene
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Degrees
Ph.D.

General Expertise
Biology, toxicology, public health, monitoring

Specialty
Systems for surveillance of toxic marine
algal blooms; toxicology; assessment

**Toxic/Noxious Organisms
Worked With**
Dinophysis, *Alexandrium*, *Gyrodinium*,
Prymnesium, *Pseudonitzschia*, shellfish

Toxins Worked With
DSP, PSP

**Years of Experience with
Harmful Algae/Biotoxins**
9

Where Worked
Northern Europe

**Regional/International
Program Participation**
Head, Norwegian Expert Group on Algal
Toxins. Leader, Norwegian Surveillance
System

Languages
English, Norwegian, German

Citizenship
Norway

Barratt, Liv

Section leader
Department of Quality Control
Directorate of Fisheries
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Norway

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Degrees
M.Sc.

General Expertise
Biology, fisheries, public health

Specialty
Quality control of shellfish

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With
PSP, DSP

**Years of Experience with
Harmful Algae/Biotoxins**

Where Worked
Norway

**Regional/International
Program Participation**

Languages
Norwegian, English

Citizenship
Norway

Dahl, Einar

Senior scientist
Ministry of Fisheries
Institute of Marine Research
Flødevigen Marine Research Station
4817 HIS
Norway

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Degrees
Cand. Real.

General Expertise
Biology, ecology, aquaculture, monitoring

Specialty
Field studies of harmful algae; occurrence,
ecology, possible effects on aquaculture;
monitoring of harmful algae

**Toxic/Noxious Organisms
Worked With**
Gyrodinium sp., *Chrysochromulina* sp.,
Prymnesium sp., *Dinophysis* spp., *Alex-*
andrium sp., *Gymnodinium* sp., *Prorocen-*
trum sp., *Chaetoceros* sp., *Pseudonitzschia*
sp., *Mytilus edulis*, salmonid fish

Toxins Worked With
DSP, PSP, and ichthyotoxins

**Years of Experience with
Harmful Algae/Biotoxins**
11

Where Worked
Norwegian coastal waters, North Sea

**Regional/International
Program Participation**

Languages
Norwegian, English, German

Citizenship
Norway

Edvardsen, Bente

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Section for Marine Botany
Department of Biology
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Degrees
Cand. Scient.

General Expertise
Biology, ecology, toxicology, physiology

Specialty
Toxicity, physiology, and morphology of
life cycles of *Chrysochromulina* and
Prymnesium

**Toxic/Noxious Organisms
Worked With**
Chrysochromulina spp., *Prymnesium*
patelliferum, *P. parvum*

Toxins Worked With
Hemolysin, cytotoxins, ichthyotoxins

**Years of Experience with
Harmful Algae/Biotoxins**
4

Where Worked
Scandinavian coastal waters, France

**Regional/International
Program Participation**

Languages
Norwegian, English, Swedish, French

Citizenship
Norway

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Department of Fisheries
and Marine Biology
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Degrees
Ph.D.

General Expertise
Biology

Specialty
Effect of nutrient composition on algal
blooms

**Toxic/Noxious Organisms
Worked With**
Prymnesium sp.

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**

Where Worked
West Coast of Norway

**Regional/International
Program Participation**
Norwegian Program: Harmful Algae
(NFFR)

Languages
Norwegian, English

Citizenship
Norway

Eilertsen, Hans Chr.

Research scientist/lecturer
The Norwegian College
of Fishery Science
University of Tromsø
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Norway

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Degrees
Ph.D.

General Expertise
Biology, physics, ecology, physiology,
toxicology, aquaculture

Specialty
Phytoplankton dynamics; resting spores;
toxicity as an ecological factor; effects on
aquacultured species

**Toxic/Noxious Organisms
Worked With**
Chrysochromulina, *Phaeocystis*

Toxins Worked With
Hemolytic

**Years of Experience with
Harmful Algae/Biotoxins**
8

Where Worked
Norwegian coast, Barents Sea

**Regional/International
Program Participation**

Languages
English, German, Norwegian

Citizenship
Norway

Norway

Hegseth, Else Nøst

Research scientist
The Norwegian College
of Fishery Science
University of Tromsø
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Degrees
Cand. Real.

General Expertise
Biology, ecology, physiology

Specialty
Working with phytoplankton, including
Phaeocystis, ecology and physiology; field
and lab work during *Chrysochromulina*
blooms in northern Norway

**Toxic/Noxious Organisms
Worked With**
Dinoflagellates (*Dinophysis*, *Alexandrium*);
Chrysochromulina leadbeateri,
Phaeocystis pouchetii

Toxins Worked With
Ichthyotoxins

**Years of Experience with
Harmful Algae/Biotoxins**
5

Where Worked
Northern Norway, Barents Sea

**Regional/International
Program Participation**

Languages
English

Citizenship
Norway

Heidal, Kristin

Research scientist
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Degrees

General Expertise
Biology, ecology, taxonomy

Specialty
Taxonomy of algae

**Toxic/Noxious Organisms
Worked With**
Dinophysis spp., *Prorocentrum* spp., *Chrysochromulina leadbeateri*

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
8

Where Worked
Norwegian coast

**Regional/International
Program Participation**
National Algal Monitoring Program (Taxonomy Group), coordinated by HOV-BERGEN

Languages
Norwegian, English

Citizenship
Norway

Heimdal, Berit Riddervold

Professor
Department of Fisheries
and Marine Biology
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Bergen High Technology Center
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Norway

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Degrees
Cand. Real.

General Expertise
Biology

Specialty
Marine phytoplankton, particularly taxonomic, morphological, and ecological categories of coccolithophorids; the role of phytoplankton blooms in the climate/global change research framework

**Toxic/Noxious Organisms
Worked With**
Gyrodinium aureolum, *Dinophysis* spp.

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
26

Where Worked
Norwegian coastal waters

**Regional/International
Program Participation**

Languages
English

Citizenship
Norway

Johansen, Jon Eigill

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Chiron AS
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Norway

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Degrees
Ph.D.

General Expertise
Chemistry

Specialty
Analysis of DSP; analysis of pigments in dinoflagellates

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**

Where Worked

**Regional/International
Program Participation**

Languages
English, German, Norwegian

Citizenship
Norway

Johnsen, Torbjørn M.

Research scientist
Norwegian Institute
for Water Research (NIVA)
Bergen High-Technology Centre
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Norway

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Degrees
Cand. Real.

General Expertise
Biology, ecology, monitoring

Specialty
Fieldwork and experiments in connection with *Chrysochromulina polyplepis*, *Prymnesium parvum*, *P. patelliferum*, *Gyrodinium aureolum*; laboratory experiments with *Prymnesium parvum*, *P. patelliferum*, *Chrysochromulina leadbeateri*; monitoring harmful algae along Norwegian coast

**Toxic/Noxious Organisms
Worked With**
Chrysochromulina sp., *Prymnesium*, *Dinophysis*, *Alexandrium*, *Pseudonitzschia*, *Gyrodinium aureolum*

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**

Where Worked
Norway

**Regional/International
Program Participation**

Languages
Norwegian, English

Citizenship
Norway

Lømsland, Evy Rigmor

Research scientist
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Degrees
Cand. Real.

General Expertise
Biology, ecology, monitoring

Specialty
Field experiments on *Gymnodinium* and *Prymnesium* blooms; laboratory experiments with *Prymnesium*, *Chrysochromulina*, *Pseudonitzschia*; bloom monitoring

**Toxic/Noxious Organisms
Worked With**
Alexandrium, *Chrysochromulina*, *Dinophysis*, *Gyrodinium*, *Pseudonitzschia*, *Prymnesium*

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
12

Where Worked
Norway

**Regional/International
Program Participation**

Languages
Norwegian, English

Citizenship
Norway

Norway

Mohus, Åge Eirik

Associate professor
Institute of Fisheries and Aquaculture
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aage.mohus@ifa.hsn.no

Degrees
M.Sc.

General Expertise
Chemistry, taxonomy, fisheries, aquaculture, biochemistry, microbiology

Specialty
Algal blooms in Norwegian fjords; monitoring of algal species along the northern coast of Norway in connection with effects on aquaculture

Toxic/Noxious Organisms Worked With
Dinophysis spp., *Chrysochromulina* spp., *Alexandrium* spp.

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
9

Where Worked
Northern Norway

Regional/International Program Participation
Norwegian Program for Ocean Monitoring and Forecasting (HOV)

Languages
Norwegian, Danish, Swedish, English, French

Citizenship
Norway

Rey, Francisco

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Institute of Marine Research
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OMNET: f.rey

Degrees

General Expertise
Biology, ecology, taxonomy, monitoring

Specialty
General plankton ecology; spring bloom development; algal bloom monitoring

Toxic/Noxious Organisms Worked With
Dinoflagellates, diatoms, prymnesiophytes

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
12

Where Worked
Norwegian coastal waters, European arctic waters

Regional/International Program Participation

Languages
Spanish, Norwegian, English, Portuguese, French

Citizenship
Chile

Skulberg, Olav M.

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Norwegian Institute for Water Research
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Norway

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Degrees
Candidatus Reahium

General Expertise
Biology, ecology, taxonomy, toxicology

Specialty
Taxonomy and ecology of toxic algal bloom species; bioassay methods for use in water quality research; culture collection of toxigenic species

Toxic/Noxious Organisms Worked With
Cyanophyceae, Haptophyceae

Toxins Worked With
Alkaloids, polypeptides

Years of Experience with Harmful Algae/Biotoxins
22

Where Worked
Europe

Regional/International Program Participation
Nordic research on toxin-producing algae

Languages
Norwegian, English, German

Citizenship
Norway

Norway

Thronsdén, Jahn

Research scientist
Department of Biology
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Degrees
Mag. Scient.

General Expertise
Taxonomy

Specialty
Taxonomy of "naked" flagellates in general, including harmful species, based on light and electron microscopy; blooms of *Chrysochromulina* and *Prymnesium* in Scandinavian waters

Toxic/Noxious Organisms Worked With
Chrysochromulina polylepis, *C. leadbeateri*, *Prymnesium parvum*, *P. patelliterum*, and *Heterosigma*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked
Norway, Mediterranean, Barents Sea, Japan, Caribbean, East Pacific

Regional/International Program Participation

Languages
Norwegian, English

Citizenship
Norway

People's Republic of China

Cao, Xin-Zhong

Vice-chief engineer
Second Institute of Oceanography
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People's Republic of China

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Email:

Degrees

General Expertise

Physics, ecology, fisheries

Specialty

Theoretical physics, oceanography, marine environmental science, ecological analyses

Toxic/Noxious Organisms Worked With

Noctiluca scintillans, *Skeletonema costatum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

14

Where Worked

East China Sea and its bays

Regional/International Program Participation

Regional programs on the upwelling off Zhejiang in the East China Sea

Languages

Chinese, English, Russian

Citizenship

People's Republic of China

Chen, Cimei

Research scientist
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Degrees

Chemistry

General Expertise

Specialty

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

Where Worked

Xiamen Bay

Regional/International Program Participation

Languages

English, Chinese

Citizenship

People's Republic of China

Chen, Xian-Lin

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Research Centre
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Email:

Degrees

Esc of China

General Expertise

Ecology

Specialty

The control of harmful algal blooms by marine ecosystem enclosed experiments

Toxic/Noxious Organisms Worked With

Skeletonema costatum, *Noctiluca scintillans*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

10

Where Worked

Saanich Bay, British Columbia, Canada

Regional/International Program Participation

Marine ecosystem enclosed experiments in Saanich Bay, B.C.

Languages

English, Chinese

Citizenship

People's Republic of China

Chen, Ya-Qu

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Division
East China Sea Fisheries Research
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Email:

Degrees

General Expertise

Biology, ecology, toxicology, fisheries, aquaculture

Specialty

Harmful algal blooms in Changjiang (Yangtze) River estuarine area, Xiangshan Gulf

Toxic/Noxious Organisms Worked With

Dinoflagellates, *Noctiluca*, *Skeletonema*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

20

Where Worked

East Pacific Ocean, East China Sea, Yellow Sea

Regional/International Program Participation

Red tide in the East China Sea; red tide in the Xiangshan Gulf

Languages

Chinese, English

Citizenship

People's Republic of China

Chen, Zhongyang

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East China Sea Branch
State Oceanic Administration
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People's Republic of China

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Fax: 021-8611647
Email:

Degrees

B.S.

General Expertise

Chemistry, ecology, management

Specialty

Red tides in the East China Sea, especially *Noctiluca scintillans*, *Skeletonema costatum*; *Prorocentrum micans*, *Gymnodinium* sp.

Toxic/Noxious Organisms Worked With

Prorocentrum micans, *Gymnodinium* sp., *Aulacomya lei*, *Meritrix casta*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

5

Where Worked

East China Sea

Regional/International Program Participation

Languages

Chinese, English

Citizenship

People's Republic of China

Chu, Jianghua

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Jinan University
Guangzhou, Guangdong 510632
People's Republic of China

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Fax: 86-20-5516941
Email:

Degrees

M.Sc.

General Expertise

Chemistry, ecology, toxicology

Specialty

Computerized chemistry; biotoxins of toxic algae

Toxic/Noxious Organisms Worked With

Alexandrium, *Pseudonitzschia*

Toxins Worked With

PSP

Years of Experience with Toxic Algae/Biotoxins

5

Where Worked

South China Sea, Dapeng Bay

Regional/International Program Participation

NSF-China red tide project

Languages

English, Chinese, Japanese

Citizenship

People's Republic of China

People's Republic of China

Dong, Liping

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People's Republic of China

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Fax: 86-0532-2870882
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Degrees

General Expertise

Biology, ecology, physiology

Specialty

Physiological ecology of marine phytoplankton and harmful red tide organisms

Toxic/Noxious Organisms

Worked With
Noctiluca scintillans, *Skeletonema costatum*, *Prorocentrum minimum*

Toxins Worked With

Years of Experience with

Toxic Algae/Biotoxins
14

Where Worked

Huanghai and Bohai Seas

Regional/International

Program Participation

Languages

Chinese, English

Citizenship

People's Republic of China

Gao, Xing-Mei

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Environmental Science
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Academy of Science
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People's Republic of China

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Telex: 32222 ISS CN
Fax: 86-0532-2870882
Email:

Degrees

M.S.

General Expertise

Chemistry, ecology, management

Specialty

Marine analytical chemistry; prediction and control of red tide outbreaks; eutrophication

Toxic/Noxious Organisms

Worked With
Noctiluca scintillans, *Prorocentrum minimum*

Toxins Worked With

Years of Experience with

Toxic Algae/Biotoxins
1

Where Worked

Jiaozhou Bay, Yellow Sea

Regional/International

Program Participation
Regional studies on the assessment of eutrophication and prediction of red tides in Chinese coastal waters

Languages

Chinese, English

Citizenship

People's Republic of China

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Degrees

B.S.

General Expertise

Biology, ecology, aquaculture, management

Specialty

Red tides in the East China Sea, especially *Noctiluca scintillans*, *Skeletonema costatum*; *Prorocentrum micans*, *Gymnodinium* sp.

Toxic/Noxious Organisms

Worked With
Prorocentrum micans, *Gymnodinium* sp., *Aulacomya atei*, *Meritrix casta*

Toxins Worked With

Years of Experience with

Toxic Algae/Biotoxins
5

Where Worked

East China Sea

Regional/International

Program Participation

Languages

Chinese, English

Citizenship

People's Republic of China

Hong, Ying

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People's Republic of China

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Degrees

M.Sc.

General Expertise

Biology, ecology, physiology

Specialty

HABs; dinoflagellate cysts

Toxic/Noxious Organisms

Worked With
Alexandrium and *Scrippsiella*

Toxins Worked With

PSP

Years of Experience with

Toxic Algae/Biotoxins
6

Where Worked

South China Sea

Regional/International

Program Participation
NSF China project on red tide research

Languages

English, Chinese

Citizenship

People's Republic of China

People's Republic of China

Huang, Wenxian

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Environmental Protection
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Degrees

General Expertise

Biology, ecology, taxonomy, management

Specialty

Phytoplankton and HAB studies in Dalian Bay and Yellow Sea coastal areas

Toxic/Noxious Organisms

Worked With
Skeletonema costatum, *Nitzschia pungens*, *Prorocentrum*, mussels

Toxins Worked With

Years of Experience with

Toxic Algae/Biotoxins
10

Where Worked

Yellow Sea, Bohai Sea

Regional/International

Program Participation

Languages

Chinese, English

Citizenship

People's Republic of China

Kang, Yuande

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Degrees

Biology, taxonomy, fisheries

General Expertise

Marine zooplankton; causes of HABs

Specialty

Noctiluca scintillans, *Ceratium* sp., *Gymnodinium* sp. *Skeletonema costatum*

Toxic/Noxious Organisms

Worked With

Toxins Worked With

Years of Experience with

Toxic Algae/Biotoxins
14

Where Worked

Regional/International

Program Participation

Languages

Chinese, English

Citizenship

People's Republic of China

People's Republic of China

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Degrees
B.S., M.S.

General Expertise
Biology, physiology

Specialty
Culturing and physiology of red tide organisms; distribution of dinoflagellate cysts in China's coastal sea

Toxic/Noxious Organisms Worked With
Alexandrium tamarense, *Gymnodinium catenatum*, *Nitzschia pungens*

Toxins Worked With
Paralytic shellfish toxins

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
Southeast China Sea

Regional/International Program Participation
Major red tide project of National Science Foundation of China

Languages
Chinese, English

Citizenship
People's Republic of China

Li, Dayong

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Degrees
M.Sc.

General Expertise
Biology, ecology

Specialty
HAB ecology

Toxic/Noxious Organisms Worked With
Noctiluca scintillans

Toxins Worked With
PSP

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
South China Sea

Regional/International Program Participation
NSF-China red tide project

Languages
Chinese, English

Citizenship
People's Republic of China

Li, Rui-Xiang

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Degrees

General Expertise
Biology, ecology, taxonomy

Specialty
Biology, taxonomy, and ecology of harmful algae; *Noctiluca scintillans* blooms in Jiaozhou Bay; *Gymnodinium* sp. bloom in prawn ponds; *Prorocentrum minimum* blooms in bays

Toxic/Noxious Organisms Worked With
Prorocentrum spp., *Dinophysis* spp., *Alexandrium* spp., *Gonyaulax* spp., *Noctiluca*

Toxins Worked With
DSP, PSP

Years of Experience with Toxic Algae/Biotoxins
12

Where Worked
Bohai Sea, Huanghai Sea

Regional/International Program Participation
Investigation of phytoplankton in Bohai Sea and Huanghai Sea; environmental survey of aquaculture area in Jiaozhou Bay; red tide monitoring in northern China Sea

Languages
English, Chinese

Citizenship
People's Republic of China

People's Republic of China

Lian, Song

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Degrees

General Expertise
Ecology, management

Specialty

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

Where Worked

Regional/International Program Participation

Languages
Chinese

Citizenship
People's Republic of China

Lin, Yangtung

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Degrees

General Expertise
Biology, ecology, toxicology

Specialty

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked

Regional/International Program Participation

Languages
Chinese

Citizenship
People's Republic of China

Lin, Yongshui

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People's Republic of China

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Degrees

General Expertise
Biology, ecology, taxonomy

Specialty
Marine phytoplankton and their ecology in coastal waters (Xisa Islands and Nansa Islands) of the South China Sea; red tides and their cause in the Zhujiang Estuary and in Daya Bay (Guangdong Province)

Toxic/Noxious Organisms Worked With
Gonyaulax polygramma, *Prorocentrum sigmoides*, *Alexandrium*, *Pyrodinium* spp.

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
11

Where Worked
Zhujiang (Pearl River) Estuary; Daya Bay (Guangdong Province)

Regional/International Program Participation
Hong Kong, Southeast Asia

Languages
Chinese, English

Citizenship
People's Republic of China

People's Republic of China

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Degrees
Postgraduate

General Expertise
Chemistry, ecology

Specialty
Production mechanisms of blue-green algae blooms and their control; ecodynamic models

Toxic/Noxious Organisms Worked With
Blue-green algae, green algae

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
8

Where Worked
Yunnan Province, China

Regional/International Program Participation
Cooperative study with Japan on eutrophication of Lake Dianchi (1988-1990)

Languages
Chinese, English

Citizenship
People's Republic of China

Liu, XIII

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People's Republic of China

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Degrees
Ph.D.

General Expertise
Physics, management

Specialty
Management of oceanic environmental protection and HAB monitoring programs

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked

Regional/International Program Participation
Regional and national management programs for oceanic environmental protection and HAB monitoring programs

Languages
English, Chinese

Citizenship
People's Republic of China

Lu, Doding

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Degrees

General Expertise
Ecology, taxonomy

Specialty
Phytoplankton ecology as it relates to bloom distribution patterns; effects of HABs on fisheries in Zhejiang coastal waters

Toxic/Noxious Organisms Worked With
Noctiluca, *Prorocentrum*, *Skeletonema*, *Gymnodinium*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
East China Sea

Regional/International Program Participation
Regional studies of red tide Zhejiang coastal areas

Languages
Chinese, English

Citizenship
People's Republic of China

Lu, Shonghui

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Degrees
M.Sc.

General Expertise
Biology, ecology

Specialty
HABs; ecology of red tides

Toxic/Noxious Organisms Worked With
Noctiluca scintillans, *Pseudonitzschia*

Toxins Worked With
PSP

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
South China Sea

Regional/International Program Participation
NFS-China red tide project

Languages
Chinese, English

Citizenship
People's Republic of China

People's Republic of China

Qi, Yu-Zao

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Degrees
Graduate degree

General Expertise
Biology, ecology, taxonomy, physiology

Specialty
HAB biology and ecology; red tides in China

Toxic/Noxious Organisms Worked With
Alexandrium, *Noctiluca scintillans*, *Pseudonitzschia*

Toxins Worked With
PSP

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
East and South China Sea

Regional/International Program Participation
NSF-China project on red tide; U.S.-China cooperative research program on red tide phytoplankton of the South and East China Sea

Languages
Chinese, English, Russian

Citizenship
People's Republic of China

Qian, Feng

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Degrees
M.Sc.

General Expertise
Biology, taxonomy, physiology

Specialty
HAB taxonomy

Toxic/Noxious Organisms Worked With
Alexandrium, *Scrippsiella*

Toxins Worked With
PSP

Years of Experience with Toxic Algae/Biotoxins
3

Where Worked
South China Sea

Regional/International Program Participation
NSF-China project on red tides

Languages
Chinese, English

Citizenship
People's Republic of China

People's Republic of China

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Degrees

Biology, ecology

General Expertise

Specialty

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

Where Worked

Regional/International Program Participation

Languages

Chinese, English

Citizenship

People's Republic of China

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Degrees

General Expertise

Biology, ecology, taxonomy

Specialty

Phycology, with emphasis on phytoplankton; taxonomy, biology and ecology of phytoplankton, especially diatoms

Toxic/Noxious Organisms Worked With

Nitzschia spp., *Chaetoceros* spp., *Skeletonema costatum*, and all other species of diatoms

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

20

Where Worked

Yellow Sea and East China Sea

Regional/International Program Participation

Distribution of diatoms in China Sea, co-operative research on phytoplankton ecology between China and USA

Languages

Chinese, English

Citizenship

People's Republic of China

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Degrees

General Expertise

Biology, ecology, physiology, management

Specialty

Eutrophication and harmful algal blooms in Bohai Bay; monitoring of marine phytoplankton and harmful algal blooms in the Bohai Sea

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

14

Where Worked

Bohai Sea

Regional/International Program Participation

Languages

Chinese, English

Citizenship

People's Republic of China

Qin, De-Quan

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Degrees

General Expertise

Biology, ecology, toxicology

Specialty

Ecology and biology of the phytoplankton that cause red tides in Dapeng Bay and Daya Bay (Guangdong Province); models for forecasting red tides

Toxic/Noxious Organisms Worked With

Dinophysis sp., *Alexandrium* sp., *Prorocentrum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

2

Where Worked

Dapeng Bay and Daya Bay (Guangdong Province)

Regional/International Program Participation

Languages

Chinese, English, and Japanese

Citizenship

People's Republic of China

People's Republic of China

Sang, Qi

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Degrees

General Expertise

Biology, ecology

Specialty

Ecology of HABs, particularly population dynamics related to environmental factors; copepod grazing on red tide organisms; experimental ecology of *Noctiluca scintillans*

Toxic/Noxious Organisms Worked With

Noctiluca scintillans

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

10

Where Worked

Coastal areas of the South China Sea

Regional/International Program Participation

National Natural Science Foundation on red tide occurrences in the East and South China Seas

Languages

Chinese, English

Citizenship

People's Republic of China

Shi, Yabo

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Degrees

M.S.

General Expertise

Ecology, genetics, physiology, toxicology

Specialty

Skeletonema physiology and ecology; dinoflagellate cyst studies; phytoplankton culture

Toxic/Noxious Organisms Worked With

Skeletonema costatum, *Nitzschia pungens*, *Noctiluca scintillans*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

6

Where Worked

Yellow Sea, China, East China Sea to the Pacific

Regional/International Program Participation

Chinese-German Scientific Cooperation, 1991-1994, Program for Red Tide; regional study of mechanism for red tide outbreak in southeastern China Sea

Languages

Chinese, English

Citizenship

People's Republic of China

People's Republic of China

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Degrees

General Expertise

Biology, chemistry, ecology, physiology

Specialty

HABs and their effects at the mouth of the
Pearl River

Toxic/Noxious Organisms Worked With

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
6

Where Worked
South China Sea

**Regional/International
Program Participation**
Chinese Academy of Science program on
eutrophication and red tides of estuarine
waters of the Pearl River

Languages
Chinese

Citizenship
People's Republic of China

Wang, Zhaoding

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Degrees

General Expertise

Chemistry, ecology

Specialty

Chemistry problems in the marine envi-
ronment; red tides, eutrophication, and
hypoxia in coastal water; population dy-
namics of red tide organisms; modeling for
red tide prediction

Toxic/Noxious Organisms Worked With

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
8

Where Worked
Coastal waters of the South China Sea

**Regional/International
Program Participation**
Mechanisms of red tide occurrence in the
eastern and southern South China Sea;
eutrophication and red tide forecasting in
the coastal waters of the South China Sea

Languages
Chinese, English

Citizenship
People's Republic of China

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Degrees
B.S.

General Expertise

Specialty

Relationship between physical and chemi-
cal factors and the initial density of
Prorocentrum micans blooms

Toxic/Noxious Organisms Worked With

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
5

Where Worked
East China Sea

**Regional/International
Program Participation**
Regional study of the chemical environ-
ment in areas along the shore of Zhejiang
where red tides occur

Languages
Chinese, English

Citizenship
People's Republic of China

Wu, Yulin

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Degrees

General Expertise

Biology, ecology, physiology, toxicology

Specialty

Physiology and harmful algae

Toxic/Noxious Organisms Worked With

Noctiluca scintillans, *Nitzschia pungens*,
Prorocentrum minimum

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Bohai Sea, Yellow Sea, South China Sea

**Regional/International
Program Participation**
Chinese-German Scientific Cooperation,
1991-1994, Program for Red Tide; regional
study of mechanism for red tide outbreak
in southeastern China Sea

Languages
Chinese, English

Citizenship
People's Republic of China

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Degrees

General Expertise

Ecology, toxicology, ecotoxicology

Specialty

Alexandrium tamarense toxin

Toxic/Noxious Organisms Worked With

Alexandrium tamarense, Chinese carps

Toxins Worked With

PSP

Years of Experience with Toxic Algae/Biotoxins

Where Worked
Germany, People's Republic of China

Regional/International Program Participation

Languages
English, German, Chinese

Citizenship
People's Republic of China

Yu, Huming

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Degrees
Ph.D.

