Marina Montresor
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Education
1980 – Master degree in Biological Sciences at the University of Padova (Italy)
110/110 *cum laude*

Professional appointments
- 2008 - 2014: head of the Laboratory of Ecology and Evolution of Plankton, Stazione Zoologica Anton Dohrn
- 2001 –2008: head of the Laboratory of Marine Botany, Stazione Zoologica Anton Dohrn
- 2000-to date: Senior scientist, Stazione Zoologica Anton Dohrn
- 1989: Visiting Scientist at Woods Hole Oceanographic Institution
- 1989-2000: Research scientist, Stazione Zoologica Anton Dohrn
- 1983-1988: Research fellowship, Stazione Zoologica Anton Dohrn
- 1982-1983: Teacher of mathematics and sciences at primary and secondary public schools (Padova, Italy)
- 1980-1981: Fellowship at the Institute of Botany and Plant Physiology (University of Padova)

Other Appointments:
- 2018: Co-chair of the Scientific Committee for the 7th European Phycological Conference (to be organized in Zagreb, Croatia, August 2019)
- 2017 - to date: Member of the Jury of the 'Premi Ramon Margalef d'Ecologia'
- 2016-present: member of the Scientific Steering Committee of GlobalHAB (SCOR – IOC)
- 2015-present: Associate member of The Linnaeus Centre for Marine Evolutionary Biology (CeMEB) at the University of Gothenburg (Sweden)
- 2014-present: member of the Editorial Board of Harmful Algae
- 2010-2014: Member of the GEOHAB Core Research Project "HABs in fjords and coastal embayments'
- 2009-2012: member of the Editorial Board of Estuaries and Coasts
- 2007-2014: member of the Editorial Board of Protist
- 2005-2007: member of the Editorial Board of Journal of Phycology (Journal of the American Phycological Society)

- 2003-2005: Member of the Council of the International Society for the Study of Harmful Algae (ISSHA)
- 2000-2002: Coordinator of the Italian Phycological Working Group
- 2000 - 2005: Associated Editor of Phycologia (Journal of the International Phycological Society)
- 1999-2007: Member of the faculty of the PhD program in Algae Biology (University of Messina, Italy)

Teaching Activity

- 2016: National Qualification to Full Professor (Botany 05/A1)
- 2015-2017: Course 'Biology of Algae' at the University Federico II, Napoli (Master 'Biology and ecology of the marine environment and sustainable use of marine resources')
- Member of the organizing committee and teacher at the Advanced Phytoplankton Course: Taxonomy and Systematics in 2015, 2012, 2008, 2005, 1998, 1995.
- 4-8 February 2013: Teacher at the 'INCOMMET Training Course on Taxonomy of Mediterranean Toxic Algae', Stazione Zoologica Anton Dohrn, Napoli.
- 14-25 January 2008: Teacher at the 'Training Course in Biological Oceanography' at the National Institute of Oceanography, Goa (India).
- 25-29 September 2005: Teacher at the 'Phytoplankton Expert Group' at HELCOM, University of Lund (Sweden).
- 5-9 September 2005: Teacher at the Advanced Course 'Methods for taxonomic studies on dinoflagellate cyst in marine recent sediments' at the University of Concepcion (Chile).
- 2000-2008: Member of the Faculty of the PhD program 'Biology of Algae' of the University of Messina (Italy).
- 2000-2001: Course 'Plankton Biology' at the University 'Parthenope', Napoli.

