

Diana Sarno



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Current Position: tecnologo III livello (technologist)

Current Affiliation:

Section Integrated Marine Ecology, Stazione Zoologica Anton Dohrn, Napoli, Italy

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Biological Sciences, University Federico II, Napoli, Italy	Laurea	1987	Ecology of phytoplankton
Private Company Bioservice, Napoli, Italy	Member	1988-1994	Environmental impact studies
Stazione Zoologica Anton Dohrn, Napoli, Italy	Collaboration on projects	1989-1994	Phytoplankton taxonomy and distribution (Fusaro lagoon, Magellan Strait)
Stazione Zoologica Anton Dohrn, Napoli, Italy	Technologist	1994-present	Phytoplankton ecology and taxonomy

Appointments and awards

1998-99 and 1999-2000: Teaching the course on Marine Ecology at the University of Salerno, Italy

2005: Winner of the Provasoli Award for authoring outstanding papers in Journal of Phycology:

i) Zingone A, Percopo I, Sims PA, Sarno D (2005). Journal of Phycology 41: 140-150

ii) Sarno D, Kooistra WCHF, Medlin LK, Percopo I, Zingone A (2005). Journal of Phycology 41: 151-176

2005: Faculty of 1000 highlight for the two above mentioned papers (MUST READ)

2005-2010: Coordinator of the Taxonomy and Identification Marine Phytoplankton

January 2010-June 2010: Coordinator of the Electron Microscopy and Confocal Microscopy Services
2010: Faculty of 1000 highlight (RECOMMENDED) for the paper:

Zingone A, Dubroca L, Iudicone D, Margiotta F, Corato F, Ribera d'Alcalà M, Saggiomo V, Sarno D (2010). *Estuaries and Coasts* 33: 342-361

Organizer and teacher of the International Phytoplankton Course, Taxonomy and Systematics in 1995, 1998, 2005, 2008, 2012, 2015

Member of the faculty of the “Marine Phytoplankton Training Course”, organized by The Sir Alister Hardy Foundation for Ocean Science (SAHFOS) and Marine Biological Association (MBA) (Plymouth, UK, 2009, 2012, 2014)

Scientific coordinator and teacher of EU-INCOMMMET Training Course on Taxonomy of Mediterranean Toxic Algae (Napoli, 2013)

Member of the Faculty of the “Taxonomy and Ecology of Marine Phytoplankton Course”, Kuwait Institute for Scientific Research, (Kuwait, 2014)

Editor and author of the “Diatom” section of the Website on Mediterranean Phytoplankton (SZN portal)
Associate Editor of the international journal “Cryptogamie-Algologie” since 2008

Other

Participant in two EU-funded projects and six Italian projects

Coordinator of EU-ASSEMBLE/JRA2-WP14

Students' Supervision

Supervisor of 4 Master's students and 4 PhD students

Director of study of 1 PhD student

Publications

Author of 40 publications on ISI-journals (h index: 18) and 2 book chapters

List of publications of the last 10 years (2005-present):

Cerino F, Orsini L, Sarno D, Dell'Aversano C, Tartaglione L, Zingone A (2005) The alternation of different morphotypes in the seasonal cycle of the toxic diatom *Pseudo-nitzschia galaxiae*. *Harmful Algae* 4: 33-48.

Sarno D, Kooistra WCHF, Medlin LK, Percopo I, Zingone A (2005) Diversity in the genus *Skeletonema* (Bacillariophyceae). II. An assessment of the taxonomy of *S. costatum*-like species, with the description of four new species. *Journal of Phycology* 41: 151-176.

Zingone A, Percopo I, Sims PA, Sarno D (2005) Diversity in the genus *Skeletonema* (Bacillariophyceae). I. A re-examination of the type material of *Skeletonema costatum*, with the description of *S. grevillei* sp. nov. *Journal of Phycology* 41: 140-150.

Zingone A, Siano R, Sarno D (2005) Microalghe potenzialmente tossiche nelle acque costiere della Campania. *Rapporti ISTISAN* 05/29: 98-111.

Carotenuto Y, Ianora A, Di Pinto M, Sarno D, Miralto A (2006) Annual cycle of early developmental stage survival and recruitment in the copepods *Temora stylifera* and *Centropages typicus*. *Marine Ecology Progress Series* 314: 227-238.

