

Maria Grazia Mazzocchi



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Current Position: Ricercatore II° livello, Senior Scientist

Current Affiliation:

Section of Integrated Marine Ecology, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Liceo Scientifico Cremona, Italy	High School degree	1970-1974	Sciences
Università degli Studi di Parma, Italy	Laurea	1975-1980	Natural Sciences
Istituto di Zoologia and Istituto di Ecologia, Università degli Studi di Parma, Italy	Fellowship	1980-1982	Taxonomy and ecology of brackish water and freshwater zooplankton
Stazione Zoologica Anton Dohrn, Napoli, Italy	Fellowship	1983-1988	Taxonomy and ecology of marine zooplankton
Stazione Zoologica Anton Dohrn, Napoli, Italy	Ricercatore	1989-1999	Taxonomy and ecology of marine zooplankton
Stazione Zoologica Anton Dohrn, Napoli, Italy	1° Ricercatore	2000- present	Taxonomy and ecology of marine zooplankton
Università <i>Parthenope</i> , Napoli, Italy	Appointed Professor	1998-2002	Plankton ecology

Appointments

2005-present: Member of the Editorial Board of *Marine Ecology*
2007-2010: Participant to the SCOR-WG130 on *Automatic Visual Identification of Plankton*
2007-2011: Participant to the SCOR-WG 125 on *Global Comparisons of Zooplankton Time Series*
2007-present: Member of the ICES-Working Group of Zooplankton Ecology (WGZE)
2010-present: Member of the Editorial Board of *Mediterranean Marine Science*
2012-2014: Member of the Coordinating Committee of the *LTER-Italia* (Long-Term Ecological Research) network
2013: Outstanding reviewer of *Journal of Plankton Research*
2014-present: Deputy Coordinator of the *LTER-Italia* network
2014-present: Participant to the International Group for marine Ecological Time Series (IGMETS)
2015: Teacher at the *Marine Crustacean Zooplankton Workshop* at SAHFOS, Plymouth (UK)

Other

-Member of the *American Society of Limnology and Oceanography (ASLO)*
-Participant in the following projects:
2006-2010: VECTOR-*Vulnerability of the Italian coastlines and marine ecosystems to climate change* (MIUR)
2006-2010: SESAME- *Southern European Seas: Assessing and Modelling Ecosystem changes* (EU FP6)
2009-2014: ASSEMBLE-*ASSociation of European Marine Biological LaboratoriEs* (EU FP7)
2010-present: TARA-OCEANS
2015-present: TARA-Mediterranean
2011-present: RITMARE-*la Ricerca ITALiana per il MARE* (MIUR Flagship project)
2012-present: LTER-plankton, *Risposte a lungo termine del plancton alle forzanti climatiche e antropiche*, PT SZN 2012-14, 2013-2015, 2014-16
2013-present: METACOPEPOD (HCMR, Crete)

Students' Supervision

Tutor of numerous Laurea theses.
Supervisor of five Ph.D. students and a Mphil student.

Peer-reviewed publications of the last 10 years:

Paffenhöfer, G.-A., Ianora, A., Miralto, A., Turner, J.T., Kleppel, G.S., Ribera d'Alcalà, M., Casotti, R., Caldwell, G.S., Pohnert, G., Fontana, A., Müller-Navarra, D., Jónasdóttir, S., Ambrust, V., Båmstedt, U., Ban, S., Bentley, M.G., Boersma, M., Bundy, M., Calbet, A., Carlotti, F., Carotenuto, Y., d'Ippolito, G., Frost, B., Guisande, C., Lampert, W., Lee, R.F., Mazza, S., Mazzocchi, M.G., Nejstgaard, J.C., Poulet, S.A., Romano, G., Smetacek, V.,

