

Adriana Zingone



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Current Position: Dirigente di Ricerca, Research Director

Current Affiliation:

Section of Integrated Marine Ecology, Stazione Zoologica Anton Dohrn, Napoli (Italy) and Research Infrastructures for Marine Biological Resources, coordinator of the Monitoring and Environmental Data Analysis Unit (MEDA)

Education/Training/Experience

Institute and Location	Degree (if applicable)	Year	Field of Study
University Federico II of Napoli	Honors Master (Laurea)	1976	Phytoplankton cycle in a brackish-water lagoon
University Federico II of Napoli	Honors Master (Laurea)	1982	Mesopelagic fish in offshore Tyrrhenian waters
Private Company CoIPA	Contract	1981-1983	Plankton and biological quality of Tyrrhenian waters
Stazione Zoologica Anton Dohrn	Fellowship	1984-1988	Phytoplankton Systematics and ecology
Stazione Zoologica Anton Dohrn, Napoli, Italy	Researcher	1989-2000	Ecology and biodiversity of marine microalgae

Stazione Zoologica Anton Dohrn (trained by Jahn Thronsdén, Norway, visiting scientist at SZN on several periods)		1990-1994	Taxonomy and cultivation of marine flagellates
Stazione Zoologica Anton Dohrn, Napoli, Italy	Senior Scientist	2000-2016	Ecology and biodiversity of marine microalgae
Stazione Zoologica Anton Dohrn, Napoli, Italy	Research Director	As of October 2016	Ecology and biodiversity of marine microalgae

Appointments

Committee member of the “Collegio dei Docenti” for the PhD in Biologia delle Alghe (University of Messina)

Faculty of the Advanced International Phytoplankton Course -Taxonomy and Systematics (APC) in 1995, 1998, 2005, 2008, 2012 and 2015 and Scientific Coordination of the APC in 2005, 2008 and 2015.

1995-2002 Chair (elected three times) of the UNESCO-IOC Intergovernmental Panel on Harmful Algal Blooms

1999-2002 Group of Experts of the IOC Coastal-GOOS panel

2005-2008 Executive Committee of the International Society for the Study of Harmful Algae

2002 Review Panel of Marine Science in Argentina, appointed by the funding agency Antorchas

1995-2002 International Advisory Board of the IOC Science and Communication Centre on Harmful Algae in Copenhagen

1995-present Italian Oceanographic Committee

2005-2007 Italian Delegation at the IOC Executive Council

1998-2002 Scientific Steering Committee of the IOC-SCOR Programme ‘Global Ecology and Oceanography of Harmful Algal Blooms (GEOHAB)

2002-2005 Associate Editor of the international journal ‘Harmful Algae’

2006-2012 Executive Committee of the LTER-Italy network

2009-2012 International Jury of the Ramon Margalef Award in Ecology

2012-2014 Member of the Italian Expert Group for the definition of Descriptor 5, ‘Eutrophication’, within the Marine Strategy Framework Directive (MSFD)

1992- present, Italian Delegate at the UNESCO-IOC Intergovernmental Panel on Harmful Algal Blooms

1998 – present, Member of the IPHAB Task Team of Algal taxonomy

2009- present, SCOR-Working Group 137: Global Patterns of Phytoplankton Dynamics in Coastal Ecosystems: Comparative Analysis of Time Series Observations

2004-present Responsible for the Gulf of Naples site in the Long Term Ecological Research (LTER) networks.

2010 – present Section Editor of the international journal ‘Mediterranean Marine Science’

2010 - present Scientific Coordination of the Long term Ecological Research program MareChiara in the Gulf of Naples.

