

Diana Sarno



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Current Position: Tecnologo II livello, Senior Technologist
Responsible Motax Core Facility – Marine Organism Taxonomy

Current Affiliation:

Motax - Research Infrastructures for marine biological resources Department
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-April 2019	Phytoplankton ecology and taxonomy
Stazione Zoologica Anton Dohrn, Napoli, Italy	Senior Technologist	4 April 2019-present	Phytoplankton ecology and taxonomy
Stazione Zoologica Anton Dohrn, Napoli, Italy	Responsible Motax Core Facility	14 June 2019	Taxonomy of Marine Organisms

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, 2019

Teacher 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, 2107)

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

Teacher of the "Taxonomy and Ecology of Marine Phytoplankton Course", Kuwait Institute for Scientific Research, (Kuwait, 2014)

Teacher of the "Atelier de Taxinomie du phytoplancton, RESOMAR-IFREMER". Station Biologique de Roscoff (8-10 dicembre 2015)

Teacher of the Training Course "HELCOM Phytoplankton Expert Group (PEG) meeting" (Daugavpils University, Latvia, 2019)

From 2017 Associate Professor Qualification in Ecology and Botany (National Scientific Habilitation, Sectors 05/A1 and 05/C1. Valid April 2017-April 2021)

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

Students' Supervision

Supervisor of 5 Master's students and 8 PhD students

Publications

Author of 54 papers on ISI-journals (h index: 30) and 3 book chapters. At 25/07/2019. Google Scholar: H-index: 30. Total citations: 3120.

Peer-reviewed publications of the last 10 years (2010-present):

Zingone A, D'Alelio D, Mazzocchi MG, Montresor M, Sarno D & LTER-MC team (2019). Time series and beyond: multifaceted plankton research at a marine Mediterranean LTER site. *Nature Conservation* 34, 273.

Piredda R, Claverie JM, Decelle J, de Vargas C, Dunthorn M, Edvardsen B, Eikrem W, Forster D., Kooistra WHCF, Logares R, Massana R, Montresor M, Not F, Ogata H, Pawlowski J, Romac S, Sarno D, Stoeck T, Zingone A. (2018) Diatom diversity through HTS-metabarcoding in coastal European seas. *Scientific Reports* 8(1): 18059.

Gaonkar CG, Piredda R, Minucci C, Mann DG, Montresor M, Sarno D, Kooistra WHCF. (2018) Annotated 18S and 28S rDNA reference sequences of taxa in the planktonic diatom family Chaetocerotaceae. PLoS One 13(12):e0208929. doi: 10.1371/journal.pone.0208929.

Gu H, Li X, Chomérat N, Luo Z, Sarno D, Gourvil P, Balzano S, Siano R (2018). *Adenoides sinensis*, a new sand-dwelling dinoflagellate species from China and reexamination of *Adenoides eludens* from an Atlantic strain. Phycologia 57(2):179-90. doi: 10.2216/17-76.1.

Morabito G, Mazzocchi M, Salmaso N, Zingone A, Bergami C, Flaim G, Accoroni S, Basset A, Bastianini M, Belmonte G, Bernardi Aubry F, Bertani I, Bresciani M, Buzzi F, Cabrini M, Camatti E, Caroppo C, Cataletto B, Castellano M, Del Negro P, de Olazabal A, Di Capua I, Elia A, Fornasaro D, Giallain M, Grilli F, Leoni B, Lipizer M, Longobardi L, Ludovisi A, Lugliè A, Manca M, Margiotta F, Mariani M, Marini M, Marzocchi M, Obertegger U, Oggioni A, Padedda B, Pansera M, Piscia R, Povero P, Pulina S, Romagnoli T, Rosati I, Rossetti G, Rubino F, Sarno D, Satta C, Sechi N, Stanca E, Tirelli V, Totti C, Puggnetti A (2018). Plankton dynamics across the freshwater, transitional and marine research sites of the LTER-Italy Network. Patterns, fluctuations, drivers. Science of the Total Environment 627:373-87. doi: <https://doi.org/10.1016/j.scitotenv.2018.01.153>.

Mordret S, Piredda R, Vaultot D, Montresor M, Kooistra WHCF, Sarno D (2018). DinoREF: a curated dinoflagellate (Dinophyceae) reference database for the 18S rRNA gene. Molecular Ecology Resources doi: 10.1111/1755-0998.12781.

Bosak S, Sarno D (2017). The planktonic diatom genus *Chaetoceros* Ehrenberg (Bacillariophyta) from the Adriatic Sea. Phytotaxa 314:001–44.

Cianelli D, D'Alelio D, Uttieri M, Sarno D, Zingone A, Zambianchi E, Ribera d'Alcala M (2017). Disentangling physical and biological drivers of phytoplankton dynamics in a coastal system. Scientific Reports 7(1):15868.

Gaonkar CG, Kooistra WHCF, Lange CB, Montresor M, Sarno D (2017). Two new species in the *Chaetoceros socialis* complex (Bacillariophyta): *C. sporotruncatus* and *C. dichatoensis*, and characterization of its relatives, *C. radicans* and *C. cinctus*. Journal of Phycology 53(4):889-907. doi: 10.1111/jpy.12554.

