

BIOGRAPHICAL SKETCH

MARTHA FERRARIO

PERSONAL INFORMATION

Name: Ferrario, Martha Elba

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EDUCATION

Bachelor of Science in Botany 1967 National University of La Plata, Argentina

Ph D in Natural Sciences, Botany 1980 National University of La Plata, Argentina

EMPLOYMENT

Professor, Botany, Taxonomy I, National University of La Plata, August 1989 to present.

Senior Scientist, National Research Council for Science and Technology (CONICET) December 1999 to present.

Phycology Department Head, Phycology, Natural Museum of Science, National University of La Plata, October 1989 to present.

POST-GRADUATE EDUCATION

Participation in national and international meetings, workshops and colloquia. Through fellowships from UNESCO, Organization of American States, University of Buenos Aires, University of La Plata and others, participation in numerous courses to improve knowledge on phytoplankton, oceanography, taxonomy, algae ecology and ultrastructure, primary production, water pollution, electron microscopy, and lately biology and taxonomy of harmful algal blooms.

Teaching of post-graduate courses in Argentina and Latin America on marine biology, morphology, anatomy and algae with commercial interest. In addition, teaching of international courses on biodiversity, marine phytoplankton and toxic diatoms.

RESEARCH INTERESTS

Publication of more than 80 research articles on marine diatoms including three book chapters and Editor in four books.

PUBLICATIONS (2003-PRESENT)

2003 Composition and biomass of phytoplankton assemblages in coastal Antarctic waters: a comparison of chemotaxonomic and microscopic analyses. Garibotti, I.; M. Vernet & M. Ferrario. *Marine Ecology Progress Series* 247: 27-42.

2003 *Algas tóxicas y su relación con el hombre*. Ferrario M. En: Memorias Curso Internacional Algas. *Universidad de Magallanes* (Ed.), Chile: 119-126. Divulgación-docencia.

2003 *Nuevos registros de diatomeas típicas de sedimento, en el plancton de la costa del mar argentino*. Ferrario M., G. Almandoz, I. Garibotti y S. Licea. *Bol. Soc. Arg. Bot.* 38 (1-2): 123-129.

- 2003 *Phytoplankton spatial distribution patterns along the western Antarctic Peninsula (Southern Ocean)*. Irene A. Garibotti, María Vernet, Martha E. Ferrario, Raymond C. Smith, Robin M. Ross, Langdon B. Quetin. *Mar. Ecol Prog. Ser.* 261:21-39
- 2004 *Morphological study of the marine planktonic diatom Chaetoceros castracanei Karsten from Antarctic waters, with data on abundance and possible taxonomic relationships*. M. Ferrario, D. Hernández-Becerril, & I. Garibotti. *Botanica Marina* 47(4):349-355.
- 2004 *Species of Pseudo-nitzschia in the Drake Passage (54 - 61° S to 46 - 64°)*. Ferrario, M., S. Licea, C. F. Balestrini and G. Ferreyra. In K. A. Steidinger, J. H. Landsberg, C. Tomas and G. Vargo (eds.) *Harmful Algae 2002. Florida Fish and Wildlife Conservation Commission, Florida Institute of Oceanography, and Intergovernmental Oceanographic Commission of UNESCO, St. Petersburg, Florida, USA: 434-436.*
- 2005 *Interannual variability in the distribution of the phytoplankton standing stock across the seasonal sea-ice zone West of the Antarctic Peninsula*. Garibotti I., M. Vernet, R. Smith & M. Ferrario. *Journal of Plankton Research*, 27(8): 825-843.
- 2005 *Annually recurrent phytoplanktonic assemblages during summer in the seasonal ice zone west of the Antarctic Peninsula (Southern Ocean)*. Garibotti I., M. Vernet & M. Ferrario. *Deep-Sea Research Part I*, 52: 1823-1841.
- 2005 *Palmer LTER: Microscopic analysis of ice assemblages in new-year sea ice in the Western Antarctic Peninsula, June-July 1999*. Ferrario, M., I. Garibotti & M. Vernet. *Antarctic Journal of the United States*, 33: 242-244.
- 2006 *Species of the genus Pseudo-nitzschia (Bacillariophyceae) in Antarctic waters: morphology and distribution*. Ferrario, M. & S. Licea. *Nova Hedwigia Beih.* 130: 1-16. Número especial dedicado al Prof. Dr. F. Round.
- 2006 *Ultraviolet B radiation effects on structure and function of lower levels of the marine planktonic food web*. Ferreyra G.; B. Mostajir; S. Demers; I. Schloss; K. Chatila; M. Ferrario; S. Peggy; S. Roy; J. Prod'homme. Special volume of *Photochemistry & Photobiology*, 82: 887-897.
- 2006 *Effects of Enhanced UV-B on Phytoplankton Biomass and Composition of Mesocosm-Enclosed Natural Marine Communities from Three Latitudes*. Roy, S.; B. Mohovic; S. Giancesella; I. Schloss; M. Ferrario; S. Demers Special volume of *Photochemistry & Photobiology*, 82: 909-922.
- 2007 *The genus Pseudo-nitzschia (Bacillariophyceae) in continental shelf waters of Argentina (Southwestern Atlantic Ocean, 38-55°S)*. Almandoz G., Ferrario M., Ferreyra G., Schloss I., Esteves J. & F. Paparazzo. *Harmful Algae*, 6: 93-103.
- 2007 *Role of plankton communities in pCO₂ sea-air variation in the southwestern Atlantic Ocean*. Schloss I.; G. Ferreyra; M. Ferrario; G. Almandoz; R. Codina; A. Bianchi, C. Balestrini; H. Ochoa; D. Ruiz Pino; A. Poisson. *Mar. Ecol. Prog.* 332: 93-106.
- 2007 *First detection of Domoic Acid produced by Pseudo-nitzschia species, Chubut coastal waters (Patagonia, Argentina)*. Sastre, V., N. Santinelli, G. Marino, M. Solís, L. Pujato & Ferrario. *Harmful Algae News* 34: 12-14.
- 2008 *Distribution and ecology of Pseudo-nitzschia species (Bacillariophyceae) in surface waters of the Weddell Sea (Antarctica)*. Almandoz G., G. A. Ferreira, I. R. Schloss,

A. I. Dogliotti, V. Rupolo, F. E. Paparazzo, J. L. Esteves & **M. E. Ferrario**. *Polar Biology* 31: 429-442.

- 2008 Species of the genus *Coscinodiscus* (Bacillariophyta) from the Gulf of Mexico, Argentina and Antarctic waters: morphology and distribution. M. Ferrario; *Licea S.*, Almandoz G. & I. Garibotti en *Nova Hedwigia, Beih.* 133: 187-216.


OTHER SCIENTIFIC ACTIVITIES

Participation in meetings, Panel Member in CONICET, journal reviewer, PhD thesis committee member and PhD thesis advisor.

Participation as Principal Investigator in national and international research projects.

HUMAN RESOURCES

Thesis advisor in undergraduate, master and PhD theses (6). Mentoring of doctoral and post-doctoral fellows.



Dra. Martha Ferrario