2011- present, Management committee of the ESFRI LifeWatch-ITA JRU

2013- present, Coordination team of the Genomic Observatories network

2012- present, Co-coordinator of the Thematic Centre ‘Molecular Biology’ of LifeWatch-ITA
2014- present, Coordinator of the Monitoring and Environmental Data Analysis Unit (MEDA) of the
Stazione Zoologica Anton Dohrn
2014- present, Co-editor of the IOC-OBIS Global HAB Status Report
2017-present, Member of the EMB WG on ‘Strengthening Europe’s biological ocean observing
capacity’
2017 National Scientific Qualification as Full Professor in Ecology
2017 National Scientific Qualification as Full Professor in Botany

Awards

2005 Luigi Provasoli Award Of The Phycological Society Of America (outstanding paper in
Journal of Phycology, year 2005).
2005 Faculty of 1000 highlight (MUST READ)
2010 Faculty of 1000 highlight (RECOMMENDED)

Other

Tutor/cotutor of 9 bachelor/master degree thesis and 12 national and international PhD thesis
Supervisor of 15 postdoctoral researchers and fellows
Member of national and international PhD examination panels
More than 40 invited talks in national or international events
Author of 96 papers on international referenced journals and 3 book chapters

Publications

(as of 2008)

2018

Castellano, I., Migliaccio, O., Ferraro, G., Maffioli, E., Marasco, D., Merlino, A., Zingone, A., Tedeschi, G. and Palumbo, A. (2018) Biotic and environmental stress induces nitration and changes in structure and function of the sea urchin major yolk protein toposome. *Scientific Reports*, **8**, 4610.
Escalera, L., Italiano, A., Pistocchi, R., Montesor, M. and Zingone, A. (2018) *Gonyaulax hyalina* and *G. fragilis* (Dinoflagellata), two names associated with ‘mare sporco’, indicate the same species. *Phycologia*, in press
Morabito, G., Mazzocchi, M. G., 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. C., Fornasaro, D., Giallain, M., Grilli, F., Leoni, B., Lipizer, M., Longobardi, L., Ludovisi, A., Lugliè, A., Manca, M., Margiotta, F., Mariani, M. A., Marini, M., Marzocchi, M., Obertegger, U., Oggioni, A., Padedda, B. M., Pansera, M., Piscia, R., Povero, P., Pulina, S., Romagnoli, T., Rosati, I., Rossetti, G., Rubino, F., Sarno, D., Satta, C. T., Sechi, N., Stanca, E., Tirelli, V., Totti, C. and Pugnetti, 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**, 373-387.
Tragin, M., Zingone, A. and Vaultot, D. (2018) Comparison of coastal phytoplankton composition estimated from the V4 and V9 regions of 18S rRNA gene with a focus on photosynthetic groups and especially Chlorophyta. *Environmental Microbiology*, **20**, 506-520.
Vincent, F. J., Colin, S., Romac, S., Scalco, E., Bittner, L., Garcia, Y., Lopes, R. M., Dolan, J., Zingone, A., De Vargas, C. and Bowler, C. (2018) The epibiotic life of the cosmopolitan diatom *Fragilariopsis doliolus* on heterotrophic ciliates in the open ocean. *ISME Journal*, in press