- Siano R, Sarno D, Sasso A, Zingone A (2006) Distribuzione spaziale delle specie fitoplanctoniche potenzialmente dannose delle coste della Regione Campania. In: Capobianco L, DGS, Saggiomo V., Zucaro E., editors. Gestione e Tutela dell'Ambiente Marino-Costiero in Campania. Napoli. pp. 41-51.
- Siano R, Zingone A, Sarno D (2006) Le comunità fitoplanctoniche della regione Campania. In: Capobianco L, DGS, Saggiomo V., Zucaro E., editors. Gestione e Tutela dell'Ambiente Marino-Costiero in Campania. Napoli. pp. 29-39.
- Zingone A, Natale F, Biffali E, Borra M, Forlani G, Sarno D (2006) Diversity in morphology, infectivity, molecular characteristics and induced host resistance between two viruses infecting *Micromonas pusilla*. *Aquatic Microbial Ecology* 45: 1-14.
- Zingone A, Siano R, D'Alelio D, Sarno D (2006) Potentially toxic and harmful microalgae from coastal waters of the Campania region (Tyrrhenian Sea, Mediterranean Sea). *Harmful Algae* 5: 321-337.
- McDonald SM, Sarno D, Scanlan DJ, Zingone A (2007) Genetic diversity of eukaryotic ultraphytoplankton in the Gulf of Naples during an annual cycle. *Aquatic Microbial Ecology* 50: 75-89.
- McDonald SM, Sarno D, Zingone A (2007) Identifying *Pseudo-nitzschia* species in natural samples using genus-specific PCR primers and clone libraries. *Harmful Algae* 6: 849-860.
- Sarno D, Kooistra WHCF, Balzano S, Hargraves PE, Zingone A (2007) Diversity in the genus *Skeletonema* (Bacillariophyceae): III. Phylogenetic position and morphological variability of *Skeletonema costatum* and *Skeletonema grevillei*, with the description of *Skeletonema ardens* sp. nov. *Journal of Phycology* 43: 156-170.
- Kooistra WHCF, Sarno D, Balzano S, Gu H, Andersen RA, Zingone A (2008) Global diversity and biogeography of *Skeletonema* species (Bacillariophyta). *Protist* 159: 177-193.
- Sánchez GE, Sarno D, Montresor M, Siano R, Lange CB (2009) Germinación de estados de resistencia de diatomeas y dinoflagelados en sedimentos marinos de dos Áreas de Surgencia de Chile. *Gayana Botánica* 66: 239-255.
- D'Alelio D, Ribera d'Alcalà M, Dubroca L, Sarno D, Zingone A, Montresor M (2010) The time for sex: a biennial life cycle in a marine planktonic diatom. *Limnology and Oceanography* 55: 106-114.
- Kooistra WHCF, Sarno D, Hernández-Becerril DU, Assmy P, Di Prisco C, Montresor M (2010) Comparative molecular and morphological phylogenetic analyses of taxa in the Chaetocerotaceae (Bacillariophyta). *Phycologia* 5: 471-500.
- Naik RK, Sarno D, Kooistra WHCF, D'Costa PM, Anil AC (2010) *Skeletonema* (Bacillariophyceae) in Indian waters: a reappraisal. *Indian Journal of Marine Sciences* 39: 290-293.
- Sarno D, Zingone A, Montresor M (2010) A massive and simultaneous sex event of two *Pseudo-nitzschia* species. *Deep Sea Research Part II: Topical Studies in Oceanography* 57: 248-255.
- Zingone A, Dubroca L, Iudicone D, Margiotta F, Corato F, Ribera d'Alcalà M, Saggiomo V, Sarno D (2010) Coastal phytoplankton do not rest in winter. *Estuaries and Coasts* 33: 342-361.
- Balzano S, Sarno D, Kooistra WHCF (2011) Effects of salinity on the growth rate and morphology of ten *Skeletonema* strains *Journal of Plankton Research* 33: 937-945
- Percopo I, Siano R, Cerino F, Sarno D, Zingone A (2011) Phytoplankton diversity during the spring bloom in the northwestern Mediterranean Sea. *Botanica Marina* 54: 243-267.
- Zingone A, Sarno D, Siano R, Marino D (2011) The importance and distinctiveness of small-sized phytoplankton in the Magellan Straits. *Polar Biology* 34: 1269-1284.
- Balzano S, Gourvil P, Siano R, Chanoine M, Marie D, Lessard S, Sarno D, Vaultot D (2012) Diversity of cultured photosynthetic flagellates in the northeast Pacific and Arctic Oceans in summer. *Biogeosciences* 9: 4553-4571.
- Bosak S, Pletikapić G, Hozić A, Svetličić V, Sarno D, Viličić D (2012) A novel type of colony formation in marine planktonic diatoms revealed by atomic force microscopy. *PLoS ONE* 7: e44851.