Research projects (last 10 years)

- 2017-2019: ABBACO Restauro Ambientale e Balneabilita' del SIN Bagnoli Coroglio (National progect funded by MIUR-CIPE)
- 2013-2016: Italian Flagship project RITMARE (La Ricerca Italiana per il Mare) funded by MIUR, Involved in S3-WP4-A4 (Ecological and biogeochemical modelling) and e S2-WP1-A2 (Innovative systems to support analysis and monitoring of fish stocks - stock units and food webs).
- 2012-2016: FIRB: BIODIVERSITALIA 'Approccio multitaxa allo studio delle risposte della biodiversità italiana al cambiamento climatico'
- 2011-2015 EU project GYPSY (Genetics in *PSeudo-nitzschia*)
- 2009- 2010: "*Ostreopsis ovata* e *Ostreopsis* spp.: nuovi rischi di tossicità nei mari italiani" coordinated by ISPRA; responsible of WP4 'Ecophysiology of microalgae'.
- 2008-2012 EU-FP7 project MIDTAL 'MIDTAL Microarrays for the detection of toxic algae' Project No: 201724.
- 2006- 2010: MIUR-VECTOR-Vulnerability of the Italian coastlines and marine ecosystems to climate change"

Supervision of PhD theses (last 10 years)
As director of studies:

- PhD program Open University-SZN (2010-2012) Eleonora Scalco 'Factors regulating transitions among life cycle phases in the marine pennate diatom Pseudo-nitzschia multistriata'.
- PhD program Open University-SZN (2013-2015) Laura Vitale 'Molecular insights into the mating system of the marine diatom Pseudo-nitzschia multistriata using genetic and genomic approaches'.
- PhD program Open University-SZN (2015-ongoing) Angela Pelusi 'Cues triggering formation and germination of resting stages in marine diatoms'

As internal supervisor:

- PhD program Open University-SZN (2013-2015) Shrikant Malgonda Patil
- 'Genomics enabled exploration of the marine planktonic diatom genus Pseudo-nitzschia'
- PhD program Open University-SZN (2015-ongoing) Camilla Borgonuovo 'Signal perception in diatoms: dissecting chemical communication with molecular approaches'

PhD defence panels
Member of PhD defence panels in Denmark (3), France (3), Australia (3), Spain (1), Portugal (2), Norway (1), UK (1), Open University of London (2), University of Ancona (Italy), University of Bologna.

Invited talks (last 10 years)

- Conference 'The molecular life of diatoms' Kobe (Japan) 2017
- 17th International Conference on Harmful Algae, Florianopolis (Brazil) 2016
- VII ECOP – ISOP Joint Meeting, Sevilla 2015
- CeMEB 9th Assembly, Tjärnö (Sweden) 2013
- 22nd Diatom Symposium, Ghent 2012
- GEOHAB Open Science Meeting, Victoria BC (Canada) 2012
- XXVIII National Conference of the Italian Society of Protistology, Pisa, 2010
- Texas A&M University, College Station (USA) 2010
- EMBO Workshop 'Evo-Devo meets Marine Ecology' SZN, 2009
- Gordon Research Conference 'Marine Microbes', Lucca, 2008
- Chapman Conference 'Long Time-Series Observations in Coastal Ecosystems' Rovinj 2007
- Marine Genomics Europe workshop 'Comparative genomics and functional significance of the sexual phase in eukaryotic phytoplankton' Barcelona 2007

Refereeing

- Referee for several scientific journals including Nature, Science, ISME Journal.
- Evaluation of research projects for Italian Universities, MIUR (PRIN projects) and foreign agencies, such as ANF (Agence Nationale de la Recherche, Francia), NSF (National Science Fundation, USA), FONDECYT (National Fund for Scientific & Technological Development, Chile), Research Council of Norway, member of the evaluation panel of the Joint Baltic Sea Research Programme BONUS (2016).

PUBBLICATIONS (last 10 years)

Levialdi Ghiron J.H., Amato A., Montresor M. & Kooistra W.C.H.F. 2008. Plastid inheritance in the planktonic raphid pennate diatom Pseudo-nitzschia delicatissima (Bacillariophyceae). Protist 159: 91-98.

Assmy P., Hernández-Becerril D.U. & Montresor M. 2008. Morphological variability and life cycle traits of the type species of the diatom genus Chaetoceros, C. dichaeta. Journal of Phycology 44: 152-163.