2017

- Berdalet, E., Tester, P. A., Chinain, M., Fraga, S., Lemée, R., Litaker, W., Penna, A., Usup, G., Vila, M. and Zingone, A. (2017) Harmful algal blooms in benthic systems: Recent progress and future research. *Oceanography*, **30**, 36-45.
- Cianelli, D., D'Alelio, D., Uttieri, M., Sarno, D., Zingone, A., Zambianchi, E. and D'alcalà, M. R. (2017) Disentangling physical and biological drivers of phytoplankton dynamics in a coastal system. *Scientific Reports*, **7**, 15868.
- Hallegraeff, G. M., Bresnan, E., Enevoldsen, H., Schweibold, L. and Zingone, A. (2017) Call to contribute to Global HAB Status Report *Harmful Algae News*, **58**, 1-3.
- Nanjappa, D., Sanges, R., Ferrante, M. I. and Zingone, A. (2017) Diatom flagellar genes and their expression during sexual reproduction in *Leptocylindrus danicus*. *Bmc Genomics*, **18**, 813.
- Piredda, R., Sarno, D., Lange, C. B., Tomasino, M. P., Zingone, A. and 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, W., Sarno, D. and Zingone, A. (2017) Diversity and temporal patterns of planktonic protist assemblages at a Mediterranean Long Term Ecological Research site. *FEMS Microbiology Ecology*, **93**, fiw200.
- Rosati, I., Bergamia, C., Stanca, E., Roselli, L., Tagliolato, P., Oggioni, A., Fiore, N., Pugnetti, A., Zingone, A., Boggero, A. and Basset, A. (2017) A thesaurus for phytoplankton trait-based approaches: development and applicability. *Ecological Informatics*, **42**, 129-138.
- Rossi, R., Dell'aversano, C., Krock, B., Ciminiello, P., Percopo, I., Tillmann, U., Soprano, V. and Zingone, A. (2017) Mediterranean *Azadinium dexteroporum* (Dinophyceae) produces six novel azaspiracids and azaspiracid-35: a structural study by a multi-platform mass spectrometry approach. *Analytical and Bioanalytical Chemistry*, **409**, 1121-1134.
- Saggiomo, M., Poulin, M., Mangoni, O., Lazzara, L., De Stefano, M., Sarno, D. and 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.
- Zingone, A., Enevoldsen, H. and Hallegraeff, G. M. (2017) Are HABs and their societal impacts expanding and intensifying? A call for answers from the HAB scientific community. In: L. a. O. Proença and G. M. Hallegraeff (eds) *Marine and Fresh-Water Harmful Algae*. International Society for the Study of Harmful Algae and Intergovernmental Oceanographic Commission of UNESCO 2017, pp. 14-17.
- Zingone, A., Montresor, M. and Sarno, D. (2017) Un tesoro di biodiversità invisibile nella Baia di Napoli. In: A. Aveta, B. G. Marino and R. Amore (eds) *La Baia Di Napoli*. Vol. 1. Artstudiopaparo s.r.l., Napoli, pp. 61-65.

2016

- Corriero, G., Pierri, C., Accoroni, S., Alabiso, G., Bavestrello, G., Barbone, E., Bastianini, M., Bazzoni, A. M., Aubry, F. B., Boero, F., Buia, M. C., Cabrini, M., Camatti, E., Cardone, F., Cataletto, B., Vietti, R. C., Cecere, E., Cibic, T., Colangelo, P., Olazabal, A. D., D'onghia, G., Finotto, S., Fiore, N., Fornasaro, D., Frascchetti, S., Giangrande, A., Gravili, C., Longo, C., Lorenti, M., Lugliè, A., Maiorano, P., Mazzocchi, M. G., Mercurio, M., Mastrototaro, F., Mistri, M., Monti, M., Munari, C., Musco, L., Nonnis-Marzano, C., Padedda, B. M., Patti, F. P., Petrocelli, A., Piraino, S., Portacci, G., Pugnetti, A., Pulina, S., Romagnoli, T., Rosati, I., Sarno, D., Satta, C. T., Sechi, N., Schiapparelli, S., Scipione, B., Sion, L., Terlizzi, A., Tirelli, V., Totti, C., Tursi, A., Ungaro, N., Zingone, A., Zupo, V. and 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**: 392-409.
- 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, W. C. H. F., Logares, R., Massana, R., Montresor, M., Not, F., Ogata, H., Pawlowski, J., Pernice, M. C., Romac, S., Shalchian-Tabrizi, K., Simon, N., Richards, T. A., Santini, S., Sarno, D., Siano, R., Vaultot, D., Wincker, P., Zingone, A., De Vargas, C. and Stoeck, T. (2016) Benthic protists: the under-charted majority. *FEMS Microbiology Ecology*, **92**, 8, fiw12