General Expertise

Chemistry, ecology, fisheries, aquaculture,
management

Specialty

Determining probability, intensity, and
consequences of HAB events and related
socio-economic impacts; evaluating exist-
ing management processes and procedures
for HAB events; developing strategies and
remedies for improving response to, pre-
venting, and mitigating adverse conse-
quences of HABs.

Toxic/Noxious Organisms Worked With

Effects of *Gymnodinium* sp. and *Noctiluca*
sp. on shellfish

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
5

Where Worked
Chinese marine waters

Regional/International Program Participation

Languages
English, Chinese, French

Citizenship
People's Republic of China

People's Republic of China

Yu, Zhiming

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Degrees

Ph.D.

General Expertise

Chemistry, ecology, management

Specialty

Efficacy of clays in mitigation of red tide;
mechanism of toxin production, nutrient
uptake kinetics

Toxic/Noxious Organisms Worked With

Pseudonitzschia pungens, *Skeletonema
costatum*, *Prorocentrum minimum*

Toxins Worked With

domoic acid

Years of Experience with Toxic Algae/Biotoxins

4

Where Worked

China, Canada

Regional/International Program Participation

Languages

Chinese, English

Citizenship

People's Republic of China

Zhang, Cheng

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Environmental Science
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Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy, physiology

Specialty

Eco-physiology of *Nitzschia pungens*; dis-
tribution of *N. pungens* in Chinese coastal
waters; subspecific taxonomy of *N.
pungens* in Chinese coastal waters

Toxic/Noxious Organisms Worked With

Nitzschia pungens, other harmful algae

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

5

Where Worked

Chinese coastal waters

Regional/International Program Participation

Regional studies on mechanisms of red tide
outbreaks along the Southeast China Coast,
eutrophication, and prediction of HABs in
Chinese waters

Languages

Chinese, English

Citizenship

People's Republic of China

Zhang, Shui-Jin

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Email:

Degrees

B.S.

General Expertise

Biology, ecology, taxonomy

Specialty

Environmental conditions for red tides in
Xiamen Harbor with particular emphasis
on developmental mechanisms of
Gymnodinium sp. red tide in June, 1986,
and *Eucampia zoodiacus* red tide in May,
1987; the PSP outbreak resulting from
Gymnodinium sp. in Dongshan Island,
Fujian, in November, 1986

Toxic/Noxious Organisms Worked With

Gymnodinium sp., *Prorocentrum* spp., *Eu-
campia zoodiacus*, *Nitzschia pungens*,
Ruditapes philippinarum

Toxins Worked With

Paralytic shellfish toxins

Years of Experience with Toxic Algae/Biotoxins

4

Where Worked

Southeast part of China Sea

Regional/International Program Participation

Languages

Chinese, English

Citizenship

Zhang, Zhanxia

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Degrees

Ph.D.

General Expertise

Chemistry, ecology

Specialty

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins

10

Where Worked

China, United States

Regional/International Program Participation

Languages

Chinese, English

Citizenship

People's Republic of China

People's Republic of China

Zheng, Lei

Lecturer
Institute of Hydrobiology
Jinan University
Guangzhou, Guangdong 510632
People's Republic of China

Telephone: 86-20-5516511 ext. 4555
Telex: 44645 JNU CN
Fax: 86-20-5516941
Email:

Degrees

M.Sc.

General Expertise

Biology, ecology

Specialty

HABs; red tides

Toxic/Noxious Organisms Worked With

Alexandrium, *Prorocentrum micans*

Toxins Worked With

PSP

Years of Experience with Toxic Algae/Biotoxins

3

Where Worked

South China Sea

Regional/International Program Participation

NSF-China red tide research project

Languages

Chinese, English

Citizenship

People's Republic of China

Zheng, Tianling

Deputy director
Environmental Science Research Center
Xiamen University
P.O. Box 1707
Xiamen, Fujian 361005
People's Republic of China

Telephone: 86-592-2086416
Telex:
Fax: 86-592-2086402
Email:

Degrees

General Expertise

Biology, ecology, toxicology, public
health, management

Specialty

Control of HABs by microbiological meth-
ods

Toxic/Noxious Organisms Worked With

Dactylosolen mediterraneus, *Noctiluca
scintillans*, mussels

Toxins Worked With

STX, GT, GB3, BTX

Years of Experience with Toxic Algae/Biotoxins

7

Where Worked

Nice, France; Kyoto Bay, Japan

Regional/International Program Participation

Study of HABs in the Mediterranean Sea

Languages

French, English, Chinese

Citizenship

People's Republic of China

People's Republic of China

Zhou, Chengxu

Research scientist
Department of Marine
Environmental Science
Institute of Oceanology
Academy of Science
7 Nanhai Road
Qingdao, Shandong 266071
People's Republic of China

Telephone: 86-532-2879062
Telex: 32222 ISS CN
Fax: 86-0532-2870882
Email:

Degrees
M.S.

General Expertise
Ecology, taxonomy, physiology, toxicology

Specialty
Physiology and ecology of harmful algae

Toxic/Noxious Organisms Worked With
Noctiluca scintillans, *Pseudonitzschia pungens*, *Skeletonema costatum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
4

Where Worked
Yellow Sea, China, East China Sea to the Pacific

Regional/International Program Participation
Chinese-German Scientific Cooperation, 1991-1994, Program for Red Tide; regional study of mechanism for red tide outbreak in southeastern China Sea

Languages
Chinese, English

Citizenship
People's Republic of China

Zhou, Mingjiang

Director
Marine Ecotoxicology Laboratory
Institute of Oceanology
Academia Sinica
7 Nanhai Road
Qingdao 266071
People's Republic of China

Telephone: 86-532-287-9062
Telex: 32222 ISS CN
Fax: 86-532-287-0882
Email:

Degrees

General Expertise
Biology, toxicology, aquaculture

Specialty
Culture and ecology studies of marine phytoplankton including dinoflagellates; effects of dinoflagellates on marine shellfish

Toxic/Noxious Organisms Worked With
Prorocentrum minimum, *Alexandrium lusitanicum*, *Argopecten irradians*, *Chamlys farreri*, *Penaeus orientalis*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
7

Where Worked
Yellow Sea, East China Sea

Regional/International Program Participation
Regional studies on mechanisms of red tide outbreaks along the southeastern Chinese coast

Languages
Chinese, English

Citizenship
People's Republic of China

Zhu, Congju

Lecturer
Institute of Hydrobiology
Jinan University
Guangzhou, Guangdong 510632
People's Republic of China

Telephone: 86-20-5516511 ext. 4557
Telex: 44645 JNU CN
Fax: 86-20-5516941
Email:

Degrees
M.Sc.

General Expertise
Biology, ecology, physiology

Specialty
Ecology and physiology of HABs; physiological research on red tides

Toxic/Noxious Organisms Worked With
Prorocentrum micans, *Noctiluca scintillans*, *Alexandrium*

Toxins Worked With
PSP

Years of Experience with Toxic Algae/Biotoxins
6

Where Worked
East and South China Seas

Regional/International Program Participation
NSF-China project on red tides

Languages
Chinese, English

Citizenship
People's Republic of China

Zhu, Mingyuan

Vice chief
Division of Marine Biology
First Institute of Oceanography
State Oceanic Administration
P.O. Box 98 3a Hongdaozi Road
Qingdao 266003
People's Republic of China

Telephone: 86-532-266810, ext. 265 or 256
Telex:
Fax: 86-532-2879562
Email:

Degrees

General Expertise
Biology, ecology, physiology, management

Specialty
Diel vertical migration of some dinoflagellates; ecology of phytoplankton; nutrient uptake and growth dynamics and HAB events in shrimp ponds

Toxic/Noxious Organisms Worked With
Noctiluca scintillans, *Skeletonema costatum*, *Gymnodinium* spp.

Toxins Worked With
DSP, PSP

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Bohai Sea, Huanghai Sea

Regional/International Program Participation
Red tide monitoring network along Bohai Sea, water quality assessment in Luizhou Bay, APEC Red tide/toxin project, IOC-FAO HABP

Languages
Chinese, English

Citizenship
People's Republic of China

People's Republic of China

Zou, Jingzhong

Chairman, research director
Department of Marine Environmental Science
Institute of Oceanology
Academia Sinica (IOAS)
7 Nanhai Road
Qingdao, Shandong 266071
People's Republic of China

Telephone: 86-532-287-9062
Telex: 32222 ISS CN
Fax: 86-0532-287-0882
Email:

Degrees

General Expertise
Biology, ecology, taxonomy, physiology, aquaculture, management

Specialty
Marine pollution ecology; taxonomy and physiological ecology of harmful marine phytoplankton, including toxic dinoflagellates; mechanism, prediction, and control of the occurrence of eutrophication and red tides

Toxic/Noxious Organisms Worked With
Noctiluca scintillans, *Prorocentrum minimum*, *Dinophysis caudata*, *Alexandrium tamarense*, *Nitzschia pungens*, *Skeletonema costatum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
20

Where Worked
Yellow Sea, East and South China Seas

Regional/International Program Participation
Regional studies of red tide outbreaks, eutrophication and prediction of HABs along the southeastern China coast

Languages
Chinese, English

Citizenship
People's Republic of China

People's Republic of China

Qi, Sang

Research scientist
Institute of Hydrobiology
Jinan University
Guangzhou, Guangdong 510632
China

Telephone: 86-20-5516511 ext.4555
Telex:
Fax: 86-20-5516941
Email: jnnet@scut.edu.cn

Degrees

B.S.

General Expertise

Biology, ecology, fisheries

Specialty

Experimental ecology studies of HAB

Toxic/Noxious Organisms

Worked With

Noctiluca scintillans

Toxins Worked With

PSP

Years of Experience with

Toxic Algae/Biotoxins

10

Where Worked

South China Sea, China

Regional/International

Program Participation

Mechanism studies of red tides in South
and East coast of China

Languages

English

Citizenship

China

Philippines

Amurao, Juanita

Marine biologist
Bureau of Fisheries
and Aquatic Resources
Acadia Building, 860 Quezon Ave.
Quezon City
Philippines

Telephone: 632-987-075
Telex:
Fax: 632-988-517 or
632-987-871

Email:

Degrees

B.S. ed., B.S. fisheries

General Expertise

Biology, fisheries

Specialty

Monitoring toxic red tides and determination of *Pyrodinium* cysts in the sediment samples

Toxic/Noxious Organisms

Worked With
Pyrodinium bahamense var. *compressum*,
mussels

Toxins Worked With

Saxitoxin

Years of Experience with Harmful Algae/Biotoxins

4

Where Worked

Philippines

Regional/International Program Participation

Japan-RP Collaborative Research on Toxic Red Tides, Philippine red tide monitoring

Languages

English and Pilipino

Citizenship

Philippines

Bajarias, Fe Farida

Aquaculturist
Bureau of Fisheries
and Aquatic Resources
Arcadia Bldg., 860 Quezon Ave.
Quezon City
Philippines

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Telex:
Fax: 632-922-231; 988-517
Email:

Degrees

B.S., M.Sc.

General Expertise

Biology, fisheries

Specialty

Coastal monitoring (water quality, coastal primary production, zooplankton estimation and HABs), eco-physiological study of *Pyrodinium bahamense* var. *compressum*

Toxic/Noxious Organisms

Worked With
Pyrodinium bahamense var. *compressum*,
mussels, pen shell, oysters

Toxins Worked With

PSP

Years of Experience with Harmful Algae/Biotoxins

3

Where Worked

Philippines

Regional/International Program Participation

Philippine red tide monitoring, RP-Japan Collaborative Red Tide Study

Languages

English

Citizenship

Philippines

Borja, Valeriano

Marine biologist
Bureau of Fisheries
and Aquatic Resources
Fisheries Resources Research Division
Arcadia Building, 860 Quezon Ave.
Quezon City
Philippines

Telephone: 632-987-075, 991-249 or
987-075

Telex:

Fax: 988-517 or 987-871

Email:

Degrees

B.Sc.

General Expertise

Biology, fisheries

Specialty

Monitoring harmful marine algae; mouse bioassay

Toxic/Noxious Organisms

Worked With
Pyrodinium bahamense var. *compressum*,
green mussel, oysters

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

6

Where Worked

Philippines

Regional/International Program Participation

RP-Japan Collaborative Research on Toxic Red Tide; ASEAN-Canada Programme on Marine Science, Phase II

Languages

English, Pilipino

Citizenship

Philippines

Corrales, Rhodora Azanza

Associate professor
Marine Science Institute
University of the Philippines
P.O. Box 1
Diliman, Quezon City 1101
Philippines

Telephone: 632-989-676 to 79 local 7414
Telex:
Fax: 632-924-3735 or 921-5967
Email:

Degrees

Ph.D.

General Expertise

Biology, ecology, physiology, management, monitoring, training, networking

Specialty

Culture and biology of *Pyrodinium bahamense* var. *compressum*; planning and implementing training for monitoring personnel

Toxic/Noxious Organisms

Worked With
Pyrodinium bahamense var. *compressum*,
Perna viridis

Toxins Worked With

PSP

Years of Experience with Harmful Algae/Biotoxins

4

Where Worked

Philippines, Southeast Asia (Malaysia, Singapore, Brunei, Thailand, Indonesia)

Regional/International Program Participation

ASEAN-Canada Red Tide Network; co-editor, IOC Harmful Algae Newsletter; IOC-FAO HAB Program

Languages

Pilipino, English, Spanish

Citizenship

Philippines

Philippines

Dy, Danilo

Administrative officer
Marine Biology Section
University of San Carlos
Cebu City, Cebu 6000
Philippines

Telephone: 633-285-021 local 508
Telex:
Fax: 633-274-281 or 543-410
Email:

Degrees

M.Sc.

General Expertise

Ecology, physiology, toxicology

Specialty

Study of nutrient interaction and fluxes between marine sediments and overlying water in shallow areas; marine productivity of coastal ecosystems; toxicity testing on shells/molluscs

Toxic/Noxious Organisms

Worked With
Pyrodinium bahamense var. *compressum*

Toxins Worked With

PSP

Years of Experience with Harmful Algae/Biotoxins

3

Where Worked

Asia, Philippines

Regional/International Program Participation

Red Tide Monitoring Program in the Philippines (Region 7)

Languages

English, Cebuano, Tagalog, Chinese

Citizenship

Philippines

Fulgueras, Virgilio

Marine biologist
Bureau of Fisheries
and Aquatic Resources
Fisheries Resources Research Division
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Quezon City
Philippines

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987-075

Telex:

Fax: 988-517 or 987-871

Email:

Degrees

B.S.

General Expertise

Biology, fisheries

Specialty

Monitoring harmful marine algae

Toxic/Noxious Organisms

Worked With
Pyrodinium bahamense var. *compressum*,
green mussel, pen shell

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

3

Where Worked

Philippines

Regional/International Program Participation

Languages

English, Pilipino

Citizenship

Philippines

Philippines

Gonzales, Cielito L.

Research scientist
Fishery Resources Research Division
Bureau of Fisheries
and Aquatic Resources
P.O. Box 623
860 Quezon Avenue, Quezon City
Metro Manila 3008
Philippines

Telephone: 632-987-075
Telex:
Fax: 632-988-517 and
632-987-871
Email:

Degrees
B.Sc.

General Expertise
Biology, chemistry, physiology, fisheries,
management

Specialty
Management of harmful algal blooms

**Toxic/Noxious Organisms
Worked With**
Pyrodinium bahamense var. *compressum*

Toxins Worked With
Saxitoxin

**Years of Experience with
Harmful Algae/Biotoxins**
11

Where Worked
Philippines

**Regional/International
Program Participation**
Ad Hoc Committee on Harmful Algal
Blooms (IOC/FAO); ASEAN-Canada Co-
operative Programme on Marine Science-
Phase II; Japan-RP Collaborative Re-
search on Toxic Red Tides

Languages
Filipino, English

Citizenship
Philippines

Maala, Amelia M.

Marine biologist
Fisheries Resources Research Division
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and Aquatic Resources
860 Quezon Avenue, Quezon City
Philippines

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Fax: 632-988-517 or 632-987-871
Email:

Degrees
Assoc. Fish.

General Expertise
Biology, fisheries

Specialty
Red tide monitoring in Philippine waters;
using phytoplankton to determine the pres-
ence of *Pyrodinium bahamense* var.
compressum in the plankton samples and
cysts in the sediment samples

**Toxic/Noxious Organisms
Worked With**
Pyrodinium bahamense var. *compressum*,
mussels, oysters, other shellfish

Toxins Worked With
Saxitoxins

**Years of Experience with
Harmful Algae/Biotoxins**
11

Where Worked
Philippines

**Regional/International
Program Participation**
Japan-RP Collaborative Research on Red
Tide Toxins Philippine Red Tide Monitor-
ing

Languages
Filipino, English

Citizenship
Philippines

Maclean, Jay

Director, Information Program
International Center for Living Aquatic
Resources Management (ICLARM)
MC P.O. Box 2631, Makati
Manila 6718
Philippines

Telephone: 632-818-0466
Telex:
Fax: 632-816-3183
Email: iclarm@cgnet.com

Degrees
M.Sc.

General Expertise
Biology, fisheries

Specialty
Pyrodinium in Asia/Pacific

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
22

Where Worked
Asia/Pacific

**Regional/International
Program Participation**

Languages
English

Citizenship
Australia

Relox, Juan, Jr.

Marine biologist
Bureau of Fisheries
and Aquatic Resources
Fisheries Resources Research Division
Arcadia Building
860 Quezon Ave., Quezon City
Philippines

Telephone: 632-987-075
Telex:
Fax:
Email:

Degrees
B.Sc.

General Expertise
Biology, fisheries

Specialty
Monitoring harmful algae

**Toxic/Noxious Organisms
Worked With**
Pyrodinium bahamense var. *compressum*,
green mussels (*Perna viridis*), oysters
(*Crassostrea* sp.)

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
7

Where Worked
Philippines

**Regional/International
Program Participation**
RP-Japan collaboration on toxic red tide
research. ASEAN-Canada Cooperative
Programme on Marine Science

Languages
English, Tagalog

Citizenship
Philippines

Philippines

Santos-Mendigo, Maria Andrea

Research scientist
Marine Science Institute
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Quezon City 1101
Philippines

Telephone: 632-989-676 local 7460
Telex:
Fax: 632-924-3735
Email:

Degrees
M.Sc.

General Expertise
Chemistry, toxicology

Specialty
Quantitative determinations by mouse bio-
assay; development of alternative assay
method using local blowflies; HPLC sys-
tem for PSP toxin analysis in shellfish and
in human urine; isolation of PSP toxins
from contaminated shellfish for use as stan-
dards in PSP monitoring and research;
presently developing antisera to PSP tox-
ins for use in detection kits

**Toxic/Noxious Organisms
Worked With**
Pyrodinium bahamense var. *compressum*,
Perna viridis

Toxins Worked With
Saxitoxins

**Years of Experience with
Harmful Algae/Biotoxins**
6

Where Worked
Philippines

**Regional/International
Program Participation**

Languages
English, Spanish, Filipino

Citizenship
Philippines

Sotto, Filippina

Section head
Marine Biology Section
University of San Carlos
Cebu City, Cebu 6000
Philippines

Telephone: 633-285-021 or 461-128
Telex:
Fax: 633-274-281 or 54-341
Email:

Degrees
B.Sc., M.Sc., Ph.D.

General Expertise
Biology, ecology, taxonomy, physiology,
management

Specialty
Phytoplankton in Visayas region; cytology
and taxonomy of microscopic inverte-
brates; ecology and dynamics of Magueña
Bay, where *Pyrodinium bahamense* occur
frequently; culture and management of
Pyrodinium bahamense

**Toxic/Noxious Organisms
Worked With**
Pyrodinium bahamense, *ciguatera*- and
DSP-causing dinoflagellates

Toxins Worked With
PSP

**Years of Experience with
Harmful Algae/Biotoxins**
10

Where Worked
Philippines, Japan

**Regional/International
Program Participation**
National Red Tide Network, Philippines;
UNESCO/IOC Harmful Algae Network

Languages
Japanese, English, Filipino

Citizenship
Philippines

Philippines

Young, Jason

Assistant researcher
Marine Biology Section
University of San Carlos
Cebu City, Cebu 6000
Philippines

Telephone: 633-285-021 or 46-128
Telex:
Fax: 633-254-341 or 74-281
Email:

Degrees

B.Sc., M.Sc. (cand.)

General Expertise

Biology, chemistry, ecology, aquaculture, monitoring

Specialty

Red tide monitoring in Philippine waters; phytoplankton ecology and culture

Toxic/Noxious Organisms

Worked With

Pyrodinium bahamense var. *compressum*

Toxins Worked With

Years of Experience with

Harmful Algae/Biotoxins

11

Where Worked

Philippines

Regional/International

Program Participation

Red Tide Monitoring in the Philippines (Region 7)

Languages

Pilipino, English

Citizenship

Philippines

Addendum

Philippines

Furio, Elsa F.

Bureau of Fisheries and Aquatic Resources
860 Quezon Avenue
Quezon City
Philippines

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Telex:
Fax: 63-2-987075
63-2-987871
Email:

Degrees

M.Sc.

General Expertise

Ecology, taxonomy

Specialty

Inventory of toxic dinoflagellates (both motile cells and cyst forms)

Toxic/Noxious Organisms

Worked With

Pyrodinium bahamense var. *compressum*, green mussels

Toxins Worked With

PSP

Years of Experience with

Toxic Algae/Biotoxins

8

Where Worked

Philippines, Japan

Regional/International

Program Participation

WESTPAC-IOC

Languages

English, Spanish, Japanese (just for usual conversation)

Citizenship

Philippines

Marasigan, Arnulfo

Associate Professor
Institute of Aquaculture,
College of Fisheries
University of the Phil. Visayas
Miag-ao, Iloilo 5073
Philippines

Telephone: 033-815-35 local 154
033-315-5080

Telex:
Fax: 03-33-815-34
Email:

Degrees

Ph.D.

General Expertise

Ecology, aquaculture

Specialty

Distribution and ecological studies

Toxic/Noxious Organisms

Worked With

Toxins Worked With

PSP, DSP

Years of Experience with

Toxic Algae/Biotoxins

5

Where Worked

Philippines

Regional/International

Program Participation

Languages

English

Citizenship

Philippines

Poland

Plinski, Marcin

Professor/research scientist
Department of Marine Biology
and Ecology
Institute of Oceanography
46 Pilsoskiego Str.
University of Gdansk 81-378
Poland

Telephone: 0-58-203310
Telex: 0-58-203310
Fax: 0-58-203310
Email:

Degrees

Ph.D

General Expertise

Biology, ecology, taxonomy, physiology

Specialty

Occurrence and ecology of blue-green algae and dinoflagellate blooms in the Baltic Sea, especially in coastal waters

Toxic/Noxious Organisms Worked With

Aphanizomenon flos-aqua, *Nodularia spumigena*, *Heterocapsa triquetra*, *Peridiniella catenata*

Toxins Worked With

Years of Experience

18

Where Worked

Baltic Sea

Regional/International Program Participation

Monitoring Polish coastal waters

Languages

English, Russian, Polish

Citizenship

Poland

Portugal

Icely, John David

Aquaculture consultant/scientist
Apartado 21
8650 Vila do Bispo
Portugal

Telephone: 351-82-66340
Telex:
Fax: 651-82-66004
Email:

Degrees
B.Sc., Ph.D.

General Expertise
Biology, aquaculture

Specialty
Monitoring offshore bivalve aquaculture enterprises

Toxic/Noxious Organisms Worked With
Prawns, bivalves

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked
Wales, East Africa, Papua New Guinea, Portugal

Regional/International Program Participation

Languages
English, Portuguese, French, Kiswahili

Citizenship
United Kingdom

Sampayo, Maria Antónja de M.

Research scientist
Instituto Português
de Investigação Marítima
Departamento de Ambiente Marítimo
Avenida de Brasília
1400 Lisboa
Portugal

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Telex: 15857 IPIMAR P
Fax: 351-1-301-5948
Email:

Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy, physiology, toxicology, fisheries, aquaculture, management, monitoring

Specialty
Monitoring of harmful phytoplankton species and toxicity through bioassay and HPLC; isolation and culturing of microalgae; experimental work on physiology, ecology, and toxicology or microalgae related with fisheries, aquaculture, and environmental problems; conservation of microalgae culture collection

Toxic/Noxious Organisms Worked With
Dinoflagellates, *Prymnesiophyceae*, *Heterosigma*, shellfish species, sardines

Toxins Worked With
DSP, PSP

Years of Experience with Harmful Algae/Biotoxins
13

Where Worked
Europe, Iberian Peninsula

Regional/International Program Participation
National monitoring for toxic algae and shellfish toxicity; dynamics of toxic phytoplankton on the Portuguese Coast

Languages
Portuguese, Spanish, French, English

Citizenship
Portugal

Vasconcelos, Vitor Manuel

Research scientist
Instituto de Zoologia
Praça Gomes Teixeira
4000 Porto
Portugal

Telephone: 351-2-310-290
Telex:
Fax: 351-2-200-4777
Email:

Degrees
M.Sc.

General Expertise
Ecology, toxicology

Specialty
Isolation of cyanobacteria strains; purification of toxins by HPLC; detection of freshwater cyanobacteria toxins in drinking water; quantification of toxins in estuarine shellfish

Toxic/Noxious Organisms Worked With
Microcystis aeruginosa, *Anabaena flos-aquae*, *Aphanizomenon flos-aquae*, *Mytilus galloprovincialis*

Toxins Worked With
Microcystins

Years of Experience with Harmful Algae/Biotoxins
4

Where Worked
Portugal (including the Azores), Morocco

Regional/International Program Participation
Monitoring drinking water in Portugal in cooperation with water companies, the Portuguese Environment Ministry, and the Portuguese Health Ministry

Languages
Portuguese, Spanish, French, English, Italian

Citizenship
Portugal

Qatar

Almuftah, Abdul Rahman

Lecturer
Faculty of Sciences
Marine Science Department
P.O. Box 2713
Qatar University-Doha
Qatar

Telephone: (974) 892-210
Telex:
Fax: (974) 835-111
Email:

Degrees Ph.D.

General Expertise Biology, taxonomy

Specialty Dinoflagellates of Qatari waters; monitoring algal blooms in Qatari waters

Toxic/Noxious Organisms Worked With

Toxins Worked With *Pyrodinium* sp.

Years of Experience 4

Where Worked Arabian Gulf

Regional/International Program Participation

Languages Arabian, English

Citizenship Qatar

Republic of Korea

An, Kyoung-Ho

Junior scientist
Environment Research Division
National Fisheries Research
and Development Agency
Shirang-ri, Kijang-up, Yangsan-gun
Kyoungsangnam-do, Pusan, 626-900
Republic of Korea

Telephone: 82-523-361-8052
Telex: K52647
Fax: 82-523-361-8076
Email:

Degrees
M.S.

