

## Iole Di Capua



Born in Castellammare di Stabia (Naples, Italy) on 06/02/1976

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**Current Position:** Tecnologo III° livello, Technologist

**Current Affiliation:**

Motax Core Facility - Marine Organism Taxonomy - Research Infrastructures for marine biological resources Department

### Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University Parthenope of Naples	Laurea	2001	Population structure of copepods in different environmental condition
Stazione Zoologica Anton Dohrn, Napoli, Italy	Collaboration on project	1998-2000	Ecology and management of the protected area <i>Banco di Santa Croce</i> (Gulf of Naples)
Stazione Zoologica Anton Dohrn, Napoli, Italy	Collaboration on project	2001-2004	Zooplankton taxonomy and ecology (Regional monitoring Program)
Stazione Zoologica Anton Dohrn, Napoli, Italy	Temporary researcher on projects	2004-2015	Zooplankton taxonomy and ecology LTER-MC, EU-IT 061; METACOPEPOD (EU-ARISTERIA II); ABBaCo and PON Place (MIUR); ADSP (Autorità Portuale Salerno); NEREA and INPUT(SZN, Istituzionale)
Stazione Zoologica Anton Dohrn, Napoli, Italy	Senior Zooplankton analyst	2015-2021	Zooplankton taxonomy and ecology
Stazione Zoologica Anton Dohrn, Napoli, Italy	Technologist	May 2021	Zooplankton integrated taxonomy and ecology

## **Appointments and awards**

2005: Winner of GLOBEC award for Workshop on “Image analysis to count and identify zooplankton” in San Sebastian (Spain).

2006: EURO-OCEANS award to participate ZOOSCAN training Course

2006: Winner of MarBEF grant on “Taxonomy Clearing Scheme” to study taxonomy and morphology of copepods (Oncaeidae and Paracalanidae) Natural History Museum, London.

2016: Teacher of Marine Strategy Framework Directive – Zooplankton- ISPRA – Istituto Superiore per la Protezione e la Ricerca Ambientale, Roma

2018: Organizer and teacher of First Advanced Zooplankton Course - Morphological and Molecular Taxonomy of Marine Copepods (AZC1)

## **Other**

Chair-Member of International Council for the Exploration of the Sea (ICES) Working Groups:

- Integrated Morphological and Molecular taxonomy (WGIMT)
- Zooplankton Ecology (WGZE)
- Towards an EUROpean OBServatory of the non-indigenous calanoid copepod *Pseudodiaptomus marinus* and responsible of Term of Reference - Molecular identification of *Pseudodiaptomus marinus* strains occurring in different environments in European waters (WGEUROBUS)

Chair-Member of Special Committee on Oceanic Research (SCOR) Working group 157: Toward a new global view of marine zooplankton biodiversity based on DNA metabarcoding and reference DNA sequence databases (MetaZooGene)

Member of World Association of Copepodologists (WAC)

Expert Member of Check List della Fauna Italiana (Lifewatch)

Responsible of meso-zooplankton abundance, composition and biomass of Long Term Ecological Research-MareChiara (LTER-MC)

Co-coordinator of meso-zooplankton metabarcoding, metagenomic and metatranscriptomic of NEREA project.

## **Students' Supervision**

Supervisor of 5 Master's students of University Federico II, Napoli, Italy and University Tuscia, Rome, Italy.