- Uye, S., Wakeham, S., Watson, S., Wichard, T. (2005). Colloquium on diatom-copepod interactions. *Marine Ecology Progress Series* 286: 293-305.
- Uttieri, M., Zambianchi, E., Strickler, J.R., Mazzocchi, M.G. (2005) Fractal characterization of three-dimensional zooplankton swimming trajectories. *Ecological Modelling*, 185, 51-63.
- Culverhouse, P.F., Williams, R., Benfield, M., Flood, P.R., Sell, A.F., Mazzocchi, M.G., Buttino, I., Sieracki, M. (2006). Automatic image analysis of plankton: future perspectives. *Marine Ecology Progress Series*, 312: 297-309.
- Kovalev, A.V., Mazzocchi, M.G., Kideys, A.E., Skryabin, V.A. (2006). Neritization of the plankton fauna in the Mediterranean Basin. *Marine Ecological Journal*, 5: 5-15.
- Paffenhöfer, G.-A., Mazzocchi, M.G., Tzeng, M.W. (2006). Living on the edge: feeding of subtropical open ocean copepods. *Marine Ecology*, 27: 99-108.
- Mazzocchi, M.G., Buffoni, G., Carotenuto, Y., Pasquali, S., Ribera d'Alcalà, M. (2006). Effects of food conditions on the development of the population of *Temora stylifera*: A modeling approach. *Journal of Marine Systems*, 62: 71-84.
- Mazzocchi, M.G., Christou, E.D., Di Capua, I., Fernández de Puelles, M.L., Fonda-Umani, S., Molinero, J.C., Nival, P., Siokou-Frangou, I. (2007). Temporal variability of *Centropages typicus* in the Mediterranean Sea over seasonal-to-decadal scales. *Progress in Oceanography*, 72: 214-232.
- Uttieri, M., Nihongi, A., Mazzocchi, M.G., Strickler, J.R., Zambianchi, E. (2007). Pre-copulatory swimming behaviour of *Leptodiaptomus ashlandi* (Copepoda: Calanoida): a fractal approach. *Journal of Plankton Research*, 29: 17-26.
- Uttieri, M., Brown, E.R., Boxshall, G.A., Mazzocchi, M.G. (2008). Morphology of antennular sensors in *Clausocalanus furcatus* (Copepoda: Calanoida). *Journal of the Marine Biological Association of the United Kingdom*, 88: 535-541.
- Uttieri, M., Paffenhöfer, G.-A., Mazzocchi, M.G. (2008). Prey capture in *Clausocalanus furcatus* (Copepoda: Calanoida). The role of swimming behaviour. *Marine Biology*, 153: 925-935.
- Molinero, J.C., Vukanič, V., Lučić, D., Ibanez, F., Nival, P., Licandro, P., Calbet, A., Christou, E.D., Daly-Yahia, N., Fernandez de Puelles, M.L., Mazzocchi, M.G., Siokou-Frangou, I. (2009). Mediterranean marine copepods: basin-scale trends of the calanoid *Centropages typicus*. *Hydrobiologia*, 617: 41-53.
- 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.
- García-Comas, C., Stemmann, L., Ibanez, F., Berline, L., Mazzocchi, M.G., Gasparini, S., Picheral, M., Gorsky, G. (2011). Zooplankton long-term changes in the NW Mediterranean Sea: Decadal periodicity forced by winter hydrographic conditions related to large-scale atmospheric changes? *Journal of Marine Systems*, 87: 216–226.
- Mazzocchi, M.G., Licandro, P., Dubroca, L., Di Capua, I., Saggiomo, V. (2011). Zooplankton associations in a Mediterranean long-term time-series. *Journal of Plankton Research*, 33: 1163-1181.
- Berline, L., Siokou-Frangou, I., Marasović, I., Vidjak, O., Fernández de Puelles, M.L., Mazzocchi, M.G., Assimakopoulou, G., Zervoudaki, S., Fonda Umani, S., Conversi, A., Garcia-Comas, C., Ibanez, F., Gasparini, S., Stemmann, L., Gorsky, G. (2012). Intercomparison of six Mediterranean zooplankton time series. *Progress in Oceanography*, 97-100: 76-91.
- Mackas, D.L., Greve, W., Edwards, M., Chiba, S., Tadokoro, K., Eloire, D., Mazzocchi, M.G., Batten, S., Richardson, A., Johnson, C., Head, E., Conversi, A., Peluso, T. (2012). Changing zooplankton seasonality in a changing ocean: Comparing time series of zooplankton phenology. *Progress in Oceanography*, 97-100: 31-62.
- Mazzocchi, M.G., Dubroca, L., Garcia-Comas, C., Di Capua, I., Ribera d'Alcalà, M. (2012). Stability and resilience in coastal copepod assemblages: The case of the Mediterranean long-

term ecological research at stn MC (LTER-MC). *Progress in Oceanography*, 97-100: 135-151.