General Expertise
Biology, ecology, taxonomy

Specialty
Identification of toxic algae and cysts, di-
noflagellate physiology

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense, *Cochlodinium*
polykrikoides

Toxins Worked With
PSP and ASP

**Years of Experience with
Toxic Algae/Biotoxins**
9

Where Worked
Asia

**Regional/International
Program Participation**

Languages
Korean, English, French, Japanese

Citizenship
Republic of Korea

Han, Myung-Soo

Department of Biology
College of Natural Sciences
Hanyang University
Seoul, 113-791
Republic of Korea

Telephone: 82-2-290-0956
Telex:
Fax: 82-2-298-0319
Email:

Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy, physiology,
toxicology, public health

Specialty
PSP in the mussels and dinoflagellates
from Chinhae Bay; distribution and toxin
profiles of *Alexandrium tamarense*; toxic
dinoflagellate blooms of *Alexandrium*
tamarense; causative organisms of PSP in
Chinhae Bay

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
10

Where Worked
Korea and Japan

**Regional/International
Program Participation**

Languages
Korean, Japanese, English

Citizenship

Kim, Hak-Gyoon

Director
Environment Research Division
Oceanography and Marine
Resources Department
National Fisheries Research
and Development Agency
Shirang-ri, Kijang-up, Yangsan-gun
Kyoungsangnam-do, Pusan, 626-900
Republic of Korea

Telephone: 82-523-361-8068
Telex: K52647
Fax: 82-523-361-8076
Email:

Degrees
Ph.D.

General Expertise
Biology, ecology, fisheries, public health,
management

Specialty
Monitoring and management of harmful
algal blooms, as well as environmental
physiology

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense, *G. catenatum*/
mussels, oysters

Toxins Worked With
PSP and DSP

**Years of Experience with
Toxic Algae/Biotoxins**
14

Where Worked
Asia

**Regional/International
Program Participation**
APEC/MRC WG, NACA/FAO

Languages
Korean, English, French, Japanese

Citizenship
Republic of Korea

Kim, Se-Wha

Professor
Department of Environmental Health
Yongin University
San 117-6, Samga-ri, Yongin-eup,
Yongin-gun
Kyunggi-dho 449-714
Republic of Korea

Telephone: 81-0335-30-2706
Telex:
Fax: 81-0335-32-6479
Email:

Degrees
Ph.D.

General Expertise
Biology, ecology, aquaculture

Specialty
Relationship between grazing and red tide
occurrences

**Toxic/Noxious Organisms
Worked With**
Secondary producers, particularly cla-
docerans

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
13

Where Worked
Coastal waters of the northwestern Pacific

**Regional/International
Program Participation**
Physiological ecology of red-tide phy-
toplankton in eutrophic coastal areas

Languages
English, Korean, Japanese, French

Citizenship
Republic of Korea

Republic of Korea

Lee, Jin-Hwan

Professor
Department of Biology
Sangmyung Women's University
7 Hongji-Dong, Jongro-gu
Seoul 110-743
Republic of Korea

Telephone: Seoul-287-5152
Telex:
Fax: Seoul-396-6116
Email:

Degrees
Ph.D.

General Expertise
Taxonomy, toxicology

Specialty
Taxonomy of harmful algae (*P. pungens* f.
multiseries); population dynamics of this
species in mussels; assay of algal toxins

**Toxic/Noxious Organisms
Worked With**
Pseudonitzschia pungens f. *multiseries*

Toxins Worked With
Domoic acid

**Years of Experience with
Toxic Algae/Biotoxins**
5

Where Worked
Far East Asia (Korea)

**Regional/International
Program Participation**

Languages
Korean, English

Citizenship
Republic of Korea

Lee, Joon-Baek

Professor
Department of Oceanography
College of Ocean Sciences
Cheju National University
Cheju 690-756
Republic of Korea

Telephone: 82-64-54-3435
Telex:
Fax: 82-64-56-3473
Email:

Degrees
Ph.D.

General Expertise
Ecology, taxonomy

Specialty
Taxonomy and ecology of dinoflagellates
including harmful algae; life cycles of di-
noflagellate cysts

**Toxic/Noxious Organisms
Worked With**
Prorocentrum and *Alexandrium*

Toxins Worked With

**Years of Experience with
Toxic Algae/Biotoxins**
12

Where Worked
Southern Korean waters and East China
Sea

**Regional/International
Program Participation**
International Conference on Toxic Marine
Phytoplankton

Languages
Korean, English, and Japanese

Citizenship
Republic of Korea

Republic of Korea

Lee, Sam-Geun

Senior scientist
National Fisheries Research
and Development Agency
Shirang-ri, Kijang-up, Yangsan-gun
Kyoungsangnam-do, Pusan, 626-900
Republic of Korea

Telephone: 82-523-361-8052
Telex: K52647
Fax: 82-523-361-8076
Email:

Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy, physiology,
fisheries

Specialty
Identification of harmful and red tide or-
ganisms using both light and electron mi-
croscopes; dinoflagellate physiology; cyst
isolation

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense, *Dinophysis acu-
minata*, *C. polykrikoides*

Toxins Worked With
PSP and ASP

**Years of Experience with
Toxic Algae/Biotoxins**
12

Where Worked
Asia

**Regional/International
Program Participation**

Languages
Korean, English, and Japanese

Citizenship
Republic of Korea

Park, Joo-Suck

General director
National Fisheries Research
and Development Agency
Shirang-ri, Kijang-up, Yangsan-gun
Kyoungsangnam-do, Pusan, 626-900
Republic of Korea

Telephone: 82-51-465-0096
Telex: K52647
Fax: 82-523-361-8076
Email:

Degrees
Ph.D.

General Expertise
Biology, taxonomy, fisheries, management

Specialty
Management of harmful toxic algal blooms
and taxonomy of toxic species

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense, *G. mikimotoi*
shellfish and finfish

Toxins Worked With
PSP, DSP, and ASP

**Years of Experience with
Toxic Algae/Biotoxins**
25

Where Worked
Asia

**Regional/International
Program Participation**
IOC/WESTPAC, APEC/MRC, NACA/
FAO

Languages
Korean, English, French, Japanese

Citizenship
Republic of Korea

Shim, Jeong-Min

Junior scientist
Environment Research Division
National Fisheries Research
and Development Agency
Shirang-ri, Kijang-up, Yangsan-gun
Kyoungsangnam-do, Pusan, 626-900
Republic of Korea

Telephone: 82-523-361-8052
Telex: K52647
Fax: 82-523-361-8076
Email:

Degrees
M.S.

General Expertise
Biology, taxonomy

Specialty
Identification of harmful algae and red tide
organisms

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense, *Dinophysis fortii*

Toxins Worked With
PSP and DSP

**Years of Experience with
Toxic Algae/Biotoxins**
3

Where Worked
Asia

**Regional/International
Program Participation**

Languages
Korean, English

Citizenship
Republic of Korea

Romania

Bodeanu, Nicolae

Head, Marine Ecology Laboratory
Romanian Marine Research Institute
Bd. Mamaia 300
8700 Constanta 3
Romania

Telephone: 40-41-65-08-70
Telex: 14418
Fax: 40-41-65-08-70
Email:

Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy

Specialty

Marine phytoplankton and microphyto-benthos composition and quantity; obser-vation and analysis of bloom events in the Black Sea, most under extreme eutrophication conditions

Toxic/Noxious Organisms Worked With

Phytoplankton of the Black Sea

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

20

Where Worked

Black Sea

Regional/International Program Participation

Romanian national programs

Languages

French, English, Russian

Citizenship

Romania

Mihnea, Pia Elena

Senior scientist
Romanian Marine Research Institute
Bd. Mamaia 300
8700 Constanta
Romania

Telephone: 40-91-64-32-88
Telex: 14418
Fax: 40-91-83-12-74
Email:

Degrees

Ph.D.

General Expertise

Ecology, physiology, taxonomy, toxicol-ogy

Specialty

Identification of algal species; field obser-vations of density, frequency, correlations with environmental factors; laboratory ex-periments on physiology, algae-pollutants impact; pigments and algal biomarkers

Toxic/Noxious Organisms Worked With

Skeletonema costatum, *Nitzschia closterium*, *N. delicatissima*, *Cerataulina pelagica*, *Prorocentrum caudatum*, *Heterocapsa triquetra*, *Eutreptia lanowii*, *Apedonella spinifera*, *Chrysochromulina* spp., *Chromulina* sp., nano- and ultranano species

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

23

Where Worked

Romanian Black Sea

Regional/International Program Participation

Regional Phare programs on the effects of pollution on Black Sea; Action Plan on the Mediterranean-Black Sea; Romanian Ma-rine Research Institute program regarding effects of pollution on the Black Sea

Languages

Romanian, English, French

Citizenship

Romania

Rua, Georgeta

Research scientist
Romanian Institute
for Marine Research
Bd. Mamaia, 300
8700 Constanta
Romania

Telephone: 40-91-64-32-88;
40-91-65-08-70

Telex:
Fax: 40-91-83-12-74
Email:

Degrees

General Expertise

Ecology, taxonomy

Specialty

Phytoplankton of the Black Sea

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked

Black Sea

Regional/International Program Participation

Romanian national programs

Languages

Russian, English

Citizenship

Romania

Russian Federation

Bukhanevich, Ivan

Director
Informcenter VNIRO
107140, V. Krasnoselskaya - 17
Moscow
Russia

Telephone: 7-095-228-83-16
Telex:
Fax: 7-095-264-91-87
Email:

Degrees
Ph.D.

General Expertise
Biology, ecology, fisheries, aquaculture, management

Specialty
Liquitation of consequences of harmful algal blooms

Toxic/Noxious Organisms Worked With
Sturgeon and salmon

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
40

Where Worked
Azov & Caspian Seas, Arab Gulf

Regional/International Program Participation

Languages
Russian, English

Citizenship
Russia

Konovalova, Galina V.

Senior scientist
Far East Branch
Russian Academy of Science
Kamchatka Department of Ecology and Nature Management
Partizanskaya St. 6
Petropavlosk-Kamchatsky
Kamchatskaya 683000
Russia

Telephone: 8-415-227-06-49
Telex:
Fax:
Email: pine@green.kamchatka.su

Degrees
Cand. Biol. Sci.

General Expertise
Biology, ecology, taxonomy

Specialty
Morphology, taxonomy, and ecology of phytoflagellates; phytoplankton blooms and red tides caused by toxic dinoflagellates

Toxic/Noxious Organisms Worked With
Alexandrium acatenella, *A. tamarense*, *Gymnodinium catenatum*, *Dinophysis acuminata*, *D. acuta*, *D. fortii*, *Heterosigma akashio*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
10

Where Worked
Sea of Japan, Sea of Okhotsk, Kamchatka coastal waters, Peru, Vietnam

Regional/International Program Participation
Russia Study Group 4: HAB, of OSLR
IOC WESTPAC

Languages
Russian, English

Citizenship
Russia

Sukhanova, Irina

Research scientist
P.P. Shirshov Institute of Oceanology
Academy of Sciences of Russia
23 Krasikova
Moscow 117851
Russia

Telephone: 007-095-124-51-90
Telex: 411968 OKEAN SU
Fax: 007-095-124-59-83
Email: OMNET: m.flint

Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy

Specialty
Experience in dinoflagellate bloom studies: mechanisms responsible for development and degradation of blooms in the Black Sea; causes and dynamics of dinoflagellate and diatom blooms in nearshore areas

Toxic/Noxious Organisms Worked With
Exuviaella cordata, *E. compressa*, *Gonyaulax tamarensis*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
15

Where Worked
Black Sea, Mediterranean Sea, Bering Sea, Baltic Sea, Indian Ocean, Pacific Ocean, Antarctic Ocean

Regional/International Program Participation
Russian-Bulgarian joint program for investigation of the nearshore ecosystem of the Eastern Black Sea

Languages
Russian, English

Citizenship
Russia

Russian Federation

Orlova, Tatyana

Research scientist
Institute of Marine Biology
Academy of Sciences of Russia
Palchevskogo St. 17
Vladivostok 690041
Russia

Telephone: 4232-31-09-05
Telex:
Fax: 4232-31-09-00
Email: faribm@visenet.marine.su

Degrees
Ph.D.

General Expertise
Ecology, taxonomy

Specialty
Identification of harmful algae, ecological expertise (density, biomass, dominant species)

Toxic/Noxious Organisms Worked With
Pseudonitzschia multiseries, *Dinophysis acuminata*, *Prorocentrum minimum*

Toxins Worked With

Years of Experience with Toxic Algae/Biotoxins
10

Where Worked
Sea of Japan

Regional/International Program Participation

Languages
English

Citizenship
Russia

Saudi Arabia

Al-Thukair, Assad Ahmed

Assistant professor/research scientist
The Research Institute
King Fahd University of Petroleum
and Minerals
P.O. Box 157
Dhahran 31261
Saudi Arabia

Telephone: 966-3-860-4180
Telex: 801913 KFUPMISJ
Fax: 966-3-860-4180
Email: BITNET:
rsid31d@saupm00.bitnet

Degrees

B.Sc., M.S., Ph.D.

General Expertise

Biology, ecology, taxonomy, toxicology

Specialty

Taxonomy of blue-green algae (cyanobacteria); species that can cause blooms

Toxic/Noxious Organisms

Worked With
Microcystis sp., *Anabaena* sp.,

Toxins Worked With

Anatoxin-a

Years of Experience

2

Where Worked

Saudi Arabia

Regional/International Program Participation

Meteorological and Environmental Protection Program, Saudi Arabia

Languages

Arabic, English

Citizenship

Saudi Arabia

Singapore

Gopalakrishnakone, Ponnampalam

Chairman
Venom and Toxins Research Group
Department of Anatomy
Faculty of Medicine
National University of Singapore
Singapore 0511
Singapore

Telephone: (65) 772-3207
Telex:
Fax: (65) 778-7643
Email: INTERNET:
antgopal@leonis.nus.sg
BITNET:
rg05502@nusvm

Degrees

M.B.B.S., Ph.D., FAMS

General Expertise

Biology, toxicology, medicine

Specialty

Toxicity testing, scanning electron microscopy

Toxic/Noxious Organisms

Worked With
Fish, shellfish

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked

Southeast Asia

Regional/International Program Participation

Languages

English

Citizenship

Singapore

Holmes, Michael James

Research fellow
Bioscience Center
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511
Singapore

Telephone: (65) 772-6867
Telex:
Fax: (65) 779-2486
Email: INTERNET:
zoohmj@leonis.nus.sg

Degrees

B. App. Sc., Ph.D.

General Expertise

Biology, toxicology

Specialty

Ciguatera (fish poisoning); distribution, isolation, and culture of dinoflagellates; extraction and purification of toxins from fish and dinoflagellates

Toxic/Noxious Organisms

Worked With
Gambierdiscus toxicus, *Ostreopsis siamensis*, *Prorocentrum*, *Coolia monotis*, ciguatera fish

Toxins Worked With

Ciguaterins, maitotoxins

Years of Experience with Harmful Algae/Biotoxins

10

Where Worked

Australia

Regional/International Program Participation

Languages

English

Citizenship

Australia

South Africa

Pitcher, Grant C.

Assistant director
Biological Oceanography
Sea Fisheries Research Institute
Private Bag X2
Roggebaai 8012
Capetown
South Africa

Telephone: 27-21-439-6160
Telex:
Fax: 27-21-439-9345
Email: gpitcher@sp.sfri.ac.za

Degrees

Ph.D.

General Expertise

Biology, physics, ecology, taxonomy,
physiology, fisheries, aquaculture

Specialty

Physiology, ecology, and dynamics of
HABS within upwelling systems

Toxic/Noxious Organisms Worked With

Alexandrium catenella, *Dinophysis acumi-*
inata, *Gymnodinium nagasakiense*

Toxins Worked With

PSP, DSP

Years of Experience with Harmful Algae/Biotoxins

5

Where Worked

South African coast

Regional/International Program Participation

SCOR/IOC Working Group on Physiological
Ecology of HABS; ICES Working
Group on HAB Dynamics

Languages

English

Citizenship

South Africa

Spain

Aguilera, Angeles

Doctoral student
Genetica, Departamento
Producción Animal
Facultad de Veterinaria
Universidad Complutense de Madrid
Avenida Puerta de Hierro, s/n
28040 Madrid
Spain

Telephone: 34-1-394-3769
Telex:
Fax: 34-1-394-3778
Email:

Degrees
M.Sc.

General Expertise
Biology, genetics

Specialty
Identification of harmful algal species using molecular probes; cell division cycle

Toxic/Noxious Organisms Worked With
Gymnodinium catenatum, *Prorocentrum lima*, several species of *Alexandrium*

Toxins Worked With
Okadaic acid

Years of Experience with Harmful Algae/Biotoxins

Where Worked
Spain

Regional/International Program Participation

Languages
Spanish, English

Citizenship
Spain

Alvarez-Ossorio, Maria Teresa

Research scientist
Instituto Español de Oceanografía
Centro Costero de la Coruña
Apdo. 130
E15080 La Coruña
Spain

Telephone: 34-81-205362
Telex:
Fax: 34-81-229077
Email:

Degrees
Graduate in biology

General Expertise
Biology, ecology, aquaculture, monitoring

Specialty
Ecology of neritic zooplankton; culture of decapod larvae

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked
N.W. Spain (Galicia)

Regional/International Program Participation

Languages
Spanish, English

Citizenship
Spain

Berenguer Soler, Joaquin Antonio

Research scientist
Section of Mycology, Parasitology, and Special Techniques
Health Institute Carlos III
National Center for Food Control
Ctra. Majadahonda Pozuelo Km2
28220 Majadahonda (Madrid)
Spain

Telephone: 34-1-638111 Ext. 276
Telex:
Fax: 34-1-6342812
Email:

Degrees
Ph.D.

General Expertise
Biology, public health

Specialty
Public health issues related to blooms and PSP/DSP biotoxins in Spain; monitoring programs; analytical determination of biotoxins (bioassays and chemical analysis); detoxification of shellfish

Toxic/Noxious Organisms Worked With
Shellfish, bivalve molluscs (*Mytilus*, *Acanthocardia*, *Callista*, *Cardium*)

Toxins Worked With
PSP and DSP

Years of Experience with Harmful Algae/Biotoxins
16

Where Worked
Atlantic and Mediterranean coasts of Spain

Regional/International Program Participation
National programs of public health related to biotoxins produced by harmful algae

Languages
Spanish, English, French

Citizenship
Spain

Bode, Antonio

Research scientist
Instituto Español de Oceanografía
Centro Costero de la Coruña
Apdo. 130
E15080 La Coruña
Spain

Telephone: 34-81-205362
Telex:
Fax: 34-81-229077
Email:

Degrees
Ph.D.

General Expertise
Biology, ecology

Specialty
Ecology of neritic plankton; productivity and nitrogen uptake/regeneration; phytoplankton dynamics

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked
Spain, Gulf of Mexico

Regional/International Program Participation

Languages
Spanish, English, French

Citizenship
Spain

Botana, Luis M.

Professor
Departamento de Farmacología
Facultad de Veterinaria
Universidad de Santiago
Campus de Lugo
27002 Lugo
Spain

Telephone: 34-82-252-242
Telex:
Fax: 34-82-252-195
Email:

Degrees
Ph.D.

General Expertise
Biology, physiology, toxicology, veterinary medicine, pharmacology

Specialty
Isolation, characterization, and purification of PSP and DSP toxins; development of new technologies to quantify PSP and DSP toxins; pharmacology and toxicology of PSP and DSP

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
8

Where Worked
New Jersey and Maryland (United States), Germany, England, Japan, Denmark, Spain

Regional/International Program Participation
BCR Program

Languages
English, Spanish

Citizenship
Spain

Burdaspal, Pedro A.

Head of chemical area
Centro Nacional de Alimentación
Instituto de Salud Carlos III
Carretera de Majadahonda
a Pozuelo, Km 2
28220 Majadahonda, Madrid
Spain

Telephone: 34-1-638-1111
Telex:
Fax: 34-1-634-2812
Email:

Degrees
Ph.D.

General Expertise
Public health, analysis

Specialty
Analytical control of marine biotoxins (PSP, DSP, ASP); effect of commercial processing on PSP contamination; preparation of PSP reference materials

Toxic/Noxious Organisms Worked With
Mussels, clams, oysters, Mediterranean cockle

Toxins Worked With
PSP, DSP (okadaic acid)

Years of Experience with Harmful Algae/Biotoxins
13

Where Worked
Spanish coast (Galicia and Southern Mediterranean coast)

Regional/International Program Participation

Languages
English, Spanish

Citizenship
Spain

Spain

Bustos, Juana

Scientist
Centro Nacional de Alimentación
Instituto de Salud Carlos III
Carretera de Majadahonda
a Pozuelo, Km 2
28220 Majadahonda, Madrid
Spain

Telephone: 34-1-638-1111
Telex:
Fax: 34-1-634-2812
Email:

Degrees

University degree in pharmacy

General Expertise

Public health, analysis

Specialty

Analytical control of marine biotoxins (PSP, DSP, ASP); effect of commercial processing on PSP contamination; preparation of PSP reference materials

Toxic/Noxious Organisms Worked With

Mussels, clams, oysters, Mediterranean cockle

Toxins Worked With

PSP

Years of Experience with Harmful Algae/Biotoxins

4

Where Worked

Spanish coast (Galicia and Southern Mediterranean coast)

Regional/International Program Participation

Languages
English, Spanish

Citizenship
Spain

Cacho Barrio, Emiliano

Research scientist
Laboratorio Comunitario
de Referencia para Biotoxinas
Mariñas Ministerio de Sanidad
y Consumo
Apartado 901CO
36280 Vigo, Pontevedra
Spain

Telephone: 34-86-434133 or 436073
Telex:
Fax: 34-86-432188
Email:

Degrees

Chemistry

General Expertise

Chemistry, toxicology, public health

Specialty

Analysis of PSP and DSP toxins

Toxic/Noxious Organisms Worked With

Bivalves in general, *Prorocentrum lima*, *Dinophysis* spp., *Gymnodinium catenatum*, *Alexandrium* spp.

Toxins Worked With

PSP, DSP

Years of Experience with Harmful Algae/Biotoxins

Where Worked

N.W. Spain

Regional/International Program Participation

CRL, European Union; IOC Programme on HABs

Languages

Spanish, English, French, Portuguese

Citizenship

Spain

Candenas, Maria Luz

Research scientist
Department of Pharmacology
Faculty of Pharmacy
University of Valencia
Avda. Vicent Andrés Estellés, s/n
46100 Burjassot, Valencia
Spain

Telephone: 34-6-3864948
Telex:
Fax: 34-6-3864943
Email:

Degrees

Ph.D.

General Expertise

Biology, physiology, toxicology, medicine

Specialty

Effects of marine toxins in smooth muscle contraction/relaxation mechanisms; interactions with calcium; chemical structure-activity relationships

Toxic/Noxious Organisms Worked With

Prorocentrum lima

Toxins Worked With

Okadaic acid

Years of Experience with Harmful Algae/Biotoxins

3

Where Worked

France, Spain

Regional/International Program Participation

Application of simple strategies to build transfused complex polyetheric systems; stereo controlled synthesis of the oxocyclic skeleton of ciguatoxin; MEC project

Languages

Spanish, French, English

Citizenship

Spain

Costas, Eduardo

Research scientist
Genética (Producción Animal)
Facultad de Veterinaria
Universidad Complutense de Madrid
Avenida Puerta de Hierro, s/n
28040 Madrid
Spain

Telephone: 34-91-394-3769
Telex:
Fax: 34-91-394-3778
Email:

Degrees

Ph.D.

General Expertise

Biology, genetics

Specialty

Biological mechanisms controlling cell division cycle (rhythms, mitogenes, growth factors); identification of species; stains using molecular probes (lectins, antibodies, DNA)

Toxic/Noxious Organisms Worked With

Prorocentrum lima, *Gymnodinium catenatum*, *Alexandrium minutum*

Toxins Worked With

Okadaic acid

Years of Experience with Harmful Algae/Biotoxins

10

Where Worked

Northwest Spain

Regional/International Program Participation

Languages
Spanish, English

Citizenship
Spain

Spain

Delgado, Maximino

Scientist
Instituto de Ciencias del Mar
P. Joan de Borbó, s/n
08039 Barcelona
Spain

Telephone: 34-3-221-6450
Telex:
Fax: 34-3-221-7340
Email:

Degrees

Ph.D.

General Expertise

Biology, taxonomy

Specialty

Phytoplankton monitoring programs for bivalve culture

Toxic/Noxious Organisms Worked With

Alexandrium minutum, *Dinophysis* spp.

Toxins Worked With

PSP, DSP

Years of Experience with Harmful Algae/Biotoxins

1

Where Worked

Western Mediterranean

Regional/International Program Participation

Generalitat de Catalunya phytoplankton monitoring along the Catalan coast

Languages

Spanish, English

Citizenship

Spain

Estrada, Marta

Senior research scientist
Instituto de Ciencias del Mar
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Spain

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marta@masagran.uab.es

Degrees

Ph.D.

General Expertise

Biology, ecology

Specialty

Distribution of phytoplankton communities in relation to hydrographic conditions

Toxic/Noxious Organisms Worked With

Gymnodinium catenatum, *Dinophysis* spp.

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

7

Where Worked

Western Mediterranean, Atlantic coast of Iberian Peninsula

Regional/International Program Participation

Monitoring program on the Catalan coast

Languages

Catalan, Spanish, French, English, Italian, German (read)

Citizenship

Spain

Spain

Fernandez, Emilio

Research scientist
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Spain

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Email: EAN (DECNET):
emilio@iim.csic.es

Degrees

Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Physiological ecology of phytoplankton blooms; determination of *in situ* growth rates; experience working on *Phaeocystis* and *Emiliania*

Toxic/Noxious Organisms

Worked With

Phaeocystis sp., *Gymnodinium aureolum*, *Emiliania*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

4

Where Worked

Norwegian fjords, North Atlantic Ocean, subtropical North Atlantic, Bay of Biscay

Regional/International Program Participation

Iberia

Languages

English

Citizenship

Spain

Fernandez Cañamero, Maria Luisa

Laboratorio Comunitario de Referencia para Biotoxinas Mariñas
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Email:

Degrees

Chemistry

Toxic/Noxious Organisms Worked With

Bivalves in general, *Prorocentrum lima*, *Dinophysis* spp., *Gymnodinium catenatum*, *Alexandrium* spp.

Toxins Worked With

PSP, DSP

Years of Experience with Harmful Algae/Biotoxins

Where Worked

N.W. Spain

Regional/International Program Participation

CRL, European Union; IOC Programme on HABs

Languages

Spanish, English, Portuguese

Citizenship

Spain

Fernandez-Sanchez, Maria Teresa

Associate professor
Department of Functional Biology
Division of Biochemistry
School of Medicine
University of Oviedo
E 33006 Oviedo
Spain

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Fax: 34-8-510-3534

Email:

Degrees

Ph.D.

General Expertise

Toxicology, neurotoxicology

Specialty

Neurotoxic effect of domoic acid and okadaic acid in cultured cerebellar neurons

Toxic/Noxious Organisms Worked With

Toxins Worked With

Domoic and okadaic acids

Years of Experience with Harmful Algae/Biotoxins

5

Where Worked

United States, Spain

Regional/International Program Participation

Neurotoxicological bioassays for laboratories in various countries including Spain, Canada, and the United States

Languages

English

Citizenship

Spain

Spain

Fraga, Santiago

Research scientist
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Spain

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Email: insovigo@cesga.es

Degrees

Licenciado Ciencias Biológicas

General Expertise

Biology, ecology, taxonomy, monitoring

Specialty

Monitoring harmful algae; isolation and culturing of microalgae; taxonomy of dinoflagellates; relations between hydrography and phytoplankton

Toxic/Noxious Organisms Worked With

Alexandrium spp., *Gymnodinium catenatum*, *Dinophysis* spp., *Prorocentrum* spp., *Heterosigma akashiwo*, *Pseudonitzschia* sp.