- Degerlund M, Huseby S, Zingone A, Sarno D, Landfald B (2012) Functional diversity in cryptic species of *Chaetoceros socialis* Lauder (Bacillariophyceae). *Journal of Plankton Research* 34: 416-431.
- Barra L, Ruggiero MV, Sarno D, Montresor M, Kooistra WCHF (2013) Strengths and weaknesses of microarray approaches to detect *Pseudo-nitzschia* species in the field. *Environmental Science and Pollution Research* 20: 6705-6718.
- Montresor M, Di Prisco C, Sarno D, Margiotta F, Zingone A (2013) Diversity and germination patterns of diatom resting stages at a coastal Mediterranean site. *Marine Ecology Progress Series* 484: 79-95.
- Percopo I, Siano R, Rossi R, Soprano V, Sarno D, Zingone A (2013) A new potentially toxic *Azadinium* species (Dinophyceae) from the Mediterranean Sea, *A. dexteroporum* sp. nov. *Journal of Phycology* 49: 950-966.
- D'Alelio D, Mazzocchi MG, Montresor M, Sarno D, Zingone A, Di Capua I, Franzè G, Margiotta F, Saggiomo M, Ribera d'Alcalà M (2014) The green-blue swing: plasticity of plankton food-webs in response to coastal oceanographic dynamics. *Marine Ecology* doi: 10.1111/maec.12211
- Bosak S, Šupraha L, Nanjappa D, Kooistra WHCF, Sarno D (2015) Morphology and phylogeny of four species from the genus *Bacteriastrum* (Bacillariophyta). *Phycologia* 54: 130-148.
- Bosak S, Udovic MG, Sarno D (2015) Morphological study of *Chaetoceros wighamii* Brightwell (Chaetocerotaceae, Bacillariophyta) from Lake Vrana, Croatia. *Acta Botanica Croata* 74.
- Corriero G, Pierri C, Accoroni S, Alabiso G, Bavestrello G, Barbone E, Bastianini M, Bazzoni AM, Aubry FB, Boero F, Buia MC, Cabrini M, Camatti E, Cardone F, Cataletto B, Vietti RC, Cecere E, Cibic T, Colangelo P, Olazabal AD, D'Onghia G, Finotto S, Fiore N, Fornasaro D, Fraschetti S, Giangrande A, Gravili C, Longo C, Lorenti M, Lugliè A, Maiorano P, Mazzocchi MG, Mercurio M, Mastrototaro F, Mistri M, Monti M, Munari C, Musco L, Nonnis-Marzano C, Padedda BM, Patti FP, Petrocelli A, Piraino S, Portacci G, Pugnetti A, Pulina S, Romagnoli T, Rosati I, Sarno D, Satta CT, Sechi N, Schiapparelli S, Scipione B, Sion L, Terlizzi A, Tirelli V, Totti C, Tursi A, Ungaro N, Zingone A, Zupo V, Basset A (2015) Ecosystem vulnerability to alien and invasive species: a case study on marine habitats along the Italian coast. *Aquatic Conservation: Marine and Freshwater Ecosystems*.
- Ruggiero MV, Sarno D, Barra L, Kooistra WHCF, Montresor M, Zingone A (2015) Diversity and temporal pattern of *Pseudo-nitzschia* species (Bacillariophyceae) through the molecular lens. *Harmful Algae* 42: 15-24.
- Santamaria G, Cerchia L, Esposito CL, Benvenuto G, Nanjappa D, Sarno D, Zingone A, De Francis V, Ribera d'Alcala M (2015) Aptamers are an innovative and promising tool for phytoplankton taxonomy and biodiversity research. *Chemistry & Ecology* 31: 92-103.

Book Chapters:

- Honsell G, Montresor M, Romagnoli T, Sarno D, Totti C, Zingone, A (2010) Osservazione del fitoplancton al microscopio elettronico a scansione (SEM) e a trasmissione (TEM). In: Socal G, Buttino I, Cabrini M, Mangoni O, Penna A et al., editors. *Metodologie di studio del plancton marino*. Roma: ISPRA. pp. 235-241.
- Zingone A, Totti C, Sarno D, Cabrini M, Caroppo C, Giacobbe MG, Lugliè A, Nuccio C, Socal G (2010) Fitoplancton: metodiche di analisi quali-quantitativa. In: Socal G, Buttino I, Cabrini M, Mangoni O, Penna A et al., editors. *Metodologie di studio del plancton marino*. Roma: ISPRA. pp. 204-228.