Amato A. & Montresor M. 2008. Morphology, phylogeny, and sexual cycle of Pseudo-nitzschia mannii sp. nov. (Bacillariophyceae): a pseudo-cryptic species within the P. pseudodelicatissima complex. Phycologia 47: 487–497.

Elbrächter, M., M. Gottschling, T. Hildebrand-Habel, H. Keupp, R. Kohring, J. Lewis, K. J. S. Meier, M. Montresor, M. Streng, G. J. M. Versteegh, H. Willems and K. Zonneveld. 2008. Establishing an agenda for calcareous dinoflagellates (Thoracosphaeraceae, Dinophyceae) including a nomenclatural synopsis of generic names. Taxon 57:1289-1303.

D'Alelio, D., A. Amato, A. Luedeking and M. Montresor. 2009. Sexual and vegetative phases in the planktonic diatom Pseudo-nitzschia multistriata. Harmful Algae, 8: 225-232.

D'Alelio, D., A. Amato, W. H. C. F. Kooistra, G. Procaccini, R. Casotti and M. Montresor. 2009. Internal Transcribed Spacer polymorphism in Pseudo-nitzschia multistriata (Bacillariophyceae) in the Gulf of Naples: Recent divergence or intraspecific hybridization? Protist, 160 : 9-20.

Siano, R., W. H. C. F. Kooistra, M. Montresor and A. Zingone. 2009. Unarmoured and thin-walled dinoflagellates from the Gulf of Naples, with the description of Woloszynskia cincta sp. nov. (Dinophyceae, Suessiales). Phycologia 48: 44-65.

Kremp, A., K. Rengefors and M. Montresor. 2009. Species specific encystment patterns in three Baltic cold-water dinoflagellates: The role of multiple cues in resting cyst formation. Limnology and Oceanography, 54: 1125-1138.

d'Ippolito G., N. Lamari, M. Montresor, G. Romano, A. Cutignano, A. Gerecht, G. Cimino & A. Fontana. 2009. 15S-Lipoxygenase metabolism in the marine diatom Pseudo-nitzschia delicatissima. New Phytologist, 183: 1064-1071.

Sánchez G.E., Sarno D., Montresor M., Siano R. & Lange C.B. 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.

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.

Garces, E., Montresor, M., Lewis, J., Rengefors, K., Anderson, D.M., Barth, H., 2010. Phytoplankton Life Cycles and Their Impacts on the Ecology of Harmful Algal Blooms. Deep-Sea Res. Part II-Top. Stud. Oceanogr. 57(3-4), 159-161.

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.

Siokou-Frangou I., Christaki U., Mazzocchi M.G., Montresor M., Ribera D'Alcalà M., Vaqué D. & Zingone A. 2010. Plankton in the open Mediterranean Sea: a review. Biogeosciences 7: 1-44.

Siano R., Montresor M., Probert I., Not F. & de Vargas C. 2010. Pelagodinium gen. nov. and P. béii comb. nov., a dinoflagellate symbiont of planktonic foraminifera. Protist 161: 385–399.

Kooistra W.H.C.F., Sarno D., Hernández-Becerril D.U., Assmy P., Di Prisco C. & Montresor M. 2010. Comparative molecular and morphological phylogenetic analyses of taxa in the Chaetocerotaceae (Bacillariophyta). Phycologia 5: 471-500.

von Dassow, P., Montresor, M., 2011. Unveiling the mysteries of phytoplankton life cycles: patterns and opportunities behind complexity. J. Plankton Res. 33, 3-12.

Salgado, P., Troncoso, V. A., Montresor, M., Salamanca, M. & Lange, C. B. 2011. First record of Lingulodinium polyedrum (Dinophyceae) resting cysts in coastal sediments from the inner Sea of Chiloé, Los Lagos Region, Southern Chile (~41°-43°S). Gayana Bot. 68:106-09.