## **Publications**

Author of 22 publications on ISI-journals (h index: 12) and 3 book chapters

## ***List of publications of the last 10 years***

### **Peer-reviewed publications:**

- Di Capua I, Piredda R, Mazzocchi MG, Zingone A (2021) Metazoan diversity and seasonality through eDNA metabarcoding at a Mediterranean long-term ecological research site. *ICES Journal of Marine Science*. <https://doi.org/10.1093/icesjms/fsab059>
- Di Capua I (2021) *Temora* Baird, 1850. ICES Identification Leaflets for Plankton No. 195. 17 pp. [doi.org/10.17895/ices.pub.7719](https://doi.org/10.17895/ices.pub.7719)
- Corinaldesi C, Canensi S, Dell'Anno A, Tangherlini M, Di Capua I, Varrella S, Willis T J, Cerrano C, Danovaro R (2021) Multiple impacts of microplastics can threaten marine habitat-forming species. *Communications biology*. [doi://www.nature.com/articles/s42003-021-01961-1](https://doi.org/10.1038/s42003-021-01961-1).
- Margiotta F, Balestra C, Buondonno A, Casotti R, D'Ambra I, Di Capua I, Gallia R, Mazzocchi MG, Merquiol L, Pepi M, Percopo I, Saggiomo M, Sarno D, Zingone A (2020) Do plankton reflect the environmental quality status? The case of a post-industrial Mediterranean Bay. *Marine Environmental Research*. 160:104980. doi: 10.1016/j.marenvres.2020.
- Catanese G, Di Capua I, Iriundo M, Bonanno A, Estomba A, Procaccini G (2020) Application of high-throughput single nucleotide polymorphism genotyping for assessing the origin of *Engraulis encrasicolus* eggs. *Aquatic Conservation: Marine Freshwater Ecosystems*. 30 (7); 1313-1324. [doi.org/10.1002/aqc.332](https://doi.org/10.1002/aqc.332).
- Uttieri M, Aguzzi, L Aiese Cigliano R, Amato A, Bojanić N, Brunetta M, Camatti E, Carotenuto Y, Damjanović T, Delpy F, de Olazabal A, Di Capua I, Falcão J, Fernandez de Puelles ML, Foti G, Garbazy O, Goruppi A, Gubanova A, Hubareva E, Iriarte A, Khanaychenko A, Lučić D, Marques SC, Mazzocchi MG, Mikuš J, Minutoli R, Pagano M, Pansera M, Percopo I, Primo AL, Svetlichny L, Rožić S, Tirelli V, Uriarte I, Vidjak O, Villate F, Wootton M, Zagami G, Zervoudaki S (2020) WGEUROBUS–Working Group “Towards a EUROpean OBServatory of the non-indigenous calanoid copepod *Pseudodiaptomus marinUS*. *Biological Invasions*. 22: 885-906. [doi.org/10.1007/s10530-019-02174-8](https://doi.org/10.1007/s10530-019-02174-8).
- Zingone A, D'Alelio D, Mazzocchi MG, Montresor M, D Sarno, C Balestra, M Cannavacciuolo, R Casotti, F Conversano, I Di Capua, D Iudicone, F Margiotta, A Passarelli, I Percopo, M Ribera d'Alcalà, M Saggiomo, V Saggiomo, F Tramontano, G Zazo (2019) Time series and beyond: multifaceted plankton research at a marine Mediterranean LTER site. *Nature Conservation*. 34: 273-310. [doi.org/10.3897/natureconservation.34.30789](https://doi.org/10.3897/natureconservation.34.30789).
- P Kasapidis, I Siokou, M Khelifi-Touhami, MG Mazzocchi, M Matthaiaki, E Christou, ML Fernandez de Puelles, A Gubanova, I Di Capua, S Batziakas, C Frangoulis. (2018). Revising the taxonomic status and distribution of the *Paracalanus parvus* species complex (Copepoda, Calanoida) in the Mediterranean and Black Seas through an integrated analysis of morphology and molecular taxonomy. *Journal of Plankton Research*. 40 (5), 595-605. [doi.org/10.1093/plankt/fby036](https://doi.org/10.1093/plankt/fby036).
- G Morabito, MG Mazzocchi, N Salmaso, A Zingone, C Bergami, G Flaim, S Accoroni, A Basset, M Bastianini, G Belmonte, F Bernardi Aubry, I M Bresciani, F Buzzi, M Cabrini, E Camatti, C Caroppo, B Cataletto, M Castellano, P Del Negro, A de Olazabal, I Di Capua, AC Elia, D Fornasaro, M Giallain, F Grilli, B Leoni, M Lipizer, L Longobardi, A Ludovisi, A Lugliè, M