Toxins Worked With

PSP, DSP, ASP

Years of Experience with Harmful Algae/Biotoxins

14

Where Worked

Eastern Atlantic

Regional/International Program Participation

Languages

Spanish, English, Portuguese

Citizenship

Spain

Franco, Jose M.

Research scientist
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Email:

Degrees

Ph.D.

General Expertise

Biology, chemistry, physiology, toxicology

Specialty

Chemical analysis of algal toxins (HPLC); alternative methods of analysis for algal cultures; growth and production studies; intoxication and detoxification dynamics in bivalves

Toxic/Noxious Organisms Worked With

Gymnodinium catenatum, *Alexandrium* spp., cyanobacteria, mussels, clams

Toxins Worked With

PSP

Years of Experience with Harmful Algae/Biotoxins

4

Where Worked

Northern Spain

Regional/International Program Participation

IOC-FAO Programme on HABs

Languages

Spanish, French, English

Citizenship

Spain

Spain

Gago-Martinez, Ana

Research scientist
Department of Analytical Chemistry
Faculty of Sciences
University of Vigo
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Spain

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Degrees
Ph.D.

General Expertise
Chemistry, toxicology

Specialty
Development and improvement of analytical methodology for PSP and DSP toxins

Toxic/Noxious Organisms Worked With
Bivalve molluscs

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked
Spain, Portugal, Ireland, The Netherlands, Canada

Regional/International Program Participation

Languages
Spanish

Citizenship
Spain

Gonzales, Nicolas

Director
Instituto Español de Oceanografía
Centro Oceanográfico de la Coruña
Muelle de Animas s/n
15001 La Coruña
Spain

Telephone: 34-981-211451
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Fax: 34-981-211451
Email:

Degrees
Lcdo. Quimica

General Expertise
Chemistry, monitoring

Specialty
Coordination of red tide monitoring programs; nutrient determination

Toxic/Noxious Organisms Worked With
Mussels

Toxins Worked With
PSP and DSP

Years of Experience with Harmful Algae/Biotoxins
18

Where Worked
N.W. Spain

Regional/International Program Participation
Red tide monitoring in Spain

Languages
Spanish, English

Citizenship
Spain

Gonzalez-Gil, Sonsoles

Doctoral student
Genetica, Departamento
Produccion Animal
Facultad de Veterinaria
Universidad Complutense de Madrid
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28040 Madrid
Spain

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Email:

Degrees
M.Sc.

General Expertise
Biology, genetics

Specialty
Identification of harmful algae species using molecular probes (lectins, polyclonal antibodies); cell division cycle control

Toxic/Noxious Organisms Worked With
Prorocentrum lima, *Gymnodinium catenatum*, *Alexandrium*

Toxins Worked With
Okadaic acid

Years of Experience with Harmful Algae/Biotoxins

Where Worked
Spain

Regional/International Program Participation

Languages
English, Spanish

Citizenship
Spain

Legarda, Teresa M.

Scientist
Centro Nacional de Alimentacion
Instituto de Salud Carlos III
Carretera de Majadahonda
a Pozuelo, Km 2
28220 Majadahonda, Madrid
Spain

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Telex:
Fax: 34-1-634-2812
Email:

Degrees
University degree in pharmacy

General Expertise
Public health, analysis

Specialty
Analytical control of marine biotoxins (PSP, DSP, ASP); effect of commercial processing on PSP contamination; preparation of PSP reference materials

Toxic/Noxious Organisms Worked With
Mussels, clams, oysters, Mediterranean cockle

Toxins Worked With
PSP, DSP (okadaic acid)

Years of Experience with Harmful Algae/Biotoxins
12

Where Worked
Spanish coast (Galicia and Southern Mediterranean coast)

Regional/International Program Participation

Languages
English, Spanish

Citizenship
Spain

Spain

Leira Sanmartín, Francisco José

Research scientist
National Association of Manufacturers and Producers of Canned Fish and Shellfish
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Spain

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Email:

Degrees
Licenciate in Veterinary

General Expertise
Chemistry, toxicology, aquaculture, veterinary medicine

Specialty
Bioassay method for PSP and DSP toxins; determination of okadaic acid by HPLC; DSP toxin stability; comparison between bioassay and HPLC methods for detection of DSP toxins

Toxic/Noxious Organisms Worked With
Dinophysis spp., bivalve molluscs

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
2

Where Worked
Spain

Regional/International Program Participation

Languages
Spanish

Citizenship
Spain

Lopez-Rodas, Victoria

Senior scientist
Genetica, Producción Animal
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Spain

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Email:

Degrees
Ph.D.

General Expertise
Biology, genetics

Specialty
Cell division cycle control; biological rhythms; identification of harmful algal species using molecular probes

Toxic/Noxious Organisms Worked With
Prorocentrum lima, *Alexandrium* sp., *Gymnodinium catenatum*

Toxins Worked With
Okadaic acid

Years of Experience with Harmful Algae/Biotoxins
7

Where Worked
Spain

Regional/International Program Participation

Languages
Spanish, French

Citizenship
Spain

Spain

Maneiro, Juan

Research scientist
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do Medio Mariño
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Spain

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Email:

Degrees
M.Sc.

General Expertise
Biology, ecology, taxonomy, monitoring

Specialty
Phytoplankton monitoring; general taxonomy and ecology

Toxic/Noxious Organisms Worked With
Dinophysis spp., *Gymnodinium catenatum*, *Alexandrium* spp., *Heterosigma akashiwo*, *Gyrodinium* cf. *aureolum*, *Mesodinium rubrum*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked
Galician Rias

Regional/International Program Participation
IOC-FAO Programme on Harmful Algal Blooms; ICES Programme on the Population Dynamics of HABs; Pilot Project IBERIA: Monitoring of phytoplankton and environmental conditions on the Galician coast (Consellería de Pesca, Autonomous Government of Galicia, Spain)

Languages
Spanish, Galician, English, French

Citizenship
Spain

Marliño, Joaquín

Director
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Email:

Degrees
M.Sc.

General Expertise
Ecology, taxonomy, management, monitoring

Specialty
Phytoplankton monitoring; general taxonomy and ecology; managing the effect of toxic outbreaks

Toxic/Noxious Organisms Worked With
Dinophysis spp., *Gymnodinium catenatum*, *Alexandrium* spp., *Heterosigma akashiwo*, *Gyrodinium* cf. *aureolum*, *Mesodinium rubrum*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked
Galician Rias, Antarctic Ocean

Regional/International Program Participation
IOC-FAO Programme on Harmful Algal Blooms; ICES Programme on the Population Dynamics of HABs; Pilot Project IBERIA: Monitoring of phytoplankton and environmental conditions on the Galician coast (Consellería de Pesca, Autonomous Government of Galicia, Spain)

Languages
Spanish, Galician, English, French

Citizenship
Spain

Martinez, Ana

Director
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Degrees
Veterinary

General Expertise
Chemistry, toxicology, public health

Specialty
Analysis of PSP and DSP

Toxic/Noxious Organisms Worked With
Bivalves, *Haliotus tuberculata*, *Prorocentrum lima*, *Dinophysis* spp., *Gymnodinium catenatum*, *Alexandrium* spp.

Toxins Worked With
PSP, DSP, okadaic acid, DTX-1, DTX-2

Years of Experience with Harmful Algae/Biotoxins

Where Worked
Galician Rias (Northwest Spain)

Regional/International Program Participation
Community Reference Laboratory (European Union); IOC (UNESCO) Programme on HABs

Languages
Spanish, English, French, Portuguese

Citizenship
Spain

Miguez De Francisco, Aurea

Research scientist
Laboratorio Comunitario de
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Email:

Degrees
Pharmacist

General Expertise
Chemistry, toxicology, public health

Specialty
Analysis of PSP/DSP

Toxic/Noxious Organisms Worked With
Bivalves in general, *Prorocentrum lima*, *Dinophysis* spp., *Gymnodinium catenatum*, *Alexandrium* spp.

Toxins Worked With
PSP, DSP

Years of Experience with Harmful Algae/Biotoxins

Where Worked
N.W. Spain

Regional/International Program Participation
CRL, European Union; IOC Programme on HABs

Languages
Spanish, English, Portuguese

Citizenship
Spain

Norte, Manuel

Research scientist
Institute of Bioorganic Chemistry
Department of Organic Chemistry
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Tenerife, Canary Islands
Spain

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Email:

Degrees
Ph.D.

General Expertise
Chemistry

Specialty
Isolation and purification of marine toxins; chemical identification of marine toxins; artificial cultures of dinoflagellates; biosynthesis of toxins

Toxic/Noxious Organisms Worked With
Prorocentrum lima, *Alexandrium tamarense*, *Gymnodinium catenatum*, *Aphanizomenon flosaquae*, *Amphidinium* sp., *Heterosigma* sp.

Toxins Worked With
Saxitoxins, neosaxitoxin, okadaic acid, dinophysistoxin-1, esters of okadaic acid

Years of Experience with Harmful Algae/Biotoxins
11

Where Worked
Rhode Island, Spain

Regional/International Program Participation
BCR, Grupo de Trabajo Hispano-Portugués

Languages
Spanish, English

Citizenship
Spain

Novelli, Antonello

Associate professor
Department of Functional Biology
Division of Biochemistry
School of Medicine
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Email:

Degrees
Ph.D.

General Expertise
Toxicology, neurotoxicology

Specialty
Neurotoxic effect of domoic acid and okadaic acid in cultured cerebellar neurons

Toxic/Noxious Organisms Worked With

Toxins Worked With
Domoic and okadaic acids

Years of Experience with Harmful Algae/Biotoxins
6

Where Worked
Italy, United States, Spain

Regional/International Program Participation
Neurotoxicological bioassays for laboratories in various countries including Spain, Canada, and the United States

Languages
English

Citizenship
Italy

Spain

Pazos, Yolanda

Research scientist
Centro Galego de Control de Calidade
do Medio Mariño
Condicions Oceanográficas
e Fitoplancton
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Telex:
Fax: 34-86-512300
Email:

Degrees
M.Sc.

General Expertise
Biology, ecology, taxonomy, physiology,
monitoring

Specialty
Phytoplankton monitoring; general tax-
onomy and ecology; managing the effect
of toxic outbreaks

**Toxic/Noxious Organisms
Worked With**
Dinophysis spp., *Gymnodinium catenatum*,
Alexandrium spp., *Heterosigma akashiwo*,
Gyrodinium cf. *aureolum*, *Mesodinium
rubrum*

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**

Where Worked
Galician Rias, Bantry Bay (Ireland)

**Regional/International
Program Participation**
IOC-FAO Programme on Harmful Algal
Blooms; ICES Programme on the Popu-
lation Dynamics of HABs; Pilot Project IBE-
RIA; Monitoring of phytoplankton and en-
vironmental conditions on the Galician
coast (Consellería de Pesca, Autonomous
Government of Galicia, Spain)

Languages
Spanish, Galician, English, French

Citizenship
Spain

Perez, Fiz F.

Research scientist
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Degrees
Ph.D.

General Expertise
Chemistry

Specialty
Upwelling areas, nutrient cycles in estu-
arine environments

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**

Where Worked
Rias, Galician coast

**Regional/International
Program Participation**

Languages
English

Citizenship
Spain

Pérez-Camacho, Alejandro

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Degrees
Ph.D.

General Expertise
Biology, physiology, aquaculture

Specialty

**Toxic/Noxious Organisms
Worked With**
Mytilus edulis, *Ostrea edulis*, *Ruditapes
decussatus*, *R. philippinarum*, *Venerupis
pullastra*

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**

Where Worked
Spain

**Regional/International
Program Participation**

Languages
Spanish, French, English, Portuguese

Citizenship

Reguera, Beatriz

Research scientist
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Spain

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Email:

Degrees
M.Sc., Ph.D. (candidate)

General Expertise
Biology, ecology, taxonomy, physiology,
monitoring

Specialty
General taxonomy and ecology of phy-
toplankton; monitoring potentially harm-
ful species and their toxicity; flagellate
culture; growth and toxin production stud-
ies; dinoflagellate autoecology and eco-
physiology

**Toxic/Noxious Organisms
Worked With**
Gymnodinium catenatum, *Dinophysis*
spp., *Alexandrium* spp., blue mussels
(*Mytilus edulis*)

Toxins Worked With
Preparation of extracts for PSP toxin analy-
sis

**Years of Experience with
Harmful Algae/Biotoxins**
8

Where Worked
Cantabrian Sea, Atlantic coast of Iberian
Peninsula, Southern Bight of the North Sea

**Regional/International
Program Participation**
MAST II, CE: ICES Programme on the
Population Dynamics of HABs, Pilot
Project IBERIA; IOC-FAO Programme on
Harmful Algal Blooms

Languages
English, French, Spanish

Citizenship
Spain

Spain

Rios, Aida F.

Research scientist
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Degrees
Ph.D.

General Expertise
Biology, chemistry

Specialty
Upwelling areas; biochemical composi-
tion, ecology

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**

Where Worked
Rias, Galician coast

**Regional/International
Program Participation**

Languages
English, French

Citizenship
Spain

Rodriguez-Vazquez, Jose Antonio

Director
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Degrees
Ph.D.

General Expertise
Chemistry, toxicology

Specialty
Development and improvement of analyti-
cal methodology for PSP and DSP shell-
fish toxins

**Toxic/Noxious Organisms
Worked With**
Mussels, clams

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
7

Where Worked
Portugal, Spain, Ireland, The Netherlands,
Canada

**Regional/International
Program Participation**

Languages
Spanish, French, English

Citizenship
Spain

Spain

Ruiz Blanco, Carlos Santiago

National Association of Manufacturers
and Producers of Canned Fish
and Shellfish
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Spain

Telephone: 34- 986-224800
Telex:
Fax: 34- 986-434361
Email:

Degrees

Ph.D.

General Expertise

Chemistry, toxicology, aquaculture

Specialty
Bioassay method for PSP and DSP toxins; determination of okadaic acid by HPLC; DSP toxin stability; comparison between bioassay and HPLC methods for detection of DSP toxins

Toxic/Noxious Organisms Worked With

Dinophysis spp., bivalve molluscs

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

1

Where Worked

Spain, France

Regional/International Program Participation

Languages

English, French, Spanish

Citizenship

Spain

Varela, Manuel

Research scientist
Instituto Español de Oceanografía
Muelle de Animas s/n
15001 La Coruña
Spain

Telephone: 34- 81-205362
Telex:
Fax: 34- 81-229077
Email:

Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy

Specialty
Phytoplankton taxonomy and ecology; primary production

**Toxic/Noxious Organisms
Worked With**
Phytoplankton, dinoflagellates, diatoms, microflagellates

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked

N.W. Spain

Regional/International Program Participation

Languages

Spanish, English

Citizenship

Spain

Vieltes Baptista de Sousa, Juan Manuel

Director
Research and Development Department
National Association of Manufacturers
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Telephone: 34- 986-224800
Telex:
Fax: 34- 986-434361
Email:

Degrees

Ph.D.

General Expertise
Chemistry, toxicology, aquaculture, management

Specialty
Bioassay method for PSP and DSP toxins; determination of okadaic acid by HPLC; DSP toxin stability; comparison between bioassay and HPLC methods for detection of DSP toxins

Toxic/Noxious Organisms Worked With

Dinophysis spp., bivalve molluscs

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

14

Where Worked

Spain

Regional/International Program Participation

Languages

English, French, Spanish

Citizenship

Spain

Sri Lanka

Jayatissa, Loku Pulukkuttige

University lecturer/research scientist
Department of Botany
University of Ruhuna
Matara
Sri Lanka

Telephone: 941-41-2681
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Fax:
Email:

Degrees

B.Sc., M. Phil.

General Expertise

Biology, ecology, taxonomy, toxicology

Specialty

Ecotoxicological research on toxic *Microcystis aeruginosa*

Toxic/Noxious Organisms Worked With

Cyanobacteria, Cladoceran zooplankton

Toxins Worked With

Microcystin-LR

Years of Experience

3

Where Worked

United Kingdom

Regional/International Program Participation

SETAC, first world congress, 1993

Languages

English, Sinhalese

Citizenship

Sri Lanka

Sweden

Aneer, Gunnar

Official
Stockholm County
Administration Board
Department of Environment Protection
Box 22067
S-104 Stockholm
Sweden

Telephone: 46-8-785-5118
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Fax: 46-8-651-5750
Email:

Degrees

Ph.D., senior lecturer

General Expertise

Biology, ecology, fisheries

Specialty

Baltic fish stocks; *Nodularia spumigena*, HAB information service; public communications

Toxic/Noxious Organisms Worked With

Nodularia spumigena, Baltic fish stocks

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

2

Where Worked

Baltic Sea, Southwest Africa

Regional/International Program Participation

Information Office for the Baltic proper

Languages

Swedish, English, Portuguese

Citizenship

Sweden

Edebo, Lars B.

Chairman
Department of Clinical Bacteriology
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Sweden

Telephone: 46-31-604914
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Email:

Degrees

M.D.

General Expertise

Toxicology, medicine

Specialty

Diarrhetic shellfish toxins: analysis, toxicity, spread

Toxic/Noxious Organisms Worked With

Toxins Worked With

DSP

Years of Experience with Harmful Algae/Biotoxins

8

Where Worked

Swedish west coast, Norway, Denmark, Ireland

Regional/International Program Participation

Languages

Swedish, English, German, French

Citizenship

Sweden

Edler, Lars

Research scientist
Swedish Meteorological
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Sweden

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Degrees

Ph.D.

General Expertise

Biology, physics, ecology, taxonomy, physiology, public health, monitoring

Specialty

Marine eutrophication and its effects on primary productivity, algal blooms, and oxygen depletion; blooms of dinoflagellates, blue-greens, and *Chrysochromulina* in Swedish waters; DSP

Toxic/Noxious Organisms Worked With

Dinophysis

Toxins Worked With

DSP toxins

Years of Experience with Harmful Algae/Biotoxins

12

Where Worked

Baltic Sea, Kattegat, Skagerrak

Regional/International Program Participation

Baltic monitoring (HELCOM); Swedish Monitoring Programme

Languages

Swedish, English

Citizenship

Sweden

Granéli, Edna

Chairman
Department of Marine Ecology
Ecological Institute
University of Lund
Box 124
S-22100 Lund
Sweden

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Telex: 33533 LUNIVER S
Fax: 46-46-10-4003
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Degrees

Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Influence of macro- and micronutrients on algal species development and toxin production; effects of toxic algae on the food chain; mixotrophy in toxic algae

Toxic/Noxious Organisms Worked With

Alexandrium tamarense, *Prorocentrum* spp., *Dinophysis* spp., *Gyrodinium aureolum*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

15

Where Worked

Brazil, Scandinavia, Antarctic

Regional/International Program Participation

Swedish western Seas program; UNESCO-IOC HAB and PHAB (with SCOR); ICES

Languages

English, Portuguese, Spanish, Swedish, French

Citizenship

Brazil/Sweden

Sweden

Hageltorn, Matts

Assistant Professor
Department of Food Hygiene
Faculty of Veterinary Medicine
Swedish University
of Agricultural Sciences
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matts.hageltorn@lmhyg.slu.se

Degrees

D.V.M., Ph.D., Docent

General Expertise

Toxicology, public health, veterinary medicine

Specialty

The handling and care of experimental animals; evaluation and quantification of various phycotoxins (and other toxins) in bioassays; chemical determination of DSP, some experience with ASP

Toxic/Noxious Organisms Worked With

Shellfish

Toxins Worked With

Diarrhetic, paralytic and amnesic shellfish toxins

Years of Experience with Harmful Algae/Biotoxins

7

Where Worked

Swedish West Coast, Baja California (Mexico)

Regional/International Program Participation

ICES WG on Phytoplankton and Management of Their Effects

Languages

Swedish, English, German

Citizenship

Sweden

Hu, Yao-Juan

Engineer
Department of Clinical Bacteriology
University of Göteborg
Guldhedsgatan 10
S-413 46- Göteborg
Sweden

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Telex:
Fax: 46-31-82-3601
Email:

Degrees

M.S.

General Expertise

Chemistry, toxicology

Specialty

Monitoring OA, DTX-I and PSP in mussels growing along the Swedish west coast

Toxic/Noxious Organisms Worked With

Toxins Worked With

OA, DTX-I, and PSP in mussels

Years of Experience with Harmful Algae/Biotoxins

7

Where Worked

Swedish west coast

Regional/International Program Participation

Languages

English

Citizenship

China

Sweden

Li, Xiang-Peng

Professor
Department of Clinical Bacteriology
University of Göteborg
Guldhedsgatan 10
S-413 46 Göteborg
Sweden

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Email:

Degrees
M.S.

General Expertise
Chemistry, toxicology

Specialty
Monitoring OA, DTX-I and PSP in mussels growing along the Swedish west coast

Toxic/Noxious Organisms Worked With

Toxins Worked With
OA, DTX-I, and PSP in mussels

Years of Experience with Harmful Algae/Biotoxins
7

Where Worked
Swedish west coast

Regional/International Program Participation

Languages
English

Citizenship
Sweden

Lindahl, Odd

Research and monitoring scientist
Kristineberg Marine Research Station
S-450 34 Fiskebäckskil
Sweden

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Degrees
Ph.D.

General Expertise
Biology, chemistry, physics, ecology, taxonomy

Specialty
Biological oceanography; algal bloom formation processes in the coastal current area and the advection of offshore blooms into the coastal area of western Sweden

Toxic/Noxious Organisms Worked With
Gyrodinium aureolum, *Dinophysis* spp., *Chrysochromulina polylepis*, *Ceratium* spp.

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
15

Where Worked
Skagerrak and coast of Sweden

Regional/International Program Participation
ICES WG and IOC WG

Languages
Swedish, English

Citizenship
Sweden

Mattsson, Roland

Laboratory engineer
Bacteriology Department
The National Veterinary Institute (SVA)
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S-750 07 Uppsala
Sweden

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Telex:
Fax: 46-18-30-9162
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Degrees
Laboratory engineer

General Expertise
Toxicology, fisheries, aquaculture, veterinary medicine

Specialty
Algal blooms in Swedish inland waters and the Baltic Sea; mouse bioassay and HPLC

Toxic/Noxious Organisms Worked With
Microcystis sp., *Anabaena* sp., *Alphanizomenon* sp., *Nodularia*

Toxins Worked With
Microcystin, anatoxin, nodularin

Years of Experience with Harmful Algae/Biotoxins
10

Where Worked
Scandinavia

Regional/International Program Participation
Scandinavian cooperative program

Languages
Swedish, English

Citizenship
Sweden

Sweden

Nilsson, Claes

Ph.D. student
Department of Marine Botany
University of Göteborg
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Sweden

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claes.nilsson@marbot.gu.se

Degrees
B.Sc.

General Expertise
Biology, ecology

Specialty
Identification and ecology of toxic algae

Toxic/Noxious Organisms Worked With
Dinoflagellates

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
4

Where Worked
Sweden

Regional/International Program Participation

Languages
Swedish, English

Citizenship
Sweden

Pettersson, Rolf Patrik

Graduate student
Environmental Physics
Department of Physics
Chalmers University of Technology
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Sweden

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Degrees
M.Sc.

General Expertise
Physics

Specialty
Measuring trace elements in algal communities in cooperation with biologists and ecotoxicologists

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
1

Where Worked
Sweden

Regional/International Program Participation

Languages
Swedish, German, English, Swahili

Citizenship
Sweden

Sweden

Annadotter, Heléne

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Institute of Ecology
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helene.annadotter@limnol.lu.se

Degrees

M.Sc.

General Expertise

Ecology, management

Specialty

Experience of water-borne outbreaks;
lake restoration of cyanobacteria-
dominating lakes; research on algal
toxins and drinking water treatment;
ecology of toxic cyanobacteria

Toxic/Noxious Organisms Worked With

Microcystis spp., *Oscillatoria* spp.

Toxins Worked With

Microcystins

Years of Experience with Toxic Algae/Biotoxins

6

Where Worked

Scandinavia

Regional/International Program Participation

Swedish Environmental Protection
Board; effects of toxic cyanobacteria on
zooplankton

Languages

English

Citizenship

Sweden

Switzerland

Hanselmann, Kurt W.

Research scientist
University of Zurich
Institute of Plant Biology
Department of Microbiology
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Degrees

Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Reactions of Cyanobacteria toward environmental stress in alpine aquatic ecosystems; production of toxins as a consequence of irradiation, nutrient limitation, and temperature fluctuations

Toxic/Noxious Organisms Worked With

Cynobacteria of different genera

Toxins Worked With

Microtoxins and other heptotoxins

Years of Experience

2

Where Worked

Alpine environments

Regional/International Program Participation

Effect of climatic changes on biological systems (national priority program)

Languages

English, German, French

Citizenship

Switzerland

Preisig, Hans R.

Lecturer
Institute of Systematic Biology
University of Zurich
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CH-8008 Zurich
Switzerland

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Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy, ultrastructure

Specialty

Microalgal/cyanobacterial taxonomy and ecology (especially freshwater); toxic cyanobacteria

Toxic/Noxious Organisms Worked With

Cyanobacteria

Toxins Worked With

Years of Experience

2

Where Worked

Switzerland, England, New Zealand

Regional/International Program Participation

Swiss National Scientific Research Program

Languages

English, French

Citizenship

Switzerland

Thailand

Boonyapiwat, Sopana

Research scientist
Oceanic Fisheries Division
Department of Fisheries
Ministry of Agriculture
and Cooperatives
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Samutprakarn 12070
Thailand

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Email:

Degrees

M.Sc.

General Expertise

Ecology, taxonomy, fisheries

Specialty

Phytoplankton ecology and red tides in relation to fisheries in the Gulf of Thailand and the Andaman Sea

Toxic/Noxious Organisms

Worked With
Alexandrium spp.

Toxins Worked With

PSP

Years of Experience with

Harmful Algae/Biotoxins
15

Where Worked

South China Sea, Gulf of Thailand, Indian Ocean

Regional/International Program Participation

Languages

Thai, English, German

Citizenship

Thailand

Jarltkuan, Somtawin

Instructor
Department of Aquatic Science
Burapha University
Bangsaen, Chonburi 20131
Thailand

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Email:

Degrees

M.Sc.

General Expertise

Biology, ecology, taxonomy, toxicology, aquaculture

Specialty

Abundance and distribution of phytoplankton along the eastern coast of the Gulf of Thailand; laboratory culture and study of dinoflagellates

Toxic/Noxious Organisms Worked With

Noctiluca scintillans, *Alexandrium cohorticula*

Toxins Worked With

Years of Experience with

Harmful Algae/Biotoxins
2

Where Worked

Gulf of Thailand

Regional/International Program Participation

Languages

Thai

Citizenship

Thailand

Lirdwitayaprasit, Thalthaworn

Marine fisheries biologist
Marine Fisheries Division
Department of Fisheries
Phahonyothin Road, Kasetsart Campus
Chatuchak, Bangkok 10900
Thailand

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Email:

Degrees

Ph.D.