Piredda R, Sarno D, Lange CB, Tomasino MP, Zingone A, Montresor M (2017). Diatom resting stages in surface sediments: a pilot study comparing Next Generation Sequencing and Serial Dilution Cultures. Cryptogamie Algologie 38:31-46.

Piredda R, Tomasino M, D'Erchia A, Manzari C, Pesole G, Montresor M, Kooistra WHCF, Sarno D, Zingone A (2017). Diversity and temporal patterns of planktonic protist assemblages at a Mediterranean Long Term Ecological Research site. FEMS Microbiology Ecology 93(1):fiw200.

Saggiomo M, Poulin M, Mangoni O, Lazzara L, De Stefano M, Sarno D, Zingone A (2017). Spring-time dynamics of diatom communities in landfast and underlying platelet ice in Terra Nova Bay, Ross Sea, Antarctica. Journal of Marine Systems 166:26–36.

Balzano S, Percopo I, Siano R, Gourvil P, Chanoine M, Marie D, Vaultot D, Sarno D (2017). Morphological and genetic diversity of Beaufort Sea diatoms with high contributions from the *Chaetoceros neogracilis* species complex. Journal of Phycology 53(1): 161-187. doi: 10.1111/jpy.12489.

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, De Olazabal A, D'Onghia G, Finotto S, Fiore N, Fornasaro D, Frascchetti S, Gambi MC,

Giangrande A, Gravili C, Guglielmo R, Longo C, Lorenti M, Luglie 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, Schiaparelli S, Scipione B, Sion L, Terlizzi A, Tirelli V, Totti C, Tursi A, Ungaro N, Zingone A, Zupo V, Basset A (2016). Ecosystem vulnerability to alien and invasive species: a case study on marine habitats along the Italian coast. *Aquatic Conservation-Marine and Freshwater Ecosystems* 26(2):392–409. doi: 10.1002/aqc.2550.

Forster D, Dunthorn M, Mahé F, Dolan J, Audic S, Bass D, Bittner L, Boutte C, Christen R, Claverie J, Decelle J, Edvardsen B, Egge E, Eikrem W, Gobet A, Kooistra WCHF, Logares R, Massana R, Montresor M, Not F, Ogata H, Pawlowski J, Pernice MC, Romac S, Shalchian-Tabrizi K, Simon N, Richards TA, Santini S, Sarno D, Siano R, Vaultot D, Wincker P, Zingone A, De Vargas C, Stoeck T (2016). Benthic protists: the under-charted majority. *FEMS Microbiology Ecology* 92(8):fiw120. doi: 10.1093/femsec/fiw120.

Percopo I, Ruggiero MV, Balzano S, Gourvil P, Lundholm N, Siano R, Tammilehto A, Vaultot D, Sarno D (2016). *Pseudo-nitzschia arctica* sp. nov., a new cold-water cryptic *Pseudo-nitzschia* species within the *P. pseudodelicatissima* complex. *Journal of Phycology* 52(2):184–99. doi: 10.1111/jpy.12395.

Bosak S, Šupraha L, Nanjappa D, Kooistra WHCF, Sarno D (2015). Morphology and phylogeny of four species from the genus *Bacteriastrium* (Bacillariophyta). *Phycologia* 54(2):130–48.

Bosak S, Udovic MG, Sarno D (2015). Morphological study of *Chaetoceros wighamii* Brightwell (Chaetocerotaceae, Bacillariophyta) from Lake Vrana, Croatia. *Acta Botanica Croatica* 74(2):233–44.

D'Alelio D, Mazzocchi MG, Montresor M, Sarno D, Zingone A, Di Capua I, Franze G, Margiotta F, Saggiomo V, Ribera d'Alcala M (2015). The green-blue swing: plasticity of plankton food-webs in response to coastal oceanographic dynamics. *Marine Ecology* 36:1155–70. doi: 10.1111/maec.12211.

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(0):15–24. doi: <http://dx.doi.org/10.1016/j.hal.2014.12.001>.

Santamaria G, Cerchia L, Esposito CL, Benvenuto G, Nanjappa D, Sarno D, Zingone A, De Franciscis V, Ribera d'Alcala M (2015). Aptamers are an innovative and promising tool for phytoplankton taxonomy and biodiversity research. *Chemistry & Ecology* 31(1):92–103.

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(10):6705–18. doi:10.1007/s11356-012-1330-1).

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(5):950–66.

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* 9:4553–71. doi:10.5194/bg-9-4553-2012.

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(9):e44851. doi: 10.1371/journal.pone.0044851.

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 34:416-31.

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(6):937-45

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(3):243-67.

Zingone A, Sarno D, Siano R, Marino D (2011). The importance and distinctiveness of small-sized phytoplankton in the Magellan Straits. Polar Biology 34(9):1269-84.

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 55:106-14.

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 39:290-3.

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 57:248-55. doi: 10.1016/j.dsr2.2009.09.

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 33:342-61. doi: 10.1007/s12237-009-9157-9.