- Manca, F Margiotta, MA Mariani, M Marini, M Marzocchi, U Obertegger, A Oggioni, BM Padedda, M Pansera, R Piscia, P Povero, S Pulina, T Romagnoli, I Rosati, G Rossetti, F Rubino, D Sarno, CT Satta, N Sechi, E Stanca, V Tirelli, C Totti, A Pugnetti (2018) Plankton dynamics across the freshwater, transitional and marine research sites of the LTER-Italy Network. Patterns, fluctuations, drivers. *Science Total Environ.* 627:373-387. doi: 10.1016/j.scitotenv.2018.01.153. IF: 5.589
- D D'Alelio, G. Luongo, I. Di Capua (2017). Plankton food for benthic fish: de visu evidence of trophic interaction between rainbow wrasse (*Coris julis*) and pelagic tunicates (*Pegea confoederata*). *Advances in Oceanography and Limnology.* 8 (2), 235-241. doi.org/10.4081/aiol.2017.6973.
- G Catanese, R Watteaux, I Montes, M Barra, P Rumolo, D Borme, B Buongiorno Nardelli, V Botte, MG Mazzocchi, S Genovese, I Di Capua, M Iriondo, A Estonba, P Ruggeri, V Tirelli, V Caputo-Barucchi, G Basilone, A Bonanno, D Iudicone, G Procaccini (2017). Insights on the drivers of genetic divergence in the European anchovy. *Scientific Reports.* 7(1):4180. doi: 10.1038/s41598-017-03926-z.
- I Di Capua, F Maffucci, R Pannone, MG Mazzocchi, E Biffali, A Amato (2017) Molecular phylogeny of Oncaeidae (Copepoda) using nuclear ribosomal internal transcribed spacer (ITS rDNA). *PLoS One.* 12(4). doi: 10.1371/journal.pone.0175662.
- I Di Capua and MG Mazzocchi (2017). Non-predatory mortality in Mediterranean coastal copepods. *Marine Biology* 164 (10): 198. doi.org/10.1007/s00227-017- 3212-z.
- L Sabia, I Di Capua, I Percopo, M Uttieri, A. Amato (2017). ITS2 in calanoid copepods: reconstructing phylogenetic relationships and identifying a newly introduced species in the Mediterranean. *European Journal of Zoology* 84: 104- 115. doi: 10.1080/11250003.2016.1276639.
- C Castellani, P Licandro, ES Fileman, I Di Capua, MG Mazzocchi (2016) *Oithona similis* likes it cool: evidence from two long-term time series. *Journal of Plankton Research* 38 (3), 703-717. doi:10.1093/plankt/fbv104.
- A Larsen, JK Egge, JC Nejtgaard, I Di Capua, R Thyrraug, G Bratbak, TF Thingstad (2015) Contrasting response to nutrient manipulation in Arctic mesocosms are reproduced by a minimum microbial food web model. *Limnology and Oceanography* 60(2):360-374. doi: 10.1002/lno.10025.
- D D'Alelio, MG Mazzocchi, M Montresor, D. Sarno, A Zingone, I. Di Capua, G Franzé, F Margiotta, V Saggiomo, M Ribera d'Alcalà (2015) The green-blue swing: plasticity of plankton food-webs in response to coastal oceanographic dynamics. *Marine Ecology*, 36, 1155–1170. doi: 10.1111/maec.12211.
- R Md Amin, U Båmstedt, JC Nejtgaard, I Di Capua (2012) Partition of planktonic respiratory carbon requirements during a phytoplankton spring bloom. *Marine Ecology Progress Series*, vol.451: 15-29. doi:10.3354/meps09564. IF:2.359
- MG Mazzocchi, L Dubroca, M. Ribera d'Alcalà, C. Garcia-Comas, I Di Capua, M Ribera D'Alcala (2012). Stability and resilience in coastal copepod assemblages: the case of the Mediterranean long-term ecological research at station MC (LTER-MC). *Progress in Oceanography* vol.97: 135-151. doi: 10.1016/J.Pocean.2011.003.

MG Mazzocchi, P Licandro, L Dubroca, I Di Capua, V. Saggiomo (2011). Zooplankton associations in a Mediterranean long-term time-series. *Journal of Plankton Research* vol. 33 (8): 1163-1181. <https://doi.org/10.1093/plankt/fbr017>.