Zingone, A., Forlani, G., Percopo, I. & Montresor, M. 2011. Morphological characterization of Phaeocystis antarctica (Prymnesiophyceae). Phycologia 50:650-60.

Anderson DM, Alpermann TJ, Cembella AD, Collos Y, Masseret E, Montresor M (2012) The globally distributed genus Alexandrium: Multifaceted roles in marine ecosystems and impacts on human health. Harmful Algae 14:10-35

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Scalco E, Brunet C, Marino F, Rossi R, Soprano V, Zingone A, Montresor M (2012) Growth and toxicity responses of Mediterranean Ostreopsis cf. ovata to seasonal irradiance and temperature conditions. Harmful Algae 17:25-34

Tesson, S. V. N., Legrand, C., van Oosterhout, C., Montresor, M., Kooistra, W. H. C. F. & Procaccini, G. (2013). Mendelian inheritance pattern and high mutation rates of microsatellite alleles in the diatom Pseudo-nitzschia multistriata. Protist 164:89-100.

Guillou, L., Bachar, D., Audic, S., Bass, D., Berney, C., Bittner, L., Boutte, C., Burgaud, G., De Vargas, C., Decelle, J., Del Campo, J., Dolan, J. R., Dunthorn, M., Edvardsen, B., Holzmann, M., Kooistra, W. H. C. F., Lara, E., Le Bescot, N., Logares, R., Mahe, F., Massana, R., Montresor, M., Morard, R., Not, F., Pawlowski, J., Probert, I., Sauvadet, A.-L., Siano, R., Stoeck, T., Vaulot, D., Zimmermann, P. and Christen, R. (2013) The Protist Ribosomal Reference database (PR2): a catalog of unicellular eukaryote Small Sub-Unit rRNA sequences with curated taxonomy. Nucleic Acids Research, 41, D597-D604.

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Lamari, N., Ruggiero, M. V., D'ippolito, G., Kooistra, W. H. C. F., Fontana, A. and Montresor, M. (2013) Specificity of lipoxygenase pathways supports species delineation in the marine diatom genus Pseudo-nitzschia PLoS ONE, 8, e73281.

Assmy, P., Smetacek, V., Montresor, M., Klaas, C., Henjes, J., Strass, V. H., Arrieta, J. M., Bathmann, U., Berg, G. M., Breitbarth, E., Cisewski, B., Friedrichs, L., Fuchs, N., Herndl, G. J., Jansen, S., Krägefsky, S., Latasa, M., Peeken, I., Röttgers, R., Scharek, R., Schüller, S. E., Steigenbergers., Webb, A. and Wolf-Gladrow, D. (2013) Thick-shelled, grazer-protected diatoms decouple ocean carbon and silicon cycles in the iron-limited Antarctic Circumpolar Current. Proceedings of the National Academy of Sciences, 110, 20633–20638.

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Barra, L., Ruggiero, M. V., Sarno, D., Montresor, M. and Kooistra, W. C. H. F. (2013) Strengths and weaknesses of microarray approaches to detect Pseudo-

nitzschia species in the field. Environmental Science and Pollution Research, 20, 6705-18.

Fuchs, N., Scalco, E., Kooistra, W. C. H. F., Assmy, P. and Montresor, M. (2013) Genetic characterization and life cycle of the diatom Fragilariopsis kerguelensis. European Journal of Phycology, 48, 411-426.

Escalera, L., Benvenuto, G., Scalco, E., Zingone, A. & Montresor, M. (2014). Ultrastructural features of the benthic dinoflagellate Ostreopsis cf. ovata (Dinophyceae). Protist, 165: 260-274.

Adelfi, M.G., Borra, M., Sanges, R., Montresor, M., Fontana, A., Ferrante, M.I., 2014. Selection and validation of reference genes for qPCR analysis in the pennate diatoms Pseudo-nitzschia multistriata and P. arenysensis. J. Exp. Mar. Biol. Ecol. 451, 74-81.