General Expertise

Biology, ecology

Specialty

Mechanisms of HABs in shrimp farms; culture of harmful species; laboratory studies on life history, bioassays; red tide management

Toxic/Noxious Organisms Worked With

Noctiluca, *Trichodesmium*, *Chattonella*, *Heterosigma*

Toxins Worked With

PSP

Years of Experience with

Harmful Algae/Biotoxins

Where Worked

Seto Inland Sea, Japan; Gulf of Thailand

Regional/International Program Participation

IOC-FAO Intergovernmental Panel on HABs; WESTPAC-HAB; ASEAN-Canada Cooperative Programme on Marine Sciences, Phase II (Red Tide)

Languages

Thai, English

Citizenship

Thailand

Pholpunthin, Pornslip

Research scientist
Department of Biology
Faculty of Science
Prince of Songkla University
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Thailand

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Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy.

Specialty

Ecology of marine phytoplankton, especially dinoflagellates; taxonomy and distribution of dinoflagellates

Toxic/Noxious Organisms Worked With

Alexandrium

Toxins Worked With

PSP

Years of Experience with

Harmful Algae/Biotoxins
8

Where Worked

Gulf of Thailand, Japan

Regional/International Program Participation

First WESPAC International Workshop on Taxonomy of Toxic Algae, Chulalongkorn University, Thailand

Languages

Thai, English

Citizenship

Thailand

Thailand

Suvapepun, Sunee

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Degrees

B.Sc.

General Expertise

Ecology, taxonomy, fisheries

Specialty

Red tide monitoring survey; causative organisms; *Trichodesmium* and *Noctiluca* blooms and their effect

Toxic/Noxious Organisms Worked With

Trichodesmium erythraeum, *Noctiluca scintillans*

Toxins Worked With

Years of Experience with

Harmful Algae/Biotoxins
12

Where Worked

Gulf of Thailand

Regional/International Program Participation

ASEAN-Canada Cooperative Programme on Marine Science, Phase 2

Languages

Thai, English

Citizenship

Thailand

Wisessang, Suchana

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66-251-1951

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Degrees

M.Sc.

General Expertise

Biology, ecology, physiology, aquaculture

Specialty

Monoclonal culture of unicellular algae, particularly dinoflagellates and diatoms that can cause HABs

Toxic/Noxious Organisms Worked With

Alexandrium cohorticula, *A. tamarense*, *A. minutum*, *Chattonella*, *Perna viridis*

Toxins Worked With

Gonyautoxin

Years of Experience with

Harmful Algae/Biotoxins
8

Where Worked

Gulf of Thailand, Andaman Sea

Regional/International Program Participation

Languages

Thai, English

Citizenship

Thailand

Thailand

Piumsomboon, Ajcharaporn

Lecturer, Instructor
Department of Marine Science
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Bangkok 10330
Thailand

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fsciaud@chulkn.car.chula.ac.th

Degrees

Ph.D.

General Expertise

Biology, ecology, culturing

Specialty

Background and experience:
phytoplankton culturing, effect of
phytoplankton on biogeochemical
cycle of iodine, phytoplankton ecology

Toxic/Noxious Organisms

Worked With

Toxins Worked With

Years of Experience with

Toxic Algae/Biotoxins

1

Where Worked

Southeast Asian, Gulf of Thailand

Regional/International

Program Participation

WESTPAC

Languages

Thai, English

Citizenship

Thailand

Tunisia

Hamza, Asma

Research scientist
Institut National Scientifique et
Technique d'Océanographie
et de Pêches
3029 SFAX
Tunisia

Telephone: (04) 220117
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Degrees
Ingenieur

General Expertise
Ecology, taxonomy

Specialty
Survey of red tides in the south of Tunisia; green macro-algal eutrophication along the Sfax coast

Toxic/Noxious Organisms Worked With
Oscillatoria sp. *Gymnodinium* sp.

Toxins Worked With

Years of Experience
5

Where Worked
Gabès Gulf (south of Tunisia)

Regional/International Program Participation

Languages
French, English

Citizenship

Turkey

Büyükisik, Baha

Research scientist
Ege University
Fisheries Faculty
Department of Hydrobiology
P.K. 61 Izmir 35100
Turkey

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Fax: (232) 388-3685

Degrees
Ph.D.

General Expertise
Biology, chemistry, ecology

Specialty
Growth kinetics and nutrient limitations of *Nitzschia pungens*, *Prorocentrum micans*, *Noctiluca scintillans* and other non-toxic species; biological processes required for ecological modeling of Izmir Bay

Toxic/Noxious Organisms Worked With
Alexandrium minutum, *Nitzschia pungens*, *Noctiluca scintillans*, *Prorocentrum micans*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
10

Where Worked
Aegean Sea, Mediterranean Sea

Regional/International Program Participation

Languages
English, Turkish

Citizenship
Turkey

Koray, Tufan

Research scientist
Ege University
Fisheries Faculty
Department of Oceanography
and Limnology
P.K. 24 Izmir 35102
Turkey

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Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy, public health

Specialty
Microplankton taxonomy and community structure analyses (ecometry); ecology and nutrient dynamics during blooms

Toxic/Noxious Organisms Worked With
Alexandrium spp., *Gonyaulax* spp., *Prorocentrum* sp., *Dinophysis* spp.

Toxins Worked With
PSP

Years of Experience with Harmful Algae/Biotoxins
13

Where Worked
Aegean Sea, Sea of Marmara

Regional/International Program Participation
Modeling of HABs, toxin determinations, new taxonomics revisions and techniques

Languages
English

Citizenship
Turkey

United Kingdom

Baird, Donald John

Research scientist
Institute of Aquaculture
University of Stirling
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United Kingdom

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Degrees

Ph.D., B.Sc.

General Expertise

Ecology, toxicology, aquaculture

Specialty

Algal toxins and their effects on freshwater food chains; toxins as anti-grazing compounds; toxic algae as a food source for freshwater fishes

Toxic/Noxious Organisms Worked With

Microcystis, *Daphnia*, *Oreochromis*

Toxins Worked With

Microcystin-LR

Years of Experience with Harmful Algae/Biotoxins

3

Where Worked

Australia, Asia, Europe

Regional/International Program Participation

Languages

French, Spanish, Portuguese

Citizenship

United Kingdom

Beveridge, Malcolm Charles M.

Senior lecturer
Institute of Aquaculture
University of Stirling
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Scotland
United Kingdom

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Degrees

B.Sc., Ph.D.

General Expertise

Biology, ecology, fisheries, aquaculture, management

Specialty

Effects of cyanobacterial toxins on grazing by fish and *Daphnia*; implications for aquaculture and food web function and structure

Toxic/Noxious Organisms Worked With

Microcystis, other cyanobacteria; tilapia, carps, salmonids, *Daphnia*

Toxins Worked With

Microcystins

Years of Experience with Harmful Algae/Biotoxins

5

Where Worked

United Kingdom, Southeast Asia

Regional/International Program Participation

Languages

English, Spanish, French

Citizenship

United Kingdom

Boalch, Gerald T.

Research scientist
Marine Biological Association
of the U.K.
The Laboratory
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Plymouth, Devon PL12PB
England
United Kingdom

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Email:

Degrees

B.Sc., Ph.D., F.I. Biol.

General Expertise

Ecology, taxonomy

Specialty

Effects of toxic dinoflagellates in the English Channel

Toxic/Noxious Organisms Worked With

Phytoplankton of the northeastern Atlantic Ocean

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

30

Where Worked

Northeastern Atlantic

Regional/International Program Participation

Languages

English, French

Citizenship

United Kingdom

Chan, Daniel K.O.

Professor and department head
Department of Zoology
University of Hong Kong
Hong Kong

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Email:

Degrees

M.Sc., Ph.D.

General Expertise

Biology, chemistry, physiology, toxicology, fisheries

Specialty

Screening for red tide toxins in shellfish, fish and water samples; chromatographic separation and toxicity tests for marine toxins; sublethal effects of marine toxins in marine fishes (cardiovascular, respiratory functions)

Toxic/Noxious Organisms Worked With

Locally available edible shellfish, puffer fish species

Toxins Worked With

Paralytic shellfish toxins, tetrodotoxin, diarrhetic shellfish toxins

Years of Experience with Harmful Algae/Biotoxins

10

Where Worked

Hong Kong, South China Sea

Regional/International Program Participation

Languages

English

Citizenship

United Kingdom

Codd, Geoffrey A.

Professor
Department of Biological Sciences
University of Dundee
Dundee DD1 4HN
Scotland
United Kingdom

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Email:

Degrees

B. Tech., Ph.D.

General Expertise

Biology, chemistry, ecology, toxicology, aquaculture, public health, management

Specialty

Prediction, production, and toxicity of cyanobacterial blooms in more than 100 British water bodies; toxin detection, assays, localization, removal; formulation of control and management actions

Toxic/Noxious Organisms Worked With

Microcystis, *Anabaena*, *Nodularia*, *Oscillatoria*, *Aphanizomenon*, *Trichodesmium*, toxins in freshwater fish, *Prymnesium*

Toxins Worked With

Microcystins, anatoxin, saxitoxin, nodularin, prymnesin

Years of Experience with Harmful Algae/Biotoxins

13, freshwater; 5 marine

Where Worked

U.K., Sweden, Ireland, Australia, South Africa, Malaysia, Germany, Norway, Caribbean, Russia

Regional/International Program Participation

National Rivers Authority Programme

Languages

German, English

Citizenship

United Kingdom

Dodge, John D.

Professor
Department of Biology
Royal Holloway, University of London
Egham Hill, Egham, Surrey
England TW20 OEX
United Kingdom

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Telex:
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Email:

Degrees

B.Sc., Ph.D., D.Sc.

General Expertise

Biology, ecology, taxonomy

Specialty

Taxonomy, ecology, distribution, life-cycles and ultrastructure of dinoflagellates; computerized databases for dinoflagellates and other harmful algae around the British Isles

Toxic/Noxious Organisms Worked With

Dinoflagellates

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

25

Where Worked

Seas around the U.K., North Atlantic

Regional/International Program Participation

European marine dinoflagellate network

Languages

English, French

Citizenship

United Kingdom

United Kingdom

Flynn, Kevin John

Senior lecturer
Algal Research Unit
School of Biological Sciences
University of Wales
Swansea SA2 8PP
Wales
United Kingdom

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Email:

Degrees
B.Sc., Ph.D.

General Expertise
Biology, physiology

Specialty
Ecophysiology of microalgae, particularly with respect to carbon-nitrogen-phosphorus physiology and link to toxicity and growth

Toxic/Noxious Organisms Worked With
Alexandrium minutum, *Gymnodinium catenatum*, *Heterosigma akashiwo*

Toxins Worked With
PSP

Years of Experience with Harmful Algae/Biotoxins
12

Where Worked
Europe

Regional/International Program Participation

Languages
English, Spanish, French, German

Citizenship
United Kingdom

Gallacher, Susan

Research scientist
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Scotland
United Kingdom

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Fax: 0224-295511
Email:

Degrees
B.Sc., Ph.D.

General Expertise
Microbiology

Specialty
Bacterial production of sodium channel blocking toxins (e.g., paralytic shellfish toxins)

Toxic/Noxious Organisms Worked With

Toxins Worked With
Paralytic shellfish toxins

Years of Experience with Harmful Algae/Biotoxins
6

Where Worked
Scotland

Regional/International Program Participation
British fisheries research

Languages
English

Citizenship
United Kingdom

Gooday, Graham W.

Research scientist
Department of Molecular and Cell Biology
Marischal College
University of Aberdeen
Aberdeen AB9 1AS
Scotland
United Kingdom

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Email:

Degrees
B.Sc., Ph.D.

General Expertise
Biology

Specialty
Physiology of *Prymnesium parvum*

Toxic/Noxious Organisms Worked With
Prymnesium parvum

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
12

Where Worked
United Kingdom

Regional/International Program Participation

Languages
English

Citizenship
United Kingdom

Heaney, Stephen Dennis

Research scientist
Scottish Office Agriculture and Fisheries
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United Kingdom

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Degrees
HNC, biological studies

General Expertise
Biology, ecology, taxonomy, aquaculture

Specialty
Identification of harmful algae in Scottish waters and benthic communities

Toxic/Noxious Organisms Worked With
Alexandrium spp.

Toxins Worked With
Alexandrium spp.

Years of Experience with Harmful Algae/Biotoxins
2

Where Worked
Scotland

Regional/International Program Participation

Languages
English

Citizenship
United Kingdom

United Kingdom

Ho, Kin-Chung

Environmental protection officer
School of Science and Technology
The Open Learning Institute
of Hong Kong
700 Nathan Road, Mongkok
Kowloon
Hong Kong

Telephone: 852-789-6863
Telex:
Fax: 852-789-1170
Email:

Degrees
B.Sc., M.Sc., Ph.D. (candidate)

General Expertise
Biology, ecology, toxicology

Specialty
Red tides and their relationship to water quality and eutrophication; ecological dynamics of red tides in subtropical waters; mechanisms of formation of red tides; management of red tides

Toxic/Noxious Organisms Worked With
Prorocentrum spp., *Protoperidinium* spp., *Noctiluca scintillans*; *Mesodinium rubrum*; *Gymnodinium* spp.; *Ceratium furca*

Toxins Worked With
Paralytic shellfish toxins

Years of Experience with Harmful Algae/Biotoxins
7

Where Worked
Subtropical waters

Regional/International Program Participation

Languages
Chinese, English

Citizenship
Hong Kong

Hodgkiss, Ivor John

Senior lecturer
Department of Botany
The University of Hong Kong
Pokfulam Road
Hong Kong

Telephone: 852-5-859-2819
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Fax: 852-5-858-3477
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Degrees
B.Sc., Ph.D.

General Expertise
Biology, ecology, fisheries

Specialty
Non-toxic effects of red tides such as deoxygenation and subsequent kills of fish stocks; reduction of amenity value of beaches by red tide deposits

Toxic/Noxious Organisms Worked With
Noctiluca scintillans, *Gymnodinium* sp., *Prorocentrum* spp., *Microcystis* spp.

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
13

Where Worked
Hong Kong, South China Sea

Regional/International Program Participation

Languages
English

Citizenship
United Kingdom

United Kingdom

Holligan, Patrick M.

Research scientist
Plymouth Marine Laboratory
West Hoe, Plymouth PL1 3DH
England
United Kingdom

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Fax: 44-752-670637
Email: OMNET: p.holligan

Degrees
B.A., Ph.D.

General Expertise
Ecology

Specialty
Ecological studies of algal blooms in shelf seas, with particular interest in dinoflagellate blooms associated with frontal systems

Toxic/Noxious Organisms Worked With
Gyrodinium sp., *Protogonyaulax* sp.

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
15

Where Worked
Northeast and Northwest Atlantic

Regional/International Program Participation

Languages
English, written French and Spanish

Citizenship
United Kingdom

Jones, Kenneth John

Research scientist
Natural Environment Research Council
Dunstaffnage Marine Laboratory
P.O. Box 3
Oban, Argyll PA34 4AD
Scotland
United Kingdom

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Telex: 776216 MARLAB G
Fax: 44-631-65518
Email: U.K. JANET NETWORK:
uk.ac.dml:kj

Degrees
B.Sc., Ph.D.

General Expertise
Biology, ecology, aquaculture, biological oceanography

Specialty
Biological oceanography of harmful algal blooms in coastal regions: fjordic sea lochs and rias in northern Spain and Ireland; impact of blooms on salmon and shellfish mariculture activities

Toxic/Noxious Organisms Worked With
Gyrodinium aureolum, *Alexandrium* spp.

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
14

Where Worked
Ireland, Spain, Scotland

Regional/International Program Participation
Member of IOC/FAO Intergovernmental Panel on Harmful Algal Blooms

Languages
English, some French

Citizenship
United Kingdom

Lawton, Linda Ann

Lecturer
School of Applied Sciences
Robert Gordon University
St. Andrews
Aberdeen AB1 1H9
Scotland
United Kingdom

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Telex:
Fax: 44-224-262828
Email:

Degrees
B.Sc., Ph.D.

General Expertise
Biology

Specialty
Microcystins, including their characterization, analysis in environmental samples and studies on their fate and behavior in aquatic systems

Toxic/Noxious Organisms Worked With
Microcystis, *Anabaena*, and *Oscillatoria*

Toxins Worked With
Microcystins

Years of Experience with Harmful Algae/Biotoxins
7

Where Worked
United Kingdom

Regional/International Program Participation
Department of Environment Standing Committee of Analysts, Toxins Panel

Languages
English

Citizenship
United Kingdom

United Kingdom

Lewis, Jane Mary

Senior lecturer
School of Biological
and Health Sciences
University of Westminster
115 New Cavendish St.
London W1M 8JS
England
United Kingdom

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Telex:
Fax: 44-71-911-5087
Email:

Degrees
B.Sc., Ph.D.

General Expertise
Biology, ecology, taxonomy

Specialty
Dinoflagellate ecology and taxonomy in UK waters; dinoflagellate cysts

Toxic/Noxious Organisms Worked With
Alexandrium, other dinoflagellates

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
13

Where Worked
United Kingdom

Regional/International Program Participation
MAFF investigations into PSP/DSP in the United Kingdom

Languages
English, French

Citizenship
United Kingdom

Lucas, Ian A.N.

Senior lecturer
School of Ocean Sciences
University of Wales, Bangor
Marine Science Laboratories
Menai Bridge, Gwynedd LL59 5EY
Wales
United Kingdom

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Fax: 0248-716367
Email: telemail ucnw.ocean

Degrees
B.Sc., Ph.D.

General Expertise
Biology, taxonomy, aquaculture

Specialty
Taxonomy and ultrastructure of microalgae responsible for toxicity

Toxic/Noxious Organisms Worked With
Dinophyceae, bivalvia

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
9

Where Worked
Northern Europe, Australia, Hong Kong, Indian Ocean

Regional/International Program Participation

Languages
French, German

Citizenship
United Kingdom

MacDonald, Elspeth (Mary)

Scientific officer
Agriculture and Fisheries Department
SOAFD Marine Laboratory
PO Box 101
Aberdeen AB9 8DB
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United Kingdom

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Telex:
Fax: 44-224-295511
Email:

Degrees
B.Sc., M.Sc.

General Expertise
Biology, ecology, taxonomy, fisheries, aquaculture

Specialty
Ecology of harmful phytoplankton; national PSP monitoring programs

Toxic/Noxious Organisms Worked With
Alexandrium tamarense, *Dinophysis* spp., *Chaetoceros* spp.

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
4

Where Worked
Scotland

Regional/International Program Participation
Scottish PSP and DSP Monitoring Programmes; ICES/IOC HAB WG

Languages
English, French

Citizenship
United Kingdom

United Kingdom

MacKintosh, Carol

Research fellow
MRC Protein Phosphorylation Unit
Department of Biochemistry
University of Dundee
Dundee DD1 4HN
Scotland
United Kingdom

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Email:

Degrees
B.Sc., Ph.D.

General Expertise
Biology, chemistry, physiology, toxicology

Specialty
Microcystins, nodularins, and okadaic acid as inhibitors of protein phosphatases 1 and 2A; detection and quantification of these toxins using protein phosphatase inhibition assay

Toxic/Noxious Organisms Worked With

Toxins Worked With
Microcystins, nodularins, okadaic acid

Years of Experience with Harmful Algae/Biotoxins
4

Where Worked
United Kingdom

Regional/International Program Participation
Standing Committee of Analysts Toxins Panel, Department of the Environment, United Kingdom

Languages
English

Citizenship
United Kingdom

Park, Richard Anthony

Marine scientist
Forth River Purification Board (FRPB)
Clearwater House, Heriot Watt
Research Park
Avenue North, Riccarton
Edinburgh EH14 4AP
Scotland
United Kingdom

Telephone: 44-31-449-7296
Telex:
Fax: 44-31-449-7277
Email:

Degrees
B.Sc., Ph.D.

General Expertise
Biology, ecology, taxonomy

Specialty
Monitoring phytoplankton and nutrients in the Firth of Forth, Scotland, including detailed analysis of seasonal/spatial distribution patterns in relation to major nutrient sources (discharges); monitoring for presence of toxic species/blooms, evidence of eutrophication

Toxic/Noxious Organisms Worked With
Dinoflagellate species (also diatoms, non-toxic)

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
3 years toxic, 5 years phytoplankton in general

Where Worked
Scotland's east and west coasts, North Wales

Regional/International Program Participation
FRPB regional monitoring program (annually, March-October), statutory monitoring of tidal waters for designation of local coastal areas as sensitive/less sensitive to eutrophication in accordance with urban waste waters treatment directive.

Languages
English

Citizenship
United Kingdom

Wong, Pat-Shun (Patsy)

Senior fisheries officer
Agriculture and Fisheries Department
Canton Road Government Office
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Kowloon
Hong Kong

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Fax: 852-31133731
Email:

Degrees
B.Sc., M. Phil., Ph.D.

General Expertise
Biology, toxicology, fisheries

Specialty
Red tide occurrences and their impact on fisheries and aquaculture in Hong Kong; management strategies to overcome problems caused by toxic algal blooms and red tides

Toxic/Noxious Organisms Worked With
Gymnodinium nagasakiense, *Alexandrium catenella*, *Alexandrium excavatum*, *Mytilus edulis*

Toxins Worked With
Paralytic shellfish toxins

Years of Experience with Harmful Algae/Biotoxins
9

Where Worked
South China Sea

Regional/International Program Participation

Languages
Chinese, English

Citizenship
Hong Kong

United States

Andersen, Robert A.

Director
Provasoli-Guillard Center for Culture
of Marine Phytoplankton
Bigelow Laboratory for Ocean Sciences
McKown Point
West Boothbay Harbor, ME 04575
United States

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Fax: 207-633-9632
Email: potter@maine.maine.edu

Degrees

B.S., M.A., Ph.D.

General Expertise

Biology, taxonomy, algal culture

Specialty

Culture of toxic phytoplankton

Toxic/Noxious Organisms Worked With

Alexandrium, *Dinophysis*, *Prorocentrum*,
Heterosigma

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

5

Where Worked

North America

Regional/International Program Participation

Languages

English

Citizenship

United States

Anderson, Donald Mark

Senior scientist
Redfield 332/MS#32
Woods Hole Oceanographic Institution
Woods Hole, MA 02543
United States

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Telex: 951679
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danderson@whoi.edu

Degrees

B.S., M.S., Ph.D.

General Expertise

Biology, ecology, genetics, physiology,
toxicology

Specialty

General bloom ecology, hydrodynamics,
advection; saxitoxin measurements; di-
noflagellate physiology; cyst collection,
enumeration, identification; molecular
probes for harmful species; molecular bi-
ology; biogeography of *Alexandrium* spe-
cies; global aspects of toxic red tides

Toxic/Noxious Organisms Worked With

Alexandrium spp., *Pyrodinium baha-
mense*, *Gymnodinium catenatum*

Toxins Worked With

Saxitoxins (all)

Years of Experience with Harmful Algae/Biotoxins

20

Where Worked

United States, Spain, China, Southeast
Asia, Sweden, South America

Regional/International Program Participation

National Ad Hoc Interagency Task Force
on HABs; NOAA/NSF Science and Com-
munication Center; SCOR/IOC Working
Group on Physiological Ecology of HABs;
IOC/FAO Intergovernmental Panel on
HABs; ICES Working Group on Bloom
Dynamics of HABs

Languages

English, French

Citizenship

United States

Balch, William M.

Associate professor
Department of Marine Biology
and Fisheries
Rosenstiel School for Marine
and Atmospheric Science
University of Miami
4600 Rickenbacker Causeway
Miami, FL 33149-1098
United States

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Telex:
Fax: 305-361-4600
Email:

Degrees

B.A., Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Factors affecting bloom formation

Toxic/Noxious Organisms Worked With

Protogonyaulax (Alexandrium) tamarensis

Toxins Worked With

Paralytic shellfish toxins

Years of Experience with Harmful Algae/Biotoxins

18

Where Worked

Northeast U.S., southeast U.S., southern
England

Regional/International Program Participation

Languages

English, Spanish

Citizenship

United States

Bean, Laurie L.

Research scientist
Department of Marine Resources
PO Box 8
West Boothbay Harbor, ME 04575
United States

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Telex:
Fax: 207-633-9579
Email:

Degrees

General Expertise

Biology, toxicology, fisheries, public
health, pathology

Specialty

Supervision of field personnel in the col-
lection and bioassay of samples collected
along Maine's coast to monitor for PSP

Toxic/Noxious Organisms Worked With

Alexandrium tamarensis in *Mva edulis*,
Mytilus arenaria, *Modiolus modiolus*,
Arctica islandica, *Spisula solidissima*,
Ostrea edulis

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

3

Where Worked

Maine

Regional/International Program Participation

NSSP

Languages

English, Spanish

Citizenship

United States

United States

Beltrami, Edward

Professor
Department of Applied Mathematics
and Statistics
Marine Sciences Research Center
State University of New York
at Stony Brook
Stony Brook, NY 11794
United States

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Fax: 516-632-8490
Email: beltrami@ams.sunysb.edu

Degrees

Ph.D.

General Expertise

Mathematics

Specialty

Time-series and data analysis of plankton
dynamics and modeling of bloom behav-
ior

Toxic/Noxious Organisms Worked With

Aureococcus anophagefferens, *Noctiluca
scintillans*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

5

Where Worked

United States

Regional/International Program Participation

International conferences on toxic algal
phytoplankton blooms (Newport, Nantes)

Languages

English, Italian

Citizenship

United States

Bignami, Gary

Research scientist
Hawaii Biotechnology Group, Inc.
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Aiea, HI 96701
United States

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Telex:
Fax: 808-486-5020
Email:

Degrees

B.A., M.S.

General Expertise

Toxicology, immunochemistry, mono-
clonal antibodies, immunoassay

Specialty

Development of monoclonal antibodies to
low molecular weight toxins, including
algal products

Toxic/Noxious Organisms Worked With

Toxins Worked With

Domoic acid, palytoxin, tetrodotoxin,
maitotoxin

Years of Experience with Harmful Algae/Biotoxins

10

Where Worked

Hawaii

Regional/International Program Participation

Languages

English, Spanish

Citizenship

United States

United States

Blogoslawski, Walter J.

Aquaculture coordinator
NOAA/NMFS
Northeast Fisheries Science Center
212 Rogers Avenue
Milford, CT 06460
United States

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Email:

Degrees
Ph.D.

General Expertise
Biology, aquaculture, public health

Specialty
Detoxification of shellfish using ozone gas; commercial shellfish and finfish aquaculture technology for industries in the Northeastern United States

Toxic/Noxious Organisms Worked With
Crassostrea virginica, *Mercenaria mercenaria*, *Mya arenaria*

Toxins Worked With
Gonyaulax and *Gymnodinium* toxins

Years of Experience with Harmful Algae/Biotoxins
15

Where Worked
Mexico, Alaska, Canada, Southeast and Northeast United States

Regional/International Program Participation
Former Drug from the Seas Meetings; International Algal Red Tide Meetings

Languages
English, French

Citizenship
United States

Boyer, Gregory L.

Assistant professor
Department of Chemistry
College of Environmental Science and Forestry
State University of New York
Syracuse, NY 13210
United States

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Degrees
Ph.D.