- Malviya, S., Scalco, E., Audic, S., Veluchamy, A., Bittner, L., Vincent, F., Poulain, J., Wincker, P., Iudicone, D., De Vargas, C., Zingone, A. and Bowler, C. (2016) Insights into global diatom distribution and diversity in the world's ocean. *Proc. Natl. Acad. Sci. U.S.A.*, 113 E1516-E1525.
- Migliaccio, O., Castellano, I., Di Cioccio, D., Tedeschi, G., Negri, A., Cirino, P., Romano, G., Zingone, A. and Palumbo, A. (2016) Subtle reproductive impairment through nitric oxide-mediated mechanisms in sea urchins from an area affected by harmful algal blooms. *Scientific Reports*, 6, 26086.
- Rossi, R., Dell'Aversano, C., Krock, B., Ciminiello, P., Percopo, I., Tillmann, U., Soprano, V. and Zingone, A. (2016) Mediterranean *Azadinium dexteroporum* (Dinophyceae) produces six novel azaspiracids and azaspiracid-35: a structural study by a multi-platform mass spectrometry approach. *Analytical and Bioanalytical Chemistry*, 1-14.

2015

- Zingone, A., P. J. Harrison, A. Kraberg, S. Lehtinen, A. McQuatters-Gollop, T. O'Brien, J. Sun & H. H. Jakobsen (2015). Increasing the quality, comparability and accessibility of phytoplankton species composition time-series data. *Estuarine, Coastal and Shelf Science*, **162**: 151-10.
- Massana, R., A. Gobet, S. Audic, D. Bass, L. Bittner, C. Boutte, A. Chambouvet, R. Christen, J. M. Claverie, J. Decelle, J. R. Dolan, M. Dunthorn, B. Edvardsen, I. Forn, D. Forster, L. Guillou, O. Jaillon, W. H. C. F. Kooistra, R. Logares, F. Mahé, F. Not, H. Ogata, J. Pawlowski, M. C. Pernice, I. Probert, S. Romac, T. Richards, S. Santini, K. Shalchian-Tabrizi, R. Siano, N. Simon, T. Stoeck, D. Vaultot, A. Zingone & C. de Vargas (2015). Marine protist diversity in European coastal waters and sediments as revealed by high-throughput 5 sequencing. *Environmental Microbiology* **17**: 4035–4049.
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- Santamaria, G., L. Cerchia, C. L. Esposito, G. Benvenuto, D. Nanjappa, D. Sarno, A. Zingone, V. De Franciscis & M. Ribera d'Alcala (2015). Aptamers are an innovative and promising tool for phytoplankton taxonomy and biodiversity research. *Chemistry & Ecology* **31**:92-103.
- Ruggiero, M. V., D. Sarno, L. Barra, W. H. C. F. Kooistra, M. Montresor & A. Zingone (2015). Diversity and temporal pattern of *Pseudo-nitzschia* species (Bacillariophyceae) through the molecular lens. *Harmful Algae* **42**:15-24.
- Jakobsen, H., J. Carstensen, P. Harrison & A. Zingone (2015). Estimating time series phytoplankton carbon biomass: Inter-lab comparison of species identification and comparison of volume-to-carbon scaling ratios. *Estuarine, Coastal and Shelf Science*, **162**: 143-150.
- Harrison, P., A. Zingone, M. Mickelson, S. Lehtinen, N. Ramaiah, A. Kraberg, J. Sun, A. McQuatters-Gollop & H. Jakobsen (2015). Cell Volumes of Marine Phytoplankton from Globally Distributed Coastal Data Sets. *Estuarine, Coastal and Shelf Science*, **162**: 130-142.
- Decelle, J., S. Romac, R. F. Stern, E. M. Bendif, A. Zingone, S. Audic, M. D. Guiry, L. Guillou, D. Tessier & F. Le Gall (2015). PhytoREF: a reference database of the plastidial 16S rRNA gene of photosynthetic eukaryotes with curated taxonomy. *Molecular Ecology Resources*, **in press**
- de Vargas, C., S. Audic, N. Henry, J. Decelle, F. Mahé, R. Logares, E. Lara, C. Berney, N. Le Bescot, I. Probert, M. Carmichael, J. Poulain, S. Romac, S. Colin, J.-M. Aury, L. Bittner, S. Chaffron, M. Dunthorn, S. Engelen, O. Flegontova, L. Guidi, A. Horák, O. Jaillon, G. Lima-Mendez, J. Lukeš, S. Malviya, R. Morard, M. Mulo, E. Scalco, R. Siano, F. Vincent, A. Zingone, C. Dimier, M. Picheral, S. Searson, S. Kandels-Lewis, T. O. Coordinators, S. G. Acinas, P. Bork, C. Bowler, G. Gorsky, N. Grimsley, P. Hingamp, D. Iudicone, F. Not, H. Ogata, S. Pesant, J. Raes, M. E. Sieracki, S. Speich, L. Stemann, S. Sunagawa, J. Weissenbach, P. Wincker & E. Karsenti (2015). Eukaryotic plankton diversity in the sunlit ocean. *Science* **348**.