Assmy, P., Cisewski, B., Henjes, J., Klaas, C., Montresor, M., Smetacek, V., 2014. Response of the protozooplankton assemblage during the European Iron Fertilization Experiment (EIFEX) in the Antarctic Circumpolar Current. J. Plankton Res. 36, 1175-1189.

Godhe, A., Kremp, A., Montresor, M., 2014. Genetic and microscopic evidence for sexual reproduction in the centric diatom Skeletonema marinoi. Protist 165, 401-416.

John, U., Litaker, W., Montresor, M., Murray, S., Brosnahan, M., Anderson, D.M., 2014a. Formal revision of the Alexandrium tamarense species complex (Dinophyceae) taxonomy: the introduction of five species with emphasis on molecular-based (rDNA) classification. Protist 165, 779–804.

John, U., Litaker, W., Montresor, M., Murray, S., Brosnahan, M.L., Anderson, D.M., 2014b. Proposal to reject the name Gonyaulax catenella (Alexandrium catenella) (Dinophyceae). Taxon 63, 932-933.

Scalco, E., Stec, K., Iudicone, D., Ferrante, M.I., Montresor, M., 2014. The dynamics of sexual phase in the marine diatom Pseudo-nitzschia multistriata (Bacillariophyceae). J. Phycol. 50, 817-828.

Tesson, S.V.M., Montresor, M., Procaccini, G., Kooistra, W.H.C.F., 2014. Temporal changes in population structure of a marine planktonic diatom. PLoS One 10.1371/journal.pone.0114984

D'Alelio, D., Mazzocchi, M.G., Montresor, M., Sarno, D., Zingone, A., Di Capua, I., Franzè, G., Margiotta, F., Saggiomo, M., Ribera d'Alcalà, M., 2015. The green-blue swing: plasticity of plankton food-webs in response to coastal oceanographic dynamics. Marine Ecology 36, 1155–1170.

Di Dato, V., Musacchia, F., Petrosino, G., Patil, S., Montresor, M., Sanges, R., Ferrante, M.I., 2015. Transcriptome sequencing of three Pseudo-nitzschia

species reveals comparable gene sets and the presence of Nitric Oxide Synthase genes in diatoms. Scientific Reports doi:10.1038/srep12329.

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Ruggiero, M.V., Sarno, D., Barra, L., Kooistra, W.H.C.F., Montresor, M., Zingone, A., 2015. Diversity and temporal pattern of Pseudo-nitzschia species (Bacillariophyceae) through the molecular lens. Harmful Algae 42, 15-24.

Scalco, E., Amato, A., Ferrante, M., Montresor, M., 2015. The sexual phase of the diatom Pseudo-nitzschia multistriata: cytological and time-lapse cinematography characterization. Protoplasma, 10.1007/s00709-00015-00891-00705.

McNamee, S.E., Medlin, L.K., Kegel, J., McCoy, G.R., Raine, R., Barra, L., Ruggiero, M.V., Kooistra, W.H.C.F., Montresor, M., Hagstrom, J., Blanco, E.P., Graneli, E., Rodríguez, F., Escalera, L., Reguera, B., Dittami, S., Edvardsen, B., Taylor, J., Lewis, J.M., Pazos, Y., Elliott, C.T., Campbell, K., 2016. Distribution, occurrence and biotoxin composition of the main shellfish toxin producing microalgae within European waters: A comparison of methods of analysis. Harmful Algae 55, 112-120.

D'Alelio, D., Montresor, M., Mazzocchi, M. G., Margiotta, F., Sarno, D. & Ribera d'Alcalà, M. 2016. Plankton food webs: to what extent can they be simplified? Advances in Oceanography and Limnology 7:67-92

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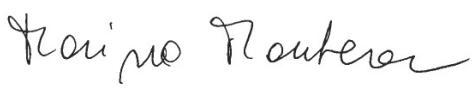
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