General Expertise
Chemistry, physiology

Specialty
Toxin chemistry for saxitoxin and related compounds; analytical methods for toxin determination

Toxic/Noxious Organisms Worked With
Alexandrium spp., *Aphanizomenon flos-aquae*

Toxins Worked With
Saxitoxin and related compounds

Years of Experience with Harmful Algae/Biotoxins
12

Where Worked
North America

Regional/International Program Participation

Languages
English

Citizenship
United States

Brand, Larry Edward

Professor
Marine Biology and Fisheries
Rosenstiel School of Marine and Atmospheric Science
University of Miami
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Miami, FL 33149
United States

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Fax: 305-361-4600
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Degrees
Ph.D.

General Expertise
Biology, chemistry, ecology, genetics, physiology

Specialty
Culturing of harmful algae and research on their physiological ecology

Toxic/Noxious Organisms Worked With
Alexandrium spp., *Gambierdiscus* spp., *Prorocentrum* spp., *Amphidinium* spp., *Gymnodinium* spp.

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
15

Where Worked
North Atlantic, Gulf of Mexico, Caribbean, Mediterranean, Black Sea

Regional/International Program Participation

Languages
English

Citizenship
United States

United States

Bricelj, Vera Monica

Associate professor
Marine Sciences Research Center
State University of New York
at Stony Brook
Stony Brook, NY 11794-5000
United States

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Telex:
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Email:

Degrees
Licenciatura, M.S., Ph.D.

General Expertise
Biology, ecology, physiology, fisheries, aquaculture

Specialty
Effects of harmful algae on physiology of marine bivalves; accumulation-depuration of PSP toxins in commercially exploited shellfish

Toxic/Noxious Organisms Worked With
Alexandrium spp., *Aureococcus anophagefferens*, *Mytilus edulis*, *Argopecten irradians*, *Spisula solidissima*, *Mercenaria mercenaria*

Toxins Worked With
Paralytic shellfish toxins

Years of Experience with Harmful Algae/Biotoxins
9

Where Worked
Eastern United States, Canada, Argentina

Regional/International Program Participation

Languages
English, Spanish, French, Slovene, Italian

Citizenship
United States

Carbonell-Moore, M. Consuelo

Research scientist
College of Oceanic & Atmospheric Sciences
Oregon State University
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United States

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Fax: 503-737-2064
Email: INTERNET: carbonec@oce.orst.edu

Degrees
B.S., M.S.

General Expertise
Taxonomy

Specialty
Taxonomy of *Gonyaulax* and *Alexandrium*

Toxic/Noxious Organisms Worked With
Alexandrium monilatum

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
5

Where Worked
Caribbean

Regional/International Program Participation

Languages
English, Spanish, French, Italian, German, Portuguese

Citizenship
United States

Carmichael, Wayne W.

Research scientist
Department of Biological Sciences
Wright State University
Dayton, OH 45435
United States

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Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy, aquaculture, public health, management

Specialty
World wide occurrence toxic cyano-bacteria; biology; toxicology, management

Toxic/Noxious Organisms Worked With
Cyanobacteria (blue-green algae)

Toxins Worked With
Microcystins, anatoxins, paralytic shellfish toxins

Years of Experience with Harmful Algae/Biotoxins
25

Where Worked
All areas

Regional/International Program Participation

Languages
English

Citizenship
United States

United States

Carpenter, Edward J.

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Marine Sciences Research Center
State University of New York at
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United States

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Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy, physiology

Specialty

Tropical planktonic cyanobacterium
Trichodesmium (recently shown to produce neurotoxin); blooms of *Gymnodinium aureolum* on Long Island;
Dinophysis norvegica in the Baltic Sea

Toxic/Noxious Organisms Worked With

Cyanobacterial blooms, *Trichodesmium*,
Gymnodinium aureolum, *Dinophysis norvegica*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

10

Where Worked

Northeastern United States (Northwestern Atlantic), Caribbean, Baltic Sea

Regional/International Program Participation

Languages

English, German

Citizenship

United States

Chapman, John

Research associate
Hatfield Marine Science Center
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United States

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chapman_j@pebvax.new.epa.gov

Degrees

Ph.D.

General Expertise

Ecology, fisheries, aquaculture

Specialty

Investigations of biogeography of marine phytoplankton species, particularly in regard to their potential for introduction to new localities

Toxic/Noxious Organisms Worked With

Species of *Pseudonitzschia* and *Gymnodinium* cf. *aureolum*

Toxins Worked With

Domoic acid

Years of Experience with Harmful Algae/Biotoxins

3

Where Worked

Pacific Northwest

Regional/International Program Participation

Languages

English

Citizenship

United States

DeJesus, Marta D.

Postdoctoral scholar
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dejesus@biovx1.dnet.nasa.gov

BITNET:

dejesus@uclabio.bitnet

Degrees

B.S., C.Phil., Ph.D.

General Expertise

Biology, chemistry, taxonomy, botany, molecular biology (phycology)

Specialty

Dinoflagellate taxonomy

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked

United States West Coast

Regional/International Program Participation

Languages

English

Citizenship

United States

United States

Doucette, Gregory J.

Research biologist
Charleston Laboratory
National Marine Fisheries Service
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United States

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Fax: 803-762-8700

Email: INTERNET:

greg_doucett@ccgate.ssp.nmfs.gov

Degrees

B.Sc., M.Sc., Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Laboratory experimentation with harmful algae, primarily dinoflagellates and diatoms, and their associated bacterial flora; bacterial production of phycotoxins; bacterial/algal interactions; algal nutrient physiology; biochemical composition and ultrastructure; physiology of algal toxin production

Toxic/Noxious Organisms Worked With

Alexandrium spp., *Gymnodinium sanguineum*, *Gambierdiscus toxicus*

Toxins Worked With

Saxitoxins, domoic acid

Years of Experience with Harmful Algae/Biotoxins

7

Where Worked

Canada, United States

Regional/International Program Participation

Languages

English

Citizenship

United States

Dowgert, Martin P.

Staff program specialist
U.S. Food and Drug Administration
Northeast Region
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Stoneham, MA 02180
United States

Telephone: 617-279-1675 ext. 142

Telex:

Fax: 617-279-1742

Email:

Degrees

B.A., M.S.

General Expertise

Public health, management

Specialty

Bivalve molluscan shellfish monitoring programs conducted for protection of public health

Toxic/Noxious Organisms Worked With

Bivalve molluscs

Toxins Worked With

PSP, DSP, ASP

Years of Experience with Harmful Algae/Biotoxins

14

Where Worked

Northeastern U.S., Eastern and Western Canada (as reviewer for FDA), Chile

Regional/International Program Participation

National Shellfish Sanitation Program

Languages

English

Citizenship

United States

Ellis, Sydney

Deputy director
Division of Research and Testing
U.S. Food and Drug Administration
200 C Street, SW
Washington, DC 20204
United States

Telephone: 202-205-4119

Telex:

Fax: 202-205-4940

Email:

Degrees

S.B., M.A., Ph.D.

General Expertise

Physiology, toxicology, pharmacology

Specialty

Florida red tide (*Pyrodiscus brevis*); toxicology in fish, mice, cats, and dogs; mechanics of cardiovascular and respiratory effects

Toxic/Noxious Organisms Worked With

Toxins Worked With

Brevetoxins

Years of Experience with Harmful Algae/Biotoxins

20

Where Worked

Texas, New Hampshire, Massachusetts, North Carolina, France

Regional/International Program Participation

International conferences

Languages

English, French, German, Spanish, Italian

Citizenship

United States

United States

Epstein, Paul R.

Harvard Medical School
The Cambridge Hospital
Harvard School of Public Health
1493 Cambridge Street
Cambridge, MA 02139
United States

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Telex:
Fax: 617-498-1671
Email: pepstein@ige.org

Degrees
M.D., M.P.H.

General Expertise
Public health, medicine

Specialty
Interdisciplinary work; Harvard School of Public Health Working Group on New Disease and Resurgent Disease; teaching on HABs and on relation of *Vibrio cholerae* to algae

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked
Africa, Latin America, Asia

Regional/International Program Participation
Large Marine Ecosystems projects

Languages
Portuguese, Spanish, French

Citizenship
United States

Escalona de Motta, Gladys

Professor
Institute of Neurobiology
University of Puerto Rico
201 Blvd. del Valle
San Juan, Puerto Rico 00901
United States

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Fax: 809-725-3804
Email:

Degrees
Ph.D.

General Expertise
Biology, physiology, toxicology

Specialty
Toxicity and biological activities of benthic dinoflagellates of the Caribbean (such as *Ostreopsis lenticularis*); ciguatera in the Caribbean; clinical manifestations of disease in Puerto Rico, fish and organisms involved

Toxic/Noxious Organisms Worked With
Ostreopsis lenticularis

Toxins Worked With
Toxic chromatographic fractions of *O. lenticularis*

Years of Experience with Harmful Algae/Biotoxins
5

Where Worked
Puerto Rico, Caribbean

Regional/International Program Participation

Languages
Spanish, English, French

Citizenship
United States

Etzel, Ruth Ann

Chief, Air Pollution
& Respiratory Health
National Center for
Environmental Health
Centers for Disease Control
& Prevention
4770 Buford Highway, Mailstop F-39
Atlanta, GA 30341-3724
United States

Telephone: 404-488-7320
Telex:
Fax: 404-488-7335
Email: INTERNET:
rae1@cehdehl.em.cdc.gov

Degrees
M.D., Ph.D.

General Expertise
Public health, medicine

Specialty
Epidemiologic investigation of morbidity and mortality; public health interventions

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
5

Where Worked
Central America (Guatemala)

Regional/International Program Participation

Languages
English, French, Spanish

Citizenship
United States

Faust, Maria A.

Research scientist
Department of Botany
NMNH, Smithsonian Institution
4201 Silver Hill Road MRC 534
Suitland, MD 20746
United States

Telephone: 301-238-3788
Telex:
Fax: 301-238-3667
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faust.maria@simnh.si.edu

Degrees
B.S., M.S., Ph.D.

General Expertise
Biology, ecology, taxonomy

Specialty
Benthic dinoflagellates in coral reefs and mangrove islands; *Prorocentrum* spp., *Gambierdiscus*, *Ostreopsis*, *Amphidinium*, *Coolia*

Toxic/Noxious Organisms Worked With
All dinoflagellates in benthic environments

Toxins Worked With
None

Years of Experience with Harmful Algae/Biotoxins
8

Where Worked
Caribbean, Japan

Regional/International Program Participation

Languages
English, Hungarian

Citizenship
United States

United States

Franks, Peter

Assistant professor
Marine Life Research Group
Scripps Institution of Oceanography
University of California, San Diego
La Jolla, CA 92093-0218
United States

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franks@ucds.edu
OMNET: p.franks

Degrees
B.Sc., M.Sc., Ph.D.

General Expertise
Biology, physics, ecology

Specialty
Physical processes influencing harmful algal blooms

Toxic/Noxious Organisms Worked With
Alexandrium tamarense, *Alexandrium fundyense*

Toxins Worked With
Saxitoxin

Years of Experience with Harmful Algae/Biotoxins
7

Where Worked
Gulf of Maine, Oregon coast

Regional/International Program Participation

Languages
English, French

Citizenship
United States

Freeman, Emil Kennan

Research scientist
Department of Earth
and Planetary Sciences
Johns Hopkins University
Baltimore, MD 21218
United States

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Telex: 7401472 SCOR UC
Fax: 410-516-7933
Email: OMNET: e.gross scor

Degrees
M.Sc., M.D.

General Expertise
Biology, genetics, public health, medicine

Specialty
Public health and other practical problems caused by HABs

Toxic/Noxious Organisms Worked With
Herring, mackerel

Toxins Worked With
PSP, ASP, DSP

Years of Experience with Harmful Algae/Biotoxins
5

Where Worked
Mid-Atlantic Ocean (Guinea Coast), West Africa

Regional/International Program Participation
16th Session of the IOC Assembly

Languages
English, French, Spanish

Citizenship
Ghana

United States

French, Deborah P.

Senior scientist
Applied Science Associates, Inc.
70 Dean Knauss Drive
Narragansett, RI 02882
United States

Telephone: 401-789-6224
Telex:
Fax: 401-789-1932
Email: appsci@tiger.jvmc.met

Degrees

A.B., Ph.D.

General Expertise

Biology, ecology, toxicology, fisheries, modeling

Specialty

Modeling of phytoplankton blooms and population dynamics of animals in general

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked

North America, Europe

Regional/International Program Participation

Languages

English, French

Citizenship

United States

Fryxell, Greta A.

Professor
Department of Oceanography
Texas A&M University
College Station, TX 77843-3146
United States

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Telex:
Fax: 409-845-6331
Email: fryxell@triton.tamu.edu
OMNET: g.fryxell

Degrees

Ph.D., M.Ed., B.A.

General Expertise

Biology, taxonomy

Specialty

Open ocean phytoplankton; domoic acid producers in inshore waters (diatoms and *Pseudonitzschia*)

Toxic/Noxious Organisms Worked With

Pseudonitzschia, diatoms

Toxins Worked With

Domoic acid

Years of Experience with Harmful Algae/Biotoxins

Where Worked

Gulf of Mexico, Central Pacific Ocean, Antarctic Ocean, North Atlantic, South China Sea

Regional/International Program Participation

Conferences and workshops

Languages

English, French

Citizenship

United States

Gaines, Gregory

Scientific advisor
U.S. Embassy Bonn
Unit 21701, Box 285
APO AE 09080
United States

Telephone: 49 228-376217
Telex:
Fax: 49 228-372053
Email: INTERNET: p00877@psilink.com

Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy, physiology

Specialty

Patterns of toxicity related to oceanographic conditions; taxonomy of dinoflagellates; ecology of causative organisms--causes of outbreaks

Toxic/Noxious Organisms Worked With

Dinoflagellates

Toxins Worked With

Paralytic shellfish toxins, ciguatera

Years of Experience with Harmful Algae/Biotoxins

Where Worked

Southern California, British Columbia, U.S. Atlantic

Regional/International Program Participation

Languages

English, French, German

Citizenship

United States

Gallagher, Jane

Research scientist
Biology Department
City College of CUNY
Convent Avenue at 138th St.
New York, NY 10031
United States

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Telex:
Fax: 212-650-8585
Email: INTERNET: jcgcc@cunyum.cuny.edu

Degrees

Ph.D.

General Expertise

Genetics

Specialty

Non-toxic phytoplankton genetics and ecology

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked

Temperate northeastern U.S.

Regional/International Program Participation

Languages

English, French

Citizenship

United States

United States

Garrison, David L.

Research scientist
Institute of Marine Sciences
University of California
Santa Cruz, CA 95064
United States

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OMNET: ucsc.ims

Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy, physiology

Specialty

Algal population dynamics of neritic diatoms; ecology and physiology of domoic acid-producing diatoms

Toxic/Noxious Organisms Worked With

Pseudonitzschia australis

Toxins Worked With

Domoic acid

Years of Experience with Harmful Algae/Biotoxins

Where Worked

California coast

Regional/International Program Participation

Languages

English, French

Citizenship

United States

Guillard, Robert R. L.

Research scientist
Bigelow Laboratory for Ocean Sciences
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West Boothbay Harbor, ME 04575-0475
United States

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Email: OMNET: bigelow.lab

Degrees

M.S., Ph.D.

General Expertise

Biology, aquaculture

Specialty

Culture of algae - isolation of strains

Toxic/Noxious Organisms Worked With

Dinoflagellates, chloromonads, Prymnesiophytes

Toxins Worked With

None

Years of Experience with Harmful Algae/Biotoxins

Where Worked

Atlantic

Regional/International Program Participation

Languages

English, French

Citizenship

United States

United States

Hadley, Daniel

Professor and executive officer
Ph.D. Program in Earth
and Environmental Sciences
Graduate School
Queens College, CUNY
33 West 42 St., Rm. 1201
New York, NY 10036
United States

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Email: INTERNET:
dxh\$geol@qc1.acc.qc.edu

Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy, benthic cyst
sedimentology

Specialty
Benthic cysts of phagotrophic species as-
sociated with anthropogenically contami-
nated sediment

**Toxic/Noxious Organisms
Worked With**
Polykrikos schwartzii, *Protoperidinium*
leonis, *P. compressum*, *Pyrodinium*
bahamense, cysts and motile cells

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
27

Where Worked
Puerto Rico, western North Atlantic,
Galacia Banks (Iberian Peninsula)

**Regional/International
Program Participation**
Deep Sea Drilling Project; Ocean Drilling
Program

Languages
English, Spanish, French

Citizenship
United States

Hadley, Steven William

Research scientist
Seafood Products Research Center
U.S. Food and Drug Administration
P.O. Box 3012
Bothell, WA 98041-3012
United States

Telephone: 206-486-8788
Telex:
Fax: 206-483-4996
Email:

Degrees
B.S., Ph.D.

General Expertise
Chemistry, aquaculture, biochemistry

Specialty
Isolation, chemical characterization, and
synthesis of natural products; chemical and
immunochemical methods for determining
biologically active compounds; GC/MS
method for domoic acid

**Toxic/Noxious Organisms
Worked With**
Razor clams, mussels, crab

Toxins Worked With
domoic acid

**Years of Experience with
Harmful Algae/Biotoxins**

Where Worked
Pacific northwest

**Regional/International
Program Participation**

Languages
English

Citizenship
United States

Halstead, Bruce W.

Director
International Biotoxicological Centre
World Life Research Institute
23000 Grand Terrace Road
Colton, CA 92324
United States

Telephone: 909-825-4773
Telex:
Fax: 909-783-3477
Email:

Degrees
B.S., M.D.

General Expertise
Biology, ecology, toxicology, public
health, medicine

Specialty
Documentation of algal toxins on a global
basis

**Toxic/Noxious Organisms
Worked With**
All toxic species worldwide

Toxins Worked With
All marine biotoxins

**Years of Experience with
Harmful Algae/Biotoxins**
44

Where Worked
Global

**Regional/International
Program Participation**

Languages
English

Citizenship
United States

Hargraves, Paul E.

Professor
Graduate School of Oceanography
University of Rhode Island
South Ferry Road
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United States

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Email: INTERNET:
pharg@gsosun1.gso.uri.edu

Degrees
B.S., M.S., Ph.D.

General Expertise
Biology, ecology, taxonomy

Specialty
Systematics, life cycles, ultrastructure

**Toxic/Noxious Organisms
Worked With**

Toxins Worked With
(DA)ASP

**Years of Experience with
Harmful Algae/Biotoxins**
20

Where Worked
North American Pacific and Atlantic
Coasts, Central America

**Regional/International
Program Participation**

Languages
English, Spanish, German

Citizenship
United States

United States

Hokama, Yoshitsugi

Professor
Department of Pathology
John A. Burns School of Medicine
University of Hawaii, Manoa
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United States

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Email:

Degrees
A.B., M.A., Ph.D.

General Expertise
Biology, chemistry, toxicology, experi-
mental pathology

Specialty
Ciguatera fish poisoning, biology, pharma-
cology, chemistry, immunological testing-
other dinoflagellates

**Toxic/Noxious Organisms
Worked With**
Gambierdiscus toxicus, amberjacks, snap-
pers, groupers, and herbivores of reef ar-
eas

Toxins Worked With
Ciguatoxin and sodium channel inhibitors
(TTX, PSP)

**Years of Experience with
Harmful Algae/Biotoxins**
20

Where Worked
Hawaii

**Regional/International
Program Participation**

Languages
English

Citizenship
United States

Horner, Rita A.

Oceanographer
School of Oceanography, WB-10
University of Washington
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Seattle, WA 98195
United States

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Email: INTERNET:
rita@ocean.washington.edu

Degrees
B.S., M.S., Ph.D.

General Expertise
Biology, ecology, taxonomy, aquaculture,
monitoring

Specialty
General phytoplankton taxonomy, includ-
ing harmful species, using LM and SEM;
distribution and ecology of harmful spe-
cies; monitoring programs, including
workshops on identifying harmful species;
HABs and finfish mortality; retention of
domoic acid by razor clams

**Toxic/Noxious Organisms
Worked With**
Chaetoceros convolutus, *C. concavicornis*,
Alexandrium catenella, *Heterosigma*
cartae

Toxins Worked With
Domoic acid

**Years of Experience with
Harmful Algae/Biotoxins**
7

Where Worked
U.S. Pacific Northwest

**Regional/International
Program Participation**
National Coordinating Center for Ex-
change of Information on Exceptional Phy-
toplankton blooms; National plan on ma-
rine biotoxins and harmful algae (parti-
cipant)

Languages
English, Norwegian, German

Citizenship
United States

United States

Hungerford, James

Research chemist
Seafood Products Research Center
U.S. Food and Drug Administration
P.O. Box 3012
Bothell, WA 98041
United States

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Telex:
Fax: 206-483-4996
Email:

Degrees
Ph.D.

General Expertise
Chemistry, toxicology, public health

Specialty
Automated chromatographic and flow injection methodology for seafood toxins including paralytic shellfish toxins and domoic acids; automated methods for histamine analysis and detection of enzyme inhibitors; analytical chemistry, particularly microscale analytical methods

Toxic/Noxious Organisms Worked With
Toxins in several species of commercial bivalves, crab viscera, and various finfish

Toxins Worked With
PSP, domoic acid

Years of Experience with Harmful Algae/Biotoxins
4

Where Worked
North America

Regional/International Program Participation
U.S.-Japan Conference on the Development and Utilization of Natural Resources (UJNR)-Toxic Microorganisms: technical support to NSSP, ISSC; general referee, seafood toxins, AOAC

Languages
English

Citizenship
United States

Hurst, John W.

Director
Fisheries and Health Science Division
Department of Marine Resources
Box 8, McKown Point
West Boothbay Harbor, ME 04575
United States

Telephone: 207-633-9500
Telex:
Fax: 207-633-9579
Email:

Degrees
B.S.

General Expertise
Biology, toxicology, fisheries, public health, management

Specialty
Monitoring programs for *Alexandrium tamarense*

Toxic/Noxious Organisms Worked With
Alexandrium tamarense in *Mytilus edulis*, *Modiolus modiolus*, *Arctica islandica*, *Spisula solidissima*, *Ostrea edulis*, *Crassostrea virginica*, *Placopecton magellanicus*

Toxins Worked With
Paralytic shellfish toxins

Years of Experience with Harmful Algae/Biotoxins
36

Where Worked
Maine

Regional/International Program Participation
NSSP

Languages
English

Citizenship
United States

Ikawa, Miyoshi

Research scientist
Department of Zoology
University of New Hampshire
Spaulding Life Sciences Building
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United States

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Fax: 603-862-3784
Email:

Degrees
B.S., M.S., Ph.D.

General Expertise
Chemistry, toxicology

Specialty
Chemical nature of PSP from toxic marine shellfish (*Mya arenaria*, *Mytilus edulis*) and from the freshwater cyanobacteria *Aphanizomenon flos-aquae*; HPLC studies of the toxins of the cyanobacterium *Microcystis aeruginosa*; ecological effects of fatty acids from freshwater cyanobacteria and detection of the toxins by fluorometric and colorimetric methods; toxic effects of fatty acids in marine and freshwater organisms

Toxic/Noxious Organisms Worked With
Alexandrium tamarense, *Aphanizomenon flos-aquae*, *Microcystis aeruginosa*

Toxins Worked With
PSP, microcystins, fatty acids

Years of Experience with Harmful Algae/Biotoxins
25

Where Worked
Northeastern U.S., Japan

Regional/International Program Participation

Languages
English, Japanese

Citizenship
United States

Jovine, Raffaele

Post-doctoral investigator
Biology Department
Redfield 3-32
Woods Hole, MA 02543
United States

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Fax:
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rjovine@whoi.edu

Degrees
B.S. molecular biophysics and biochemistry; Ph.D. aquatic population biology

General Expertise
Physiology, genetics, ecology

Specialty
Photophysiology of bloom-forming dinoflagellates; light-harvesting complex isolation and characterization; study and isolation of structural genes

Toxic/Noxious Organisms Worked With
Prorocentrum minimum, *Gonyaulax polyedra*, *Alexandrium tamarense*, *Alexandrium fundyense*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
6

Where Worked
United States, Antarctica, Central Pacific Ocean

Regional/International Program Participation

Languages
German, English, Italian

Citizenship
Italy

United States

Kamykowski, Daniel

Professor
Department of Marine, Earth, and Atmospheric Sciences
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d.kamykowski
INTERNET:
kamykowski@meavax.nrrc.ncsu.edu

Degrees
Ph.D.

General Expertise
Biology, chemistry, physics, ecology, physiology

Specialty
Dinoflagellate behavior and physiology using upper ocean models of the mixed layer

Toxic/Noxious Organisms Worked With
Gymnodinium breve

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
20

Where Worked
United States (Pacific, Atlantic, Gulf coasts)

Regional/International Program Participation

Languages
English, French

Citizenship
United States

Kao, Chien-Yuan

Professor
Department of Pharmacology
State University of New York
Health Science Center, Brooklyn
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Brooklyn, NY 11203
United States

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Telex:
Fax: 718-270-3309
Email:

Degrees
B.A., M.D.

General Expertise
Physiology, toxicology, medicine

Specialty
Cellular, molecular, and systemic actions of toxins in mammals

Toxic/Noxious Organisms Worked With

Toxins Worked With
Saxitoxins and related members

Years of Experience with Harmful Algae/Biotoxins
31

Where Worked
United States

Regional/International Program Participation

Languages
English, Chinese

Citizenship
United States

United States

Keafer, Bruce A.

Research associate
Biology Department
Woods Hole Oceanographic Institution
Woods Hole, MA 02543
United States

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Email: INTERNET:
bkeafer@whoi.edu

Degrees

B.S.

General Expertise

Biology, ecology, taxonomy, oceanography

Specialty

Field ecology including hydrographic sampling protocols for the collection of vegetative cells and cysts; use of satellite imagery for bloom detection and dynamics; development and use of fluorescent antibody probes to cell surface antigens for species identification

Toxic/Noxious Organisms Worked With

Alexandrium tamarense, *Alexandrium fundyense*, *Gymnodinium catenatum*, *Gambierdiscus toxicus*, *Aureococcus anophagefferens*, *Nitzschia pungens* var. multi-species, *Cochlodinium heterolobatum*

Toxins Worked With

Saxitoxins and derivatives

Years of Experience with Harmful Algae/Biotoxins

17

Where Worked

Chesapeake Bay, Cape Cod, Gulf of Maine

Regional/International Program Participation

Gulf of Maine Regional Marine Research/Toxin Steering Committee; Chinese/U.S. cooperative program (1993-present); Spanish/U.S. cooperative program (1986-1989)

Languages

English, French

Citizenship

United States

Keller, Maureen

Research scientist
Bigelow Laboratory for Ocean Sciences
McKown Point
West Boothbay Harbor, ME 04575
United States

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Telex:
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Email: OMNET: bigelow.lab

Degrees

M.S.