- Carella, F., A. Sardo, O. Mangoni, D. Di Cioccio, G. Urciuolo, G. De Vico & A. Zingone (2015). Quantitative histopathology of the Mediterranean mussel (*Mytilus galloprovincialis* L.) exposed to the harmful dinoflagellate *Ostreopsis* cf. *ovata*. *J. Invertebr. Pathol.* **127**:130-40.
- D'Alelio, D., M. G. Mazzocchi, M. Montresor, D. Sarno, A. Zingone, I. Di Capua, G. Franzè, F. Margiotta, M. Saggiomo & M. Ribera d'Alcalà (2014). The green-blue swing: plasticity of plankton food-webs in response to coastal oceanographic dynamics. *Marine Ecology*, **36**: 1155–70.

2014

- Zingone, A. (2014). Harm from the benthos: old and new challenges for HAB research and management. In: Kim, H. G., Reguera, B., Hallegraeff, G., Lee, C. K., Han, M. S. & Choi, J. K. [Eds.] *Harmful Algae 2012. Proceedings of the 15th International Conference on Harmful Algae*. International Society for the Study of Harmful Algae, Changwon, Korea, pp. 26-29.
- Wyatt, T. & A. Zingone (2014). Phytoplankton bloom strategies and constraints on predicting outbreaks. In: Kim, H. G., Reguera, B., Hallegraeff, G., Lee, C. K., Han, M. S. & Choi, J. K. [Eds.] *Harmful Algae 2012. Proceedings of the 15th International Conference on Harmful Algae*. International Society for the Study of Harmful Algae, Changwon, Korea, pp. 78-81.
- Wyatt, T. & A. Zingone (2014). Population dynamics of red tide dinoflagellates. *Deep-Sea Res. II* **101**:231–36.
- Nanjappa, D., G. D'Ippolito, C. Gallo, A. Zingone & A. Fontana (2014). Oxylipin diversity in the diatom family Leptocylindraceae reveals DHA derivatives in marine diatoms. *Mar. Drugs* **12**:368-84.
- Nanjappa, D., S. Audic, S. Romac, W. C. H. F. Kooistra & A. Zingone (2014). Assessment of species diversity and distribution of an ancient diatom lineage using a DNA metabarcoding approach. *PLoS ONE* **9**:e103810.
- Logares, R., S. Audic, D. Bass, L. Bittner, C. Boutte, R. Christen, J.-M. Claverie, J. Decelle, J. R. Dolan, M. Dunthorn, B. Edvardsen, A. Gobet, W. C. H. F. Kooistra, F. Mahé, F. Not, H. Ogata, J. Pawlowski, M. C. Pernice, S. Romac, K. Shalchian-Tabrizi, N. Simon, T. Stoeck, S. Santini, R. Siano, P. Wincker, A. Zingone, T. A. Richards, C. de Vargas & R. Massana (2014). Patterns of rare and abundant marine microbial eukaryotes. *Current Biology* **24**:813-21.
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- Di Cioccio, D., M. C. Buia & A. Zingone (2014). Ocean acidification will not deliver us from *Ostreopsis*. In: Kim, H. G., Reguera, B., Hallegraeff, G., Lee, C. K., Han, M. S. & Choi, J. K.

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2013

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