- Bianco, G., Botte, V., Dubroca, L., Ribera d'Alcalà, M., Mazzocchi, M.G. (2013). Unexpected regularity in swimming behaviour of *Clausocalanus furcatus* revealed by a telecentric 3D computer vision system. *PLoS ONE*, 8(6): e67640.
- Bianco, G., Mariani, P., Visser, A.W., Mazzocchi, M.G., Pigolotti, S. (2014). Analysis of self-overlap reveals trade-offs in plankton swimming trajectories. *Journal of the Royal Society Interface*, 11: 20140164. doi:10.1098/rsif.2014.0164.
- Malanotte-Rizzoli, P., Artale, V., Borzelli-Eusebi, G. L., Brenner, S., Crise, A., Gacic, Kress, N., Marullo, S., Ribera d'Alcalà, M., Sofianos, S., Tanhua, T., Theocharis, A., Alvarez, M., Ashkenazy, Y., Bergamasco, A., Cardin, V., Carniel, S., Civitarese, G., D'Ortenzio, F., Font, J., Garcia-Ladona, E., Garcia-Lafuente, J. M., Gogou, A., Gregoire, M., Hainbucher, D., Kontoyannis, H., Kovacevic, V., Kraskapoulou, E., Kroskos, G., Incarbona, A., Mazzocchi, M. G., Orlic, M., Ozsoy, E., Pascual, A., Poulain, P.-M., Roether, W., Rubino, A., Schroeder, K., Siokou-Frangou, I., Souvermezoglou, E., Sprovieri, M., Tintoré, J., Triantafyllou, G. (2014). Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research. *Ocean Science*, 10: 281–322.
- Mazzocchi, M.G., Siokou, I., Tirelli, V., Bandelj, V., Fernandez de Puellas, M.L., Ak Örek, Y., de Olazabal, A., Gubanova, A., Kress, N., Protopapa, M., Solidoro, C., Tagliatalata, S., Terbiyik Kurt, T. (2014). Regional and seasonal characteristics of epipelagic mesozooplankton in the Mediterranean Sea based on an artificial neural network analysis. *Journal of Marine Systems*, 135: 64-80.
- Corriero, G., Pierri, C., Accoroni, S., Alabisio, G., Bavestrello, G., Barbone, E., Bastianini, M., Bazzoni, A.M., Bernardy Aubry, F., Boero, F., Buia, M.C., Cabrini, M., Camatti, E., Cardone, F., Cataletto, B., Cattaneo Vietti, R., Cecere, E., Cibic, T., Colangelo, P., De Olazabal, A., D'Onghia, G., Finotto, S., Fiore, N., Fornasaro, D., Fraschetti, S., Gambi, M.C., Giangrande, A., Gravili, C., Guglielmo, R., 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., Sciapparelli, 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*. Published online in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/aqc.2550, in press.
- Crise, A., Kaberi, H., Ruiz, J., Zatsépin, A., Arashkevich, E., Giani, M., Karageorgis, A., Prieto, L., Pantazi, M., Gonzalez-Fernandez, D., Ribera d'Alcalá, M., Tornero, V., Vassilopoulou, V., Durrieu de Madron, X., Guieu, C., Puig, P., Zenetos, A., Andral, B., Angel, D., Altukhov, D., Ayata, S., Aktan, Y., Balçioğlu, Y., Bouchoucha, M., Buia, M. C., Cadiou, J.-F., Canals, M., Chakroun, M., Christou, E., Christidis, M., Civitarese, G., Coatu, V., Corsini-Foka, M., Cozzi, S., Deidun, A., Dell'Aquila, A., Dogrammatzi, A., Dumitrache, C., Edelist, D., Ettahiri, O., Fonda-Umani, S., Gana, S., Galgani, F., Gasparini, S., Giannakourou, A., Gomoiu, M., Gubanova, A., Gücü, A.-C., Gürses, Ö., Hanke, G., Hatzianestis, I., Herut, B., Hone, R., Huertas, E., Irisson, J.-O., İşinibilir, M., Jimenez, J., Kalogirou, S., Kaporis, K., Karamanfilov, V., Kavadas, S., Keskin, Ç., Kideys, A., Kocak, M., Kondylatos, G., Kontogiannis, C., Kosyan, R., Koubbi, P., Kušpilić, G., Laferla, R., Langone, L., Laroche, S., Lazar, L., Lefkaditou, E., Lemeshko, I., Lorange, P., Machias, A., Malej, A., Mazzocchi, M. G., Medinets, V., Mihalopoulos, M., Miserocchi, S., Moncheva, S., Mukhanov, V., Oaie, G., Oros, A., Öztürk, A., Öztürk, B., Panayotova, M., Prospathopoulos, A., Radu, G., Raykov, V., Reglero, P., Reygondeau, G., Rougeron, N., Salihoglu, B., Sanchez-Vidal, A.,

- Sannino, G., Santinelli, C., Secrieru, D., Shapiro, G., Simboursa, N., Shiganova, T., Sprovieri, M., Stefanova, K., Streftaris, N., Tirelli, V., Tom, M., Topaloğlu, B., Topçu, N., Trenkel, V., Tsagarakis, K., Tsangaris, C., Tserpes, G., Tuğrul, S., Uysal, Z., Vasile, D., Violaki, K., Xu, J., Yüksek, A., Papathanassiou, E. (2015). A MSFD complementary approach for the assessment of pressures, knowledge and data gaps in Southern European Seas: the PERSEUS experience. *Marine Pollution Bulletin*, in press.
- D'Alelio, D., Mazzocchi, M.G., Montresor, M., Sarno, D., Zingone, A., Di Capua, I., Franzé, G., Margiotta, F., Saggiomo, V., Ribera d'Alcalà, M. (2015). The green-blue swing: plasticity of plankton food-webs in response to coastal oceanographic dynamics. *Marine Ecology*, in press.
- Sabia, L., Zagami, G., Mazzocchi, M.G., Zambianchi, E., Uttieri, M. (2015). Spreading factors of a globally invading coastal copepod. *Mediterranean Marine Science*, in press.
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