General Expertise

Biology, chemistry, ecology, physiology

Specialty

Physiological ecology; distribution; hydrographic effects on bloom formation; nutrition; culture

Toxic/Noxious Organisms Worked With

Alexandrium tamarense, *Chrysochromulina*, *Phaeocystis*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

15

Where Worked

Northwest Atlantic

Regional/International Program Participation

Languages

English, French

Citizenship

United States

Kinoshita, Masao

Doctoral candidate
School of Medicine
Department of Biochemistry
and Molecular Biology
University of Miami
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Miami, FL 33101-6129
United States

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Telex:
Fax: 305-361-4600
Email: masao@martox.rsmas.miami.edu

Degrees

B.S., M.S., Ph.D. candidate

General Expertise

Biology, microbiology, biochemistry

Specialty

Growth of *Gymnodinium breve* and *Prorocentrum lima* in culture; isolation of NSP and DSP toxins; molecular biology of sodium channels and protein phosphatases

Toxic/Noxious Organisms Worked With

Gymnodinium breve, *Prorocentrum lima*

Toxins Worked With

Brevetoxins, okadaic acid

Years of Experience with Harmful Algae/Biotoxins

6

Where Worked

Florida

Regional/International Program Participation

Languages

English

Citizenship

United States

United States

Kirkpatrick, Gary

Staff scientist
Mote Marine Laboratory
1600 Thompson Parkway
Sarasota, FL 34236
United States

Telephone: 813-388-4441
Telex:
Fax: 813-388-4312
Email: mmigikirk@aol.com

Degrees

Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Dinoflagellate swimming behavior; pigmentation and light absorption characteristics of *Gymnodinium breve*

Toxic/Noxious Organisms Worked With

Gymnodinium breve

Toxins Worked With

Brevetoxins

Years of Experience with Harmful Algae/Biotoxins

10

Where Worked

Southern Mid-Atlantic Bight; Gulf of Mexico

Regional/International Program Participation

Languages

English

Citizenship

United States

Kizer, Kenneth W.

Professor and chairman
Department of Community
and International Health
School of Medicine, TB-168
University of California
Davis, CA 95616
United States

Telephone: 916-752-3972
Telex:
Fax: 916-752-3239
Email:

Degrees

M.D., M.P.H.

General Expertise

Biology, ecology, physiology, toxicology, public health, management, medicine

Specialty

Clinical expertise in managing cases of shellfish poisoning, including PSP, ciguatera, NSP, botulism, and others; public health expertise in food safety in general and shellfish poisoning prevention in particular; former director of health of the State of California with responsibility for the state's shellfish safety and food safety programs; board-certified in medical toxicology, emergency medicine, occupational medicine, and general preventive medicine and public health

Toxic/Noxious Organisms Worked With

PSP, ciguatera species

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

15

Where Worked

Indo-Pacific, Hawaii, U.S. Gulf Coast, Chile

Regional/International Program Participation

Consultant to Chile 5/91, lecturer in various countries

Languages

Spanish

Citizenship

United States

Klein-MacPhee, Grace

Research marine scientist
Graduate School of Oceanography
University of Rhode Island
Narragansett Bay Campus
Narragansett, RI 02882-1197
United States

Telephone: 401-792-6695
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Fax: 401-792-6160
Email: INTERNET:
gracemac@gsosun1.gso.uri.edu

Degrees

A.B., M.A., Ph.D.

General Expertise

Biology, fisheries

Specialty

Effects of dinoflagellate toxins on flounder larvae

Toxic/Noxious Organisms Worked With

Winter flounder, summer flounder

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

4

Where Worked

Northeastern United States

Regional/International Program Participation

Languages

French, German

Citizenship

United States

United States

Kulis, David

Research assistant
Biology Department
Woods Hole Oceanographic Institution
Woods Hole, MA 02543
United States

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Degrees
B.S.

General Expertise
Biology, ecology, taxonomy, toxicology

Specialty
Culturing of many organisms that cause red tides; HPLC analysis of paralytic shellfish toxins; trained in many aspects necessary for conducting coastal field programs for monitoring red tide blooms

Toxic/Noxious Organisms Worked With
Alexandrium spp., Gymnodinium spp., ciguatera dinoflagellates

Toxins Worked With
Paralytic shellfish toxins

Years of Experience with Harmful Algae/Biotoxins
10

Where Worked
New England (United States)

Regional/International Program Participation

Languages
English

Citizenship
United States

Kvitek, Rikk G.

Research associate
Moss Landing Marine Laboratory
P.O. Box 450
Moss Landing, CA 95039
United States

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Fax: 408-633-5642
Email: kvitek@mlml.calstate.edu

Degrees
M.S., Ph.D.

General Expertise
Biology, ecology

Specialty
Ecological impacts of toxic blooms and their role in the evolution and mitigation of predator/prey relationships

Toxic/Noxious Organisms Worked With
Sea gulls, sea otters, sculpins, bivalves

Toxins Worked With
STX

Years of Experience with Harmful Algae/Biotoxins
4

Where Worked
West Coast of North America

Regional/International Program Participation

Languages
English

Citizenship
United States

Lange, Carina B.

Associate specialist
Scripps Institution of Oceanography
Geological Research Division, 0215
9500 Gilman Drive
La Jolla, CA 92093-0215
United States

Telephone: 619-534-4605
Telex:
Fax: 619-534-0784
Email: INTERNET:
clange@ucsd.edu

Degrees
Ph.D.

General Expertise
Biology, ecology, taxonomy

Specialty
Diatoms; toxic *Pseudonitzschia*; blooms; morphology; taxonomy

Toxic/Noxious Organisms Worked With
Pseudonitzschia spp.

Toxins Worked With
Domoic acid

Years of Experience with Harmful Algae/Biotoxins
2

Where Worked
Northeast Pacific; North Atlantic; Southwest Atlantic

Regional/International Program Participation
Inter-American Institute for Global Change

Languages
English, Spanish, German

Citizenship
United States

Levandowsky, Michael

Research scientist
Haskins Laboratories
Pace University
41 Park Row
New York, NY 10038
United States

Telephone: 212-346-1264
Telex:
Fax:
Email:

Degrees
Ph.D.

General Expertise
Biology, ecology

Specialty
Behavior of dinoflagellates

Toxic/Noxious Organisms Worked With
Various dinoflagellates

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
15

Where Worked
Northeast coast of North America

Regional/International Program Participation

Languages
English, French, Spanish, German, Russian

Citizenship
United States

United States

Lewitus, Alan J.

Research assistant professor
Baruch Marine Field Laboratory
University of South Carolina
P.O. Box 1630
Georgetown, SC 29442
United States

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Telex:
Fax: 803-546-1632
Email: INTERNET:
lewitus@belle.baruch.scarolina.edu

Degrees
B.A., M.S., Ph.D.

General Expertise
Biology, ecology, physiology

Specialty
Ecology of red tide dinoflagellates and other nuisance bloom plankton; ecology/physiology of *Pfiesteria piscimorte* or other "ambush predators"

Toxic/Noxious Organisms Worked With
Pfiesteria piscimorte

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
3

Where Worked
Chesapeake Bay; North Inlet, South Carolina; Pacific; Atlantic

Regional/International Program Participation

Languages
English, Spanish

Citizenship
United States

Liddle, Larry

Coordinator
Marine Science Program
Long Island University
Southampton Campus
Southampton, NY 11968
United States

Telephone: 516-283-4000
Telex:
Fax: 516-287-8419
Email: liddle@seaweed.liunet.edu

Degrees
B.S., M.S., Ph.D.

General Expertise
Biology

Specialty
body Phytoplankton

Toxic/Noxious Organisms Worked With

Toxins Worked With
Aureococcus

Years of Experience with Harmful Algae/Biotoxins

Where Worked
New York (Peconic Bay, Long Island)

Regional/International Program Participation

Languages
Spanish, French, German

Citizenship
United States

United States

Mahoney, John Brian

Research microbiologist
James J. Howard Marine
Sciences Laboratory
NOAA/NMFS
Northeast Fisheries Science Center
Highlands, NJ 07732
United States

Telephone: 908-872-3055
Telex:
Fax: 908-872-3088
Email:

Degrees
B.S., M.S., Ph.D.

General Expertise
Biology

Specialty
Chemical quality of water in regulation of
phytoplankton growth

**Toxic/Noxious Organisms
Worked With**
Olisthodiscus luteus

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
32

Where Worked
New York Bight, Hudson-Raritan Estuary

**Regional/International
Program Participation**

Languages
English

Citizenship
United States

Manger, Ronald

Research scientist
Seafood Products Research Center
U.S. Food and Drug Administration
P.O. Box 3012
22201 23rd Drive SE
Bothell, WA 98041-3012
United States

Telephone: 206-483-4892
Telex:
Fax: 206-483-4996
Email:

Degrees
Ph.D.

General Expertise
Biology, physiology

Specialty
Development of cell-based methods to
detect and quantitate marine toxins

**Toxic/Noxious Organisms
Worked With**
Ciguatoxic finfish, bivalve molluscs

Toxins Worked With
PSP, NSP, ciguatoxins

**Years of Experience with
Harmful Algae/Biotoxins**

Where Worked

**Regional/International
Program Participation**

Languages

Citizenship
United States

Maranda, Lucie

Research assistant professor
Laboratory of Marine Pharmacognosy
and Biotechnology
Department of Pharmacognosy
University of Rhode Island
Kingston, RI 02881
United States

Telephone: 401-792-2751
Telex:
Fax: 401-792-2181
Email:

Degrees
B.Sc., M.Sc., Ph.D.

General Expertise
Biology, ecology, taxonomy, physiology

Specialty
Identification, isolation, and culture of di-
noflagellates (planktonic as well as sym-
biotic) from northern temperate and tropi-
cal areas; ecology of coastal *Dinophysis*;
photosynthesis of some thecate dinoflagel-
lates

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense, *Dinophysis*
acuminata, *Ostreopsis* spp., and *Gam-
bierdiscus toxicus*

Toxins Worked With
PSP and DSP

**Years of Experience with
Harmful Algae/Biotoxins**
15

Where Worked
U.S. northeast, eastern Canada, Caribbean
islands

**Regional/International
Program Participation**

Languages
French, English

Citizenship
Canada

Marshall, Harold

Professor
Department of Biological Sciences
Old Dominion University
Norfolk, VA 23529-0266
United States

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Fax: 804-683-5283
Email: INTERNET:
hgm100f@oduvm.cc.odu.edu

Degrees
B.S., M.S., Ph.D.

General Expertise
Biology, ecology, taxonomy

Specialty
Study of phytoplankton from marine, fresh
water, and estuarine sites, with emphasis
on spatial distribution and ecology

**Toxic/Noxious Organisms
Worked With**
Cochlodinium heterolobatum, several
Dinophysis species

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
8

Where Worked
North Atlantic, equatorial Pacific, Carib-
bean Sea, Chesapeake Bay

**Regional/International
Program Participation**
Chesapeake Bay, coastal waters of the cen-
tral U.S. east coast

Languages
English, German

Citizenship
United States

United States

Martin, Christopher

Research scientist
Milford Laboratory
NOAA/NMFS
Northeast Fisheries Science Center
212 Rogers Road
Milford, CT 06460-6499
United States

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Email: cmartin@rdc.noaa.gov

Degrees
A.B., A.M., Ph.D.

General Expertise
Biology

Specialty
Ecological aspects of bloom initiation; bi-
oluminescence of dinoflagellates; chem-
istry of PSP/domoic acid toxins

**Toxic/Noxious Organisms
Worked With**
Alexandrium tamarense, *Nitzschia pun-
gens* ff., *Dinophysis* sp., *Scomber scomber*
(Atlantic mackerel)

Toxins Worked With
PSP/domoic acid

**Years of Experience with
Harmful Algae/Biotoxins**
22

Where Worked
Northeastern U.S.

**Regional/International
Program Participation**
Massachusetts state programs

Languages
English, French, German

Citizenship
United States

Matrai, Patricia

Research Associate
Marine and Atmospheric Chemistry
Rosensteil School of Marine
and Atmospheric Science
University of Miami
4600 Rickenbacker Causeway
Miami, FL 33149-1098
United States

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Fax: 305-361-4689
Email: INTERNET:
pmatrai@rsmas.miami.edu

Degrees
Ph.D.

General Expertise
Biology, chemistry, physiology

Specialty
Taxonomy

**Toxic/Noxious Organisms
Worked With**
Dinoflagellates

Toxins Worked With

**Years of Experience with
Harmful Algae/Biotoxins**
5

Where Worked
South Pacific (Chile), North Pacific
(Southern California), Western North At-
lantic (Gulf of Maine)

**Regional/International
Program Participation**
International conference on toxic marine
phytoplankton, National Shellfish Asso-
ciation

Languages
Spanish, French, English

Citizenship
Chile

United States

Matter, Alicia

School of Fisheries, HF-15
University of Washington
Seattle, WA 98195
United States

Telephone: 206-685-3273
Telex:
Fax: 206-685-3275
Email: INTERNET:
alicia@u.washington.edu

Degrees

B.S.

General Expertise

Biology, fisheries

Specialty

Growth characteristics and vertical migration of *Heterosigma carteri*; food web transfer of PSP toxins

Toxic/Noxious Organisms Worked With

Heterosigma carteri, *Alexandrium*

Toxins Worked With

PSP

Years of Experience with Harmful Algae/Biotoxins

3

Where Worked

State of Washington, United States

Regional/International Program Participation

International conference on toxic marine phytoplankton; National Shellfisheries Association

Languages

English

Citizenship

United States

McCallum, Mary

Coordinator
Marine Biotoxin Monitoring Program
Office of Shellfish Programs
Department of Health
P.O. Box 47824
Olympia, WA 98504-7824
United States

Telephone: 206-753-5964
Telex:
Fax: 206-586-4499
Email:

Degrees

M.S.

General Expertise

Biology, public health

Specialty

Government monitoring and regulatory program for marine biotoxins in commercial and recreational shellfish harvest

Toxic/Noxious Organisms Worked With

Alexandrium catenella, *Nitzschia* sp., *Pseudonitzschia* sp., molluscan shellfish

Toxins Worked With

Saxitoxins, domoic acid

Years of Experience with Harmful Algae/Biotoxins

8

Where Worked

U.S. Pacific Northwest

Regional/International Program Participation

Languages

Spanish

Citizenship

United States

McGinness, Kellie

Lab technician
Department of
Biological Oceanography
Texas A&M University
P.O. Box 1538
College Station, TX 77841
United States

Telephone: 409-847-8359
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%klm2255@tamu.edu

Degrees

B.S. candidate

General Expertise

Fisheries

Specialty

Species of toxic phytoplankton ingested by California anchovies caught in Monterey Bay, California

Toxic/Noxious Organisms Worked With

Pseudonitzschia pungens, *Pseudonitzschia australis*, *Engraulis mordax* (anchovy)

Toxins Worked With

Domoic acid

Years of Experience with Harmful Algae/Biotoxins

2

Where Worked

California

Regional/International Program Participation

Languages

English

Citizenship

United States

Miller, Peter E.

Ph.D. candidate
272 Applied Sciences
Institute of Marine Sciences
University of California, Santa Cruz
Santa Cruz, CA 95064
United States

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pemiller@cats.ucsc.edu

Degrees

General Expertise

Biology, ecology, genetics

Specialty

Toxic/Noxious Organisms Worked With

Pseudonitzschia sp.

Toxins Worked With

Domoic acid

Years of Experience with Harmful Algae/Biotoxins

Where Worked

West coast of North America

Regional/International Program Participation

Languages

Citizenship

United States

United States

Mooers, Christopher N.K.

Director
Ocean Pollution Research Center
University of Miami
RSMAS/OPRC MSC 132
4600 Rickenbacker Causeway
Miami, FL 33149-1098
United States

Telephone: 305-361-4825
Telex:
Fax: 305-361-4701
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cmooers@rsmas.miami.edu
OMNET: cmooers

Degrees

B.S., M.S., Ph.D.

General Expertise

Physics

Specialty

Transient coastal ocean circulation

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked

North and South America

Regional/International Program Participation

Languages

English, Russian

Citizenship

United States

Moore, Richard Elliott

Research scientist
Department of Chemistry
University of Hawaii
2545 The Mall
Honolulu, HI 96822
United States

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Fax: 808-956-5908
Email:
moore@helium.chem.hawaii.edu

Degrees

Ph.D.

General Expertise

Chemistry

Specialty

Structure determination, synthesis, and biosynthesis of cyanobacterial toxins

Toxic/Noxious Organisms Worked With

Lyngbya majuscula, *Anabaena flos-aquae*, *Microcystis* sp., *Cylindrospermopsis raciborskii*

Toxins Worked With

anatoxin-a(s), lyngbyatoxin, aplysiatoxin, cylindrospermopsin, microcystins

Years of Experience with Harmful Algae/Biotoxins

35

Where Worked

Hawaii, North America

Regional/International Program Participation

Languages

English

Citizenship

United States

United States

Morton, Steve

Research scientist
Department of Plant Biology
Southern Illinois University
Carbondale, IL 62901
United States

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Telex:

Fax: 618-453-3441

Email:

Degrees

B.S., M.S., Ph.D.

General Expertise

Biology, genetics, taxonomy, physiology

Specialty

Physio-ecology, taxonomy, and culture of dinoflagellates associated with ciguatera

Toxic/Noxious Organisms Worked With

Gambierdiscus, *Prorocentrum* sp., *Ostreopsis*

Toxins Worked With

Okadaic acid, DTX-1, GTX

Years of Experience with Harmful Algae/Biotoxins

9

Where Worked

Florida Keys, Caribbean, Bahamas

Regional/International Program Participation

Languages

English, Spanish

Citizenship

United States

Nassif, Julianne

Director of Environmental Chemistry
Massachusetts Department
of Public Health
305 South Street
Jamaica Plain, MA 02130
United States

Telephone: 617-522-3700 ext.388

Telex:

Fax: 617-522-3700 ext.310

Email:

Degrees

B.S., M.S.

General Expertise

Public health, monitoring

Specialty

Occurrence of toxic shellfish in New England; analytical techniques for shellfish monitoring

Toxic/Noxious Organisms Worked With

Mussels, clams, scallops, quahogs

Toxins Worked With

ASP, PSP

Years of Experience with Harmful Algae/Biotoxins

6

Where Worked

New England

Regional/International Program Participation

Languages

English, some French

Citizenship

United States

Navarro, Ana

Instructor/student
Department of Marine Sciences
University of Puerto Rico-
Mayaguez Campus
Box 5000
Mayaguez, Puerto Rico 00680
United States

Telephone: 809-899-1078

Telex:

Fax: 809-899-5500

Email:

Degrees

B.S., M.S., Ph.D.

General Expertise

Biology, chemistry

Specialty

Toxic/Noxious Organisms Worked With

Trichodesmium blooms

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked

Puerto Rico

Regional/International Program Participation

Languages

Spanish

Citizenship

United States

Newell, Carter R.

Biologist
Great Eastern Mussel Farms, Inc.
P.O. Box 141
Tenants Harbor, ME 04860
United States

Telephone: 207-372-6317

Telex:

Fax: 207-372-8256

Email:

Degrees

M.Sc.

General Expertise

Biology, fisheries, aquaculture

Specialty

Phytoplankton ecology of mussel growing areas of Maine

Toxic/Noxious Organisms Worked With

Mussels

Toxins Worked With

PSP, DSP, domoic acid

Years of Experience with Harmful Algae/Biotoxins

8

Where Worked

Gulf of Maine

Regional/International Program Participation

Languages

English, French

Citizenship

United States

United States

Nishitani, Louisa

Fisheries biologist (retired)
School of Fisheries
University of Washington
52 Deer Cove Lane
Naches, WA 98937
United States

Telephone: 509-658-2462

Telex:

Fax:

Email:

Degrees

B.S., M.S.

General Expertise

Biology, fisheries

Specialty

Factors affecting growth and accumulation of *Alexandrium catenellum*, based on culture experiments and field studies

Toxic/Noxious Organisms Worked With

Alexandrium catenellum

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

12

Where Worked

Pacific northwest of United States

Regional/International Program Participation

Languages

English

Citizenship

United States

Norris, Dean R.

Chairman
Division of Marine
Environmental Systems
Florida Institute of Technology
150 West University Boulevard
Melbourne, FL 32901-6988
United States

Telephone: 407-768-8000 ext. 7377

Telex:

Fax: 407-984-8461

Email:

Degrees

B.S., M.S., Ph.D.

General Expertise

Ecology, taxonomy

Specialty

Identification and ecology of *Dinophysis* spp.; aspects of ciguatera ecology including identification of the dinoflagellates associated with ciguatera and in the red-tide dinoflagellate *Alexandrium monilata*

Toxic/Noxious Organisms Worked With

Dinophysis spp., *Alexandrium monilata*, *Gambierdiscus toxicus*, *Prorocentrum* spp., *Ostreopsis* spp.

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

13

Where Worked

Gulf of Mexico, East Coast of Florida

Regional/International Program Participation

Languages

English

Citizenship

United States

United States

Nuzzi, Robert

Chief
Bureau of Marine Resources
Suffolk County Department of Health
Evans K. Griffing County Center
Riverhead, NY 11901
United States

Telephone: 516-852-2082
Telex:
Fax: 516-852-2092
Email:

Degrees

B.S., M.S., Ph.D.

General Expertise

Biology, ecology, physiology, public health

Specialty

Population dynamics of algal species in Long Island, New York

Toxic/Noxious Organisms Worked With

Alexandrium tamarense, *Prorocentrum* spp., *Aureococcus anophagefferens*

Toxins Worked With

Saxitoxin

Years of Experience with Harmful Algae/Biotoxins

20

Where Worked

New York coastal waters

Regional/International Program Participation

New York/New Jersey Interagency Committee on Phytoplankton Blooms

Languages

English, some Spanish

Citizenship

United States

Osborn, Thomas R.

Professor
The Johns Hopkins University
Olin Hall/JHU
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United States

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Fax: 410-516-7933
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osborn@jhunix.hcf.jhu.edu

Degrees

A.B., M.Sc., Ph.D.

General Expertise

Physics

Specialty

The role of physical processes in the dynamics of harmful algal events

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

Where Worked

Regional/International Program Participation

ICES, IOC

Languages

English, French

Citizenship

United States

Ostasz, Michael J.

Shellfish program coordinator
Alaska Department
of Environmental Conservation
800 East Dimond Blvd., Suite 3-455
Anchorage, AK 99515
United States

Telephone: 907-349-7343
Telex:
Fax: 907-349-4715
Email:

Degrees

B.A.A.S., B.S., M.P.H.

General Expertise

Fisheries, public health

Specialty

PSP sampling and management program dealing with crab (tanner, king, Dungeness), snails, oysters, clams, and mussels

Toxic/Noxious Organisms Worked With

Alexandrium

Toxins Worked With

Domoic acid, saxitoxin

Years of Experience with Harmful Algae/Biotoxins

17

Where Worked

Alaska, Oregon, Florida, Wyoming, Kansas

Regional/International Program Participation

U.S. National Harmful Algal Bloom Monitoring Program (ICES)

Languages

English

Citizenship

United States

Park, Douglas L.

Professor
Department of Nutrition
and Food Science
309 Shantz
University of Arizona
Tucson, AZ 85721
United States

Telephone: 602-621-5107
Telex:
Fax: 602-621-9446
Email:

Degrees

B.S., M.S., Ph.D.

General Expertise

Chemistry, toxicology, aquaculture, public health

Specialty

Analytical method development and validation; seafood safety (toxicology and pathogenic organisms); regulations; international standard setting organizations; dinoflagellate culture

Toxic/Noxious Organisms Worked With

Gambierdiscus toxicus, *Prorocentrum* sp., *Alexandrium* sp.

Toxins Worked With

PSP, ciguatera toxin, okadaic acid, domoic acid, palytoxin

Years of Experience with Harmful Algae/Biotoxins

12

Where Worked

Eastern and western U.S. coastlines; Caribbean; Hawaii

Regional/International Program Participation

IUPAC Food Chemistry Commission; AOAC International; IOC (UNESCO) Panel on Harmful Algal Blooms, U.S. Food and Drug Administration

Languages

English, French

Citizenship

United States

United States

Pierce, Richard

Research director
Mote Marine Laboratory
1600 Thompson Parkway
Sarasota, FL 34236
United States

Telephone: 813-388-4441
Telex:
Fax: 813-388-4312
Email: mmlrpierce@aol.com

Degrees

B.A., M.S., Ph.D.

General Expertise

Chemistry, toxicology, management

Specialty

Gymnodinium breve and brevetoxin; analysis in water, air, and marine organisms; aerosolization; acute and chronic toxicity to fish; exposure bioaccumulation studies

Toxic/Noxious Organisms Worked With

Gymnodinium breve, mullet, menhaden, pinfish

Toxins Worked With

Brevetoxins

Years of Experience with Harmful Algae/Biotoxins

10

Where Worked

Gulf of Mexico, Florida coast, North Carolina coast

Regional/International Program Participation

Cooperation with Florida DEP on blooms in the Gulf of Mexico; cooperation with NOAA/NMFS on bioaccumulation and metabolism studies

Languages

English

Citizenship

United States

Plumley, F. Gerald

Associate professor
Institute of Marine Science
University of Alaska
Fairbanks, AK 99709
United States

Telephone: 907-474-6786
Telex:
Fax: 907-474-7204
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Degrees

B.S., M.S., Ph.D.

General Expertise

Biology, physiology

Specialty

Molecular biology and biochemistry of toxic algae

Toxic/Noxious Organisms Worked With

Alexandrium, *Aphanizomenon*

Toxins Worked With

Saxitoxins

Years of Experience with Harmful Algae/Biotoxins

3

Where Worked

Alaska

Regional/International Program Participation

Canadian workshops; International Symposium on Harmful Algae

Languages

English

Citizenship

United States

United States

Poll, Mark Alan

Research scientist
Dept. Cell Biology and Biochemistry
Toxinology Division
United States MRIID/Fort Detrick
Frederick, MD 21702-5011
United States

Telephone: 301-619-7181
Telex:
Fax: 301-619-2348
Email:

Degrees
M.S., Ph.D.

General Expertise
Biology, physiology, toxicology

Specialty
Detection, including immunoassay and membrane binding assays, as well as HPLC separations; pharmacokinetics and distribution/excretion of brevetoxins; physiological effects; toxicology

Toxic/Noxious Organisms Worked With
(*Pichodiscus*) *Gymnodinium breve*, *Gambierdiscus toxicus*

Toxins Worked With
Brevetoxins, ciguatera, saxitoxin

Years of Experience with Harmful Algae/Biotoxins
10

Where Worked
Gulf of Mexico, Florida, Caribbean Sea

Regional/International Program Participation
Interagency Task Force on Marine Biotoxins and Harmful Algal Blooms

Languages
English

Citizenship
United States

Postel, James R.

Research scientist
School of Oceanography
University of Washington
Box 357940
Seattle, WA 98195
United States

Telephone: 206-543-6141
Telex:
Fax: 206-543-0275
Email: INTERNET:
postel@ocean.washington.edu

Degrees
M.S.

General Expertise
Biology, ecology, monitoring, oceanography

Specialty
Field sampling; isolation and culture of marine phytoplankton; ecology and physiology of harmful algal species

Toxic/Noxious Organisms Worked With
Pseudonitzschia spp., *Heterosigma carterae*, *Alexandrium* spp.

Toxins Worked With
Domoic acid

Years of Experience with Harmful Algae/Biotoxins
5

Where Worked
Northeast Pacific Ocean, Puget Sound

Regional/International Program Participation

Languages
English, German

Citizenship
United States

Reid, Freda M.H.

Research scientist
Marine Life Research Group
Scripps Institution of Oceanography 0218
La Jolla, CA 92093-0218
United States

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Email:

Degrees
B.Sc.

General Expertise
biology, ecology, taxonomy

Specialty
Occurrence of *Pseudonitzschia* spp. off Southern California coast, 1991-1993; historical data prior to that

Toxic/Noxious Organisms Worked With
Pseudonitzschia australis, dinoflagellates

Toxins Worked With
Domoic acid

Years of Experience with Harmful Algae/Biotoxins
4

Where Worked
California, Central Pacific Gyre, Antarctic

Regional/International Program Participation
Monitoring programs, California Department of Health Services

Languages

Citizenship
United States

United States

Rensel, Jack (John E.)

Fisheries scientist
University of Washington
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United States

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Degrees
Ph.D.

General Expertise
Biology, ecology, physiology, fisheries, aquaculture, oceanography, limnology

Specialty
Bloom ecology and harmful algal species effects on finfish; HAB effects on aquaculture and mitigation methods; effects of nutrient pollution on harmful blooms

Toxic/Noxious Organisms Worked With
Chaetoceros sp., *Heterosigma akashiwo*, *Alexandrium catenella*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
8

Where Worked
Pacific Northwest U.S.

Regional/International Program Participation
Advisor to Washington Fish Growers Association

Languages
English, Spanish

Citizenship
United States

Rippey, Scott R.

Acting director
U.S. Public Health Service
U.S. Food and Drug Administration
Northeast Seafood Laboratory
CBC Building S-26, Davisville
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Degrees
Ph.D.

General Expertise
Public health

Specialty
Intoxications (historical) from shellfish and finfish ingestion (PSP, DSP, ASP, NSP, ciguatera) cases: dates, locations, agent (U.S. and international)

Toxic/Noxious Organisms Worked With

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
10

Where Worked

Regional/International Program Participation
Technical assistance to coastal states and certain countries regarding lab procedures for PSP analyses

Languages

Citizenship
United States

Roelke, Daniel L.

Ph.D. graduate student
Department of Oceanography
Texas A&M University
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United States

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Degrees
B.S., M.S.

General Expertise
Ecology, toxicology

Specialty
Domoic acid quantification; domoic acid effects on shellfish; basic biology of *Pseudonitzschia pungens*

Toxic/Noxious Organisms Worked With
Crassostrea virginica, *Pseudonitzschia pungens*

Toxins Worked With
Domoic acid

Years of Experience with Harmful Algae/Biotoxins

Where Worked
United States: Gulf of Mexico, Massachusetts Bay, Monterey Bay

Regional/International Program Participation

Languages
English

Citizenship
United States

United States

Ross, Maria R.

Research scientist
Biology Department
University of California-Los Angeles
405 Hilgard Ave.
Los Angeles, CA 90024
United States

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Email:

Degrees
Ph.D.

General Expertise
Biology, chemistry, physiology, toxicology

Specialty
Development of new bioassay for PSP toxins using the house fly, *Musca domestica*, as test organism; heterotrophy in red tide dinoflagellates; protein and DNA synthesis; molecular biology; incorporation of amino acids and nucleic acids; pigment analysis; symbiosis

Toxic/Noxious Organisms Worked With
Alexandrium catenella, *Alexandrium tamarense*, *Gonyaulax polyedra*, all molluscan bivalves that accumulate toxins

Toxins Worked With
Saxitoxin and its analogs, ciguatera

Years of Experience with Harmful Algae/Biotoxins
15

Where Worked
U.S. Pacific coast

Regional/International Program Participation
ICES WG on Phytoplankton

Languages
English, most Slavic languages, French, German

Citizenship
United States

Scheuer, Paul

Research scientist
University of Hawaii at Manoa
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United States

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Degrees
B.S., M.A., Ph.D.

General Expertise
Chemistry, toxicology

Specialty
Phenomena associated with ciguatera poisoning

Toxic/Noxious Organisms Worked With
Gambierdiscus toxicus, *Gymnothorax javanicus*

Toxins Worked With
Ciguatera toxin

Years of Experience with Harmful Algae/Biotoxins
35

Where Worked
Pacific, Polynesia

Regional/International Program Participation

Languages
English, German, French

Citizenship
United States

Scholin, Christopher

Postdoctoral fellow
Monterey Bay Aquarium
Research Institute
160 Central Ave.
Pacific Grove, CA 93950
United States

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Degrees
B.A., M.A., Ph.D.

General Expertise
Molecular biology

Specialty
Development of molecular methods for identifying and distinguishing among harmful algal species

Toxic/Noxious Organisms Worked With
Alexandrium sp., *Pseudonitzschia* sp.

Toxins Worked With
PSP, domoic acid

Years of Experience with Harmful Algae/Biotoxins

Where Worked
North America

Regional/International Program Participation

Languages
English

Citizenship
United States

Sellner, Kevin G.

Associate curator
The Academy of Natural Sciences
Benedict Estuarine Research Laboratory
Benedict, MD 20612
United States

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Degrees
B.S., M.S., Ph.D.

General Expertise
Biology, chemistry, ecology

Specialty
Ecology of dinoflagellate and cyanobacteria blooms; fate of bloom production

Toxic/Noxious Organisms Worked With
Prorocentrum minimum, *Gymnodinium uncatenum*, *Katodinium rotundatum*, *Cochlodinium heterolobatum*, *Nodularia spumigena*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
20

Where Worked
Eastern coast of North America, Gulf of Finland, Caribbean, coastal Peru

Regional/International Program Participation

Languages
English, French

Citizenship
United States

United States

Shumway, Sandra E.

Professor
Natural Science Division
Southampton College, LIU
Southampton, NY 11968
United States

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Degrees
B.S., Ph.D., D.Sc.

General Expertise
Biology, physiology, aquaculture, public health

Specialty
Effects of harmful algae on shellfish, aquaculture, and public health

Toxic/Noxious Organisms Worked With

Toxins Worked With
PSP, brown tide

Years of Experience with Harmful Algae/Biotoxins
10

Where Worked
United Kingdom, New Zealand, United States, Canada, Brazil

Regional/International Program Participation

Languages
English

Citizenship
United States

Smayda, Theodore J.

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Graduate School of Oceanography
University of Rhode Island
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United States

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Degrees
Dr. philos.

General Expertise
Ecology, physiology

Specialty
Field studies on red tide population dynamics; applied physiological and ecological experimentation; mesocosm experiments on red tide species, including assessing the role of nutrients, temperature, and grazing on bloom regulation

Toxic/Noxious Organisms Worked With
Aureococcus anophagefferens, *Heterosigma akashiwo*, *Phaeocystis pouchetti*, *Alexandrium tamarense*, *Cochlodinium heterolobatum*, *Prorocentrum* spp., *Pyrodinium bahamense*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins
30

Where Worked
Scandinavia, northeastern United States, Puerto Rico, Gulf of Panama, Baja California, Brazil, Northwest Africa

Regional/International Program Participation
ICES, IOC, SCOR Working Groups

Languages
English, Norwegian, Swedish, Danish, German, French

Citizenship
United States

United States

Smolowitz, Roxanna M.

Research associate
Laboratory for Marine Animal Health
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Degrees DVM

General Expertise

Toxicology, fisheries, aquaculture, veterinary medicine, pathology

Specialty

Effects of toxic algae on bivalves, fish and other invertebrates

Toxic/Noxious Organisms Worked With

Prorocentrum spp., *Gymnodinium* spp.

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

3

Where Worked

Northeast United States

Regional/International Program Participation

Languages

English

Citizenship

United States

Somerset, Ira

Regional shellfish specialist
U.S. Food and Drug Administration
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Degrees B.S., M.S.

General Expertise

Public health

Specialty

Administration and development of control programs

Toxic/Noxious Organisms Worked With

Alexandrium in clams and mussels

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

20

Where Worked

U.S., Korea, and Japan

Regional/International Program Participation

National Shellfish Sanitation Program

Languages

English, French

Citizenship

United States

Steldinger, Karen Andrea

Senior research scientist
Florida Marine Research Institute
Florida Department
of Environmental Protection
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Email: OMNET: d.flamri

Degrees

A.A., B.A., M.A., Ph.D.

General Expertise

Biology, ecology, taxonomy, fisheries, management

Specialty

Toxic dinoflagellate taxonomy, life cycles, and ecology

Toxic/Noxious Organisms Worked With

Gymnodinium breve, *Gymnodinium miki-motoi*, *Gambierdiscus toxicus*, *Ostreopsis* spp., *Prorocentrum* spp., *Alexandrium* spp., *Pfiestria* spp.

Toxins Worked With

Brevetoxins

Years of Experience with Harmful Algae/Biotoxins

30

Where Worked

Gulf of Mexico, Caribbean, North Atlantic, Mediterranean

Regional/International Program Participation

Gulf of Mexico, Florida Bay, and western North Atlantic monitoring and response projects

Languages

English, Spanish, French

Citizenship

United States

Stockwell, Dean

Research scientist
Marine Science Institute
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United States

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Degrees

B.S., M.S., Ph.D.

General Expertise

Biology, taxonomy, toxicology

Specialty

Marine phytoplankton; brown and red tides in Texas waters; ecological experimentation

Toxic/Noxious Organisms Worked With

Aureococcus sp., *Gymnodinium* breve, *Mulina lateralis*, *Alexandrium* minutum

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

8

Where Worked

Gulf of Mexico

Regional/International Program Participation

Languages

English, German, Russian

Citizenship

United States

United States

Swift, Eiljah

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OMNET: e.swift

Degrees

B.A., M.A., Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Ecology and physiology of marine dinoflagellates, including some toxic species; cyst germination; bioluminescence

Toxic/Noxious Organisms Worked With

Protogonyaulax excavata

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

15

Where Worked

North Atlantic

Regional/International Program Participation

Languages

English, French, German

Citizenship

United States

Templeton, Charles

Associate director
U.S. Army Medical Research
and Development Command
SGRD-PLF (attn: Dr. Templeman)
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United States

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Degrees

D.V.M., Ph.D., DABT

General Expertise

Physiology, toxicology, veterinary medicine

Specialty

Bench research (whole animal) in brevetoxin (*P. brevis*) and microcystin-LR (*Microcystis aeruginosa*); prevention and treatment of various marine and algal toxemias

Toxic/Noxious Organisms Worked With

Microcystis aeruginosa, *Ptychodiscus brevis*

Toxins Worked With

Microcystin-LR

Years of Experience with Harmful Algae/Biotoxins

5

Where Worked

U.S. East Coast

Regional/International Program Participation

Society of Toxicology; International Society on Toxicology; International Symposium on Red Tides

Languages

English

Citizenship

United States

United States

Tester, Patricia A.

Research oceanographer
NOAA/NMFS
Southeast Fisheries Science Center
Ecology Division
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Beaufort, NC 28516-9722
United States

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Degrees

B.S., M.S., Ph.D.

General Expertise

Biology, ecology, fisheries

Specialty

Field bloom ecology, geographic distribution, transport mechanisms, sampling, and counting

Toxic/Noxious Organisms Worked With

Gymnodinium breve, *Pfiesteria piscimorte*

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

7

Where Worked

Microalgae of the Adriatic

Regional/International Program Participation

Languages

French

Citizenship

United States

Tindall, Donald R.

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Degrees

Ph.D.

General Expertise

Biology, ecology, taxonomy, physiology, toxicology

Specialty

Organisms and toxins responsible for ciguatera and diarrhetic shellfish poisoning; culture of isolates of toxic dinoflagellates; growth and development related to toxin production in species of *Gambierdiscus*, *Prorocentrum*, *Ostreopsis*, *Coolia*, *Amphidinium*, and *Gymnodinium*

Toxic/Noxious Organisms Worked With

Gambierdiscus toxicus, *Prorocentrum lima*, *P. concavum*, *P. hoffmannianum*, *Ostreopsis* sp.

Toxins Worked With

Ciguatoxins, maitotoxins, okadaic acid and its derivatives

Years of Experience with Harmful Algae/Biotoxins

16

Where Worked

Atlantic Ocean, Gulf of Mexico, Caribbean, tropical and subtropical Pacific

Regional/International Program Participation

Languages

English

Citizenship

United States

Tomas, Carmelo

Research administrator
Florida Marine Research Institute
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St. Petersburg, FL 33701-5095
United States

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Fax: 813-823-0166
Email: OMNET: d.flamri

Degrees

B.A., M.S., Ph.D.

General Expertise

Biology, ecology, taxonomy, physiology

Specialty

Physiological ecology of toxic species; bloom dynamics; physiology and ecology of toxin production and regulation; detection of toxins in natural environments; trophic transfer of toxins

Toxic/Noxious Organisms Worked With

Gymnodinium breve, *Prorocentrum* sp., *Gambierdiscus toxicus*, *Coolia monotis*, *Ostreopsis* sp., *Heterosigma*, *Olisthodiscus* sp.,

Toxins Worked With

Brevetoxins, okadaic acid

Years of Experience with Harmful Algae/Biotoxins

18

Where Worked

Northeastern U.S., Sargasso Sea, Mediterranean Sea, Gulf of Mexico

Regional/International Program Participation

EPA GOMEX Program; IOC HABS; Central America PAHO (Guatemala, Venezuela)

Languages

English, Italian, French, Spanish

Citizenship

United States

Tosteson, Thomas R.

Professor/research scientist
Universidad de Puerto Rico-Mayagüez
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Degrees

Ph.D.

General Expertise

Chemistry, physiology, toxicology

Specialty

Role of toxic benthic dinoflagellates in the ciguatera food chain in the northeastern and eastern Caribbean

Toxic/Noxious Organisms Worked With

Ostreopsis lenticularis

Toxins Worked With

Benthic dinoflagellates, ciguatera

Years of Experience with Harmful Algae/Biotoxins

10

Where Worked

Caribbean basin

Regional/International Program Participation

Puerto Rico Tropical Marine Biotechnology Center

Languages

English, Spanish

Languages

United States

United States

Trainer, Vera L.

Senior fellow
School of Medicine
Department of Pharmacology SJ-30
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United States

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Degrees

B.S., M.S., Ph.D.

General Expertise

Biology, toxicology, biochemistry

Specialty

Development of toxin test kits using ELISA technique; biochemical localization of toxin receptor sites

Toxic/Noxious Organisms Worked With

P. brevis

Toxins Worked With

brevetoxins

Years of Experience with Harmful Algae/Biotoxins

8

Where Worked

Southeast United States, Northwest United States

Regional/International Program Participation

Languages

English, German

Citizenship

United States

Van Dolah, Frances M.

Research scientist
Marine Biotoxins Program
National Marine Fisheries Service
Southeast Fisheries Science Center
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217 Johnson Ferry Rd.
Charleston, SC 29412
United States

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Fax: 803-762-1998
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Degrees

Ph.D.

General Expertise

Biology, chemistry, toxicology

Specialty

Molecular pharmacology of marine biotoxins including mechanisms of action of various toxins, working with *in vitro* mammalian cell culture models; currently concentrating on development of high-throughput detection methods based on toxin mechanisms of action

Toxic/Noxious Organisms Worked With

Gambierdiscus toxicus

Toxins Worked With

Maitotoxin, ciguatoxin, okadaic acid, domoic acid

Years of Experience with Harmful Algae/Biotoxins

4

Where Worked

Regional/International Program Participation

Languages

English

Citizenship

United States

United States

Villac, Maria Cella

Ph.D. graduate student
Department of Oceanography
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United States

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mcv2426@zeus.tamu.edu

Degrees

M.Sc., B.S.

General Expertise

Ecology, taxonomy, monitoring

Specialty

Phytoplankton population dynamics; community structure approach from field studies; culture work with diatoms for morphological variations and growth requirements; monitoring programs using phytoplankton to assess environmental changes; synecology of *Pseudonitzschia*

Toxic/Noxious Organisms Worked With

Pseudonitzschia

Toxins Worked With

Domoic acid

Years of Experience with Harmful Algae/Biotoxins

10

Where Worked

Guanabara Bay and Angra dos Reis Bay (Rio de Janeiro, Brazil); Monterey Bay, California

Regional/International Program Participation

Languages

Portuguese, English, French, Spanish

Citizenship

Brazil

Villareal, Tracy

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Environmental Sciences
University of Massachusetts
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villareal@umb.edu
OMNET: t.villareal

Degrees

B.S., M.S., Ph.D.

General Expertise

Biology

Specialty

Culture of *Pseudonitzschia* spp. for laboratory growth experiments

Toxic/Noxious Organisms Worked With

Toxic diatoms, *Pseudonitzschia*

Toxins Worked With

Domoic acid

Years of Experience with Harmful Algae/Biotoxins

2

Where Worked

Northeastern United States

Regional/International Program Participation

Languages

English

Citizenship

United States

Walz, Peter

Graduate student
Institute of Marine Sciences
University of California, Santa Cruz
Santa Cruz, CA 95064

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pwalz@cats.ucsc.edu

Degrees

B.A., M.S.

General Expertise

Biology, monitoring

Specialty

Domoic acid and *Pseudonitzschia* sp. occurring in Monterey Bay, California; environmental conditions associated with *Pseudonitzschia* blooms

Toxic/Noxious Organisms Worked With

Pseudonitzschia diatoms, in particular *P. australis*

Toxins Worked With

Domoic acid

Years of Experience with Harmful Algae/Biotoxins

2

Where Worked

West Coast of North America; Antarctica/southern ocean

Regional/International Program Participation

Languages

Spanish, Italian

Citizenship

United States

Watkins, William

FDA national expert for shellfish laboratories and science
USFDA, Northeast Seafood Laboratory
Shellfish Sanitation Branch
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North Kingstown, RI 02852
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Telex:
Fax: 401-528-5278
Email:

Degrees

Ph.D.

General Expertise

Public health, management, commercial shellfish

Specialty

Official analytical methodologies for shellfish control authorities; administration and development of control programs

Toxic/Noxious Organisms Worked With

All molluscan bivalves harvested commercially in the United States

Toxins Worked With

Saxitoxins

Years of Experience with Harmful Algae/Biotoxins

9

Where Worked

Northeastern United States

Regional/International Program Participation

Northeast shellfish Sanitation Association; Interstate Shellfish Sanitation Conference

Languages

English, French

Citizenship

United States

United States

Wekell, John Charles

Research chemist
National Marine Fisheries Service
Northwest Fisheries Science Center
2725 Montlake Blvd.
Seattle, WA 98112
United States

Telephone: 206-860-3388
Telex:
Fax: 206-860-3394
Email:

Degrees

Ph.D.

General Expertise

Chemistry, toxicology, fisheries, aquaculture, public health, management

Specialty

PSP in Alaska, Washington, Oregon, and California; analytic methods, occurrence, food web interactions during domoic acid outbreaks; domoic acid content of clams and crab; ciguatera poisoning in Caribbean and Pacific; analytical methodology for domoic acid, PSP, and Ciguatera toxins

Toxic/Noxious Organisms Worked With

Pseudonitzschia sp., razor clams, clams, crab, *Gonyaulax* sp.

Toxins Worked With

Domoic acid, PSP, ciguatera, DSP

Years of Experience with Harmful Algae/Biotoxins

25

Where Worked

Caribbean Sea, Eastern Pacific, Central Pacific

Regional/International Program Participation

International Conference on Toxic Phytoplankton; NMFS National Plan on Harmful Algae and Toxins

Languages

French, Spanish, German

Citizenship

United States

Wekell, Marleen Marie

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Research Center
U.S. Food and Drug Administration
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Degrees

B.Sc., M.S., Ph.D.

General Expertise

Chemistry, fisheries, aquaculture, public health, monitoring, biochemistry

Specialty

Development of methods to detect PSP toxins, ciguatera toxins, brevetoxins, tetrodotoxins, domoic acid

Toxic/Noxious Organisms Worked With

Molluscan shellfish of the Pacific Northwest

Toxins Worked With

Alexandrium, *Heterostigma*

Years of Experience with Harmful Algae/Biotoxins

Where Worked

United States Pacific Northwest

Regional/International Program Participation

FDA programs; United States monitoring programs at the state level

Languages

English, French

Citizenship

United States

United States

White, Alan W.

Associate professor
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and Environmental Protection
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awhite@mma.mass.edu

Degrees

B.S., M.A., Ph.D.

General Expertise

Biology, ecology, physiology, toxicology, fisheries, aquaculture, public health, management

Specialty

Physiological ecology of growth and toxin production in *Alexandrium*; biology and population dynamics of dinoflagellates; uptake and elimination of *Alexandrium* toxins by shellfish; fate of paralytic shellfish toxins in the marine food web; aquaculture; public health; dinoflagellate toxins and marine mammal mortalities; management of shellfish intoxication events

Toxic/Noxious Organisms Worked With

Alexandrium fundyense (excavatum), shellfish, zooplankton, finfish

Toxins Worked With

Paralytic shellfish toxins

Years of Experience with Harmful Algae/Biotoxins

23

Where Worked

Bay of Fundy (Eastern Canada), northeastern United States; Japan (Seto Inland Sea); Israel (brackish fish ponds)

Regional/International Program Participation

Co-leader of ICES National Coordinating Center for Exchange of Information on Exceptional Plankton Blooms

Languages

English, Japanese, German

Citizenship

Whitledge, Terry

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Marine Science Institute
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terry@utmsi.zo.utexas.edu

Degrees

Ph.D.

General Expertise

Biology, chemistry, ecology

Specialty

Brown tide in South Texas; initial bloom conditions and maintenance of bloom

Toxic/Noxious Organisms Worked With

Abberant type III chrysophyte (not named)

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

5

Where Worked

Peru coast, North Pacific, Bering Sea, Arctic Ocean, North Atlantic, and Mediterranean Sea

Regional/International Program Participation

NOAA Harmful Algal Bloom Committee

Languages

English, Russian

Languages

United States

Wikfors, Gary H.

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United States

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Degrees

B.S., M.S.

General Expertise

Biology, aquaculture

Specialty

Monitoring coastal waters for potentially harmful phytoplankton; culturing dinoflagellates and other algal taxa; conducting experimental exposures of bivalve molluscs to cultured algae

Toxic/Noxious Organisms Worked With

Prorocentrum and *Gymnodinium*; oysters, clams, scallops

Toxins Worked With

Years of Experience with Harmful Algae/Biotoxins

6

Where Worked

Northeastern coast of the United States, especially Long Island

Regional/International Program Participation

ICES WG on phytoplankton and management of their effects

Languages

English, French

Citizenship

United States

Work, Thierry

U.S. Department of the Interior
U.S. National Biological Survey
National Wildlife Health
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Degrees

M.S., D.V.M., M.P.V.M.

General Expertise

Physiology, veterinary medicine

Specialty

Epizootics of marine toxin poisoning in free-ranging marine birds and mammals

Toxic/Noxious Organisms Worked With

Pseudonitzschia australis

Toxins Worked With

Domoic acid/PSP

Years of Experience with Harmful Algae/Biotoxins

2

Where Worked

California, Hawaii

Regional/International Program Participation

Languages

English, French, Spanish

Languages

United States

United States

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Degrees

Ph.D.

General Expertise

Toxicology

Specialty

Mechanisms of action of dinoflagellate toxins on ion channels and ion pumps and developing therapeutic antidotes to the toxins

Toxic/Noxious Organisms Worked With

Toxins Worked With

Saxitoxin, gonyautoxins, brevetoxin, maitotoxin, *Prymnesium* toxins

Years of Experience with Harmful Algae/Biotoxins

25

Where Worked

Regional/International Program Participation

Languages

English, Taiwanese, Chinese

Citizenship

United States

Yentsch, Charles

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Degrees

B.S., M.S., Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Oceanographic factors affecting the formation of blooms

Toxic/Noxious Organisms Worked With

Alexandrium tamarense, *Ptychodiscus brevis*

Toxins Worked With

PSP

Years of Experience with Harmful Algae/Biotoxins

15

Where Worked

North Atlantic, Florida

Regional/International Program Participation

Languages

English, German, Spanish

Citizenship

United States

United States

Paerl, Hans

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Degrees

Ph.D.

General Expertise

Biology, ecology, physiology

Specialty

Cyanobacterial and dinoflagellate
bloom dynamics; microbial ecology
and physiology of blooms;
environmental control of blooms

Toxic/Noxious Organisms

Worked With

Anabaena spp., *Microcystis* spp.,
Aphanizomenon spp.

Toxins Worked With

(Indirectly) Microcystins, aphanotoxins,
anatoxins

Years of Experience with

Toxic Algae/Biotoxins

20

Where Worked

New Zealand, North America, Pacific
Islands

Regional/International

Program Participation

USA-HAB initiative

Languages

English, Dutch, Spanish, some German

Citizenship

United States

Uruguay

Méndez Calicchio, Silvia M.

Research scientist
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Degrees

Lisc.

General Expertise

Ecology, taxonomy, public health

Specialty

Monitoring harmful algae; dinoflagellate
taxonomy

Toxic/Noxious Organisms Worked With

Alexandrium tamarense, *Gymnodinium*
catenatum, *Dinophysis acuminata*

Toxins Worked With

PSP, DSP

Years of Experience with Harmful Algae/Biotoxins

7

Where Worked

Uruguay

Regional/International Program Participation

Comision Tecnica Mixta del Frente Mari-
timo; evaluation of HABs in Argentina and
Uruguay

Languages

Spanish, English, Portuguese

Citizenship

Uruguay, Italy

Venezuela

La Barbera Sanchez, Amelia

Research scientist, chief of toxicology
Fondo Nacional de Investigaciones
Agropecuarias (FONAIAP)
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Caiguire Apartado 236
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Venezuela

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Degrees

M.Sc.

General Expertise

Ecology, taxonomy, toxicology, public
health, management

Specialty

Experience in ecology of marine phy-
toplankton, identification and quantifica-
tion of bloom-forming organisms, imple-
mentation of toxicity monitoring pro-
grams, detection of saxitoxin, and culture
of toxic dinoflagellates

Toxic/Noxious Organisms Worked With

Alexandrium tamarense, *Gymnodinium*
catenatum, *Arca zebra*, *Perna perna*,
Tivela, *Ostrea*

Toxins Worked With

Saxitoxin, limited work on ciguatera and
tetrodotoxin

Years of Experience with Harmful Algae/Biotoxins

11

Where Worked

Southeastern Caribbean

Regional/International Program Participation

Regional management program in marine
toxins and international HAB program

Languages

Spanish, English

Citizenship

Venezuela

Sevcik, Carlos

Laboratory head
Instituto Venezolano
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Degrees

M.D., Ph.D.

General Expertise

Physiology, toxicology

Specialty

Bioassay, isolation, purification, and iden-
tification of marine toxins

Toxic/Noxious Organisms Worked With

Gonyaulax sp., *Ceratium* sp.

Toxins Worked With

Toxins from *Ceratium furea*, saxitoxins

Years of Experience with Harmful Algae/Biotoxins

20

Where Worked

Caribbean Sea

Regional/International Program Participation

Languages

Spanish, English

Citizenship

Venezuela

Vietnam

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Vietnam

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Email:

Degrees

General Expertise

Ecology, taxonomy, toxicology

Specialty

I am a new research scientist on toxic
phytoplankton

Toxic/Noxious Organisms Worked With

Toxins Worked With
PSP, DSP

Years of Experience with
Toxic Algae/Biotoxins

Where Worked
Vietnam

Regional/International
Program Participation

Languages
Vietnamese, English

Citizenship
Vietnam

Thuoc, Chu-Van

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Degrees

B.S.

General Expertise

Biology, ecology, taxonomy

Specialty

Marine phytoplankton in marine,
coastal and estuarine ecosystems

Toxic/Noxious Organisms Worked With

Rhizosolenia alata, *Chaetoceros* spp.,
Pseudonitzschia pungens, *Ceratium*
spp., *Dinophysis* spp., *Gymnodinium*
spp.

Toxins Worked With

Years of Experience with
Toxic Algae/Biotoxins
5

Where Worked

Tonkin Gulf, river mouths and estuaries
in North Vietnam

Regional/International
Program Participation

Languages
English

Citizenship
Vietnam

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