DIEGO FONTANETO

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SUMMARY

Present position: Research Director
Number of publications: 225
- 170 research papers and 7 editorials in Clarivate Web of Science (WoS),
- 28 in other peer reviewed journals and proceedings series,
- 2 books, 9 book chapters, 1 book review, 8 papers of scientific divulgation.

Abstracts from meetings: 85
Editorial board membership: 7 (3 as editor in chief)
Guest editor for special issues in international ISI journals: 6
Manuscript revision: over 200, for over 100 journal titles
Invited seminars: 61, in 18 countries
Invited speaker in international conferences: 11, in 6 countries
Invited speaker in international workshops: 11, in 5 countries
Grants awarded: 29, for ~ € 2,050,000.00
Teaching experience: lectures > 100 hours; practical demonstrations and workshops > 500 hours
'Docent' for Stockholm University, Sweden
'Abilitation' as full professor and associate professor in Zoology in Italy
Member of the CITES Scientific Committee
President of the Fauna Commission of the Union of Italian Zoologists
Member of PhD scientific board: 1, Urbino, Italy
Member of PhD committees: 21, in 10 countries
PhD student supervision: 1
Masters student supervision and co-supervision: 22
Postdoc supervision: 3
Meetings and symposia organisation: 8
Chairperson at meetings: 10
Indexes evaluating scientific production:
- Google Scholar, 29th December 2021: citations = 6896; H index = 45; i10 index = 136
- WoS impact factor, total (on 177 papers in Clarivate journals) = 750.410; average = 4.240
- Q1 WoS papers: 80 out of 177
- WoS Highly Cited Papers: 6 (3 up to 2021)

Citations from Google Scholar: http://scholar.google.co.uk/citations?user=WO97K4QAAAAJ&hl=en
Citations and reviews from ResearcherID/Publons: https://publons.com/researcher/1204386/diego-fontaneto/
Citations from Scopus: https://www.scopus.com/authid/detail.uri?authorId=6602577297

RESEARCH EXPERIENCE

2012-present	**Researcher** - National Research Council, Italy
2010-2012	**NERC Advanced Research Fellow** - Imperial College London, United Kingdom. Disentangling ecological and evolutionary forces driving community composition.
2009-2010	**Forskarassistent (Research Fellow)** - Museum of Natural History, Stockholm, Sweden. Species reality of bdelloid rotifers: molecular phylogeny and geometric morphometrics of globally distributed ancient asexuals.
2007-2009	**Marie Curie Research Fellow** - Imperial College London, United Kingdom. ROTPOP – Population structure and genotype dynamics of ancient asexuals: insights from bdelloid rotifers. Host: dr. Timothy G. Barraclough.

2005-2006	**Postdoctoral Research Associate** - Università di Milano, Italy. Contribution of meiofauna to Italian marine biodiversity: the rotifers Supervisor: prof. Giulio Melone.
2003-2005	**Postdoctoral Research Associate** - Università di Milano, Italy. Anhydrobiosis as a factor affecting community structure of bdelloid rotifers. Supervisor: prof. Claudia Ricci.
2000-2003	**PhD Student** - Università di Milano, Italy. Rotifers and their jaws: trophi. Supervisor: prof. Giulio Melone.
1999-2003	**Free lance zoologist** - environmental impact assessments, habitat evaluation, agriculture pest analysis, species lists.
1998-1999	**Field Technician** - ASSA, Novara, Italy. Biological control of mosquito larvae in rice-fields.
1992-1997	**Undergraduate Student in Natural Sciences**, Università di Milano, Italy. Trophic ecology of the Little Owl, *Athene noctua*, in an agricultural landscape. Supervisors: dr. Franca Guidali, dr. Adriano Martinoli.

EDUCATION

2000-2003	**PhD in Invertebrate Biology**, Università di Milano, Italy, February 11th 2003
1992-1997	**Laurea (Master) in Natural Sciences**, Università di Milano, Italy, March 16th 1998

PUBLICATIONS

Research papers in international journals (covered by ISI Web of Science)

HCP = ISI Highly Cited Paper (citations in the top 1% of its academic field and publication year)

Di Cesare A., Riva F., Colinas N., Borgomaneiro G., Borin S., Cabello-Yeves P.J., Canale C., Cedraro N., Citterio B., Crotti E., Mangiaterra G., Mapelli F., Mondino V., Vignaroli C., Quaranta W., Corno G., Fontaneto D. & Eckert E.M., Zooplankton as a transitional host for Escherichia coli in freshwater. ***Applied and Environmental Microbiology*** submitted.

García-Gómez G., García-Herrero A., Sánchez N., Pardos F., Izquierdo-Muñoz A., Fontaneto D., Martínez A., Meiofauna is an important, yet neglected, component of biodiversity of *Posidonia oceanica*. ***Invertebrate Biology*** submitted.

Guerrieri A., Carteron A., Bonin A., Marta S., Ambrosini S., Caccianiga M., Cantera I., Compostella C., Diolaiuti G., Fontaneto D., Gielly L., Gili F., Gobbi M., Poulenard J., Taberlet P., Zerboni A., Thuiller W. & Ficetola G.F., Metabarcoding data reveal vertical multi-taxa variation in topsoil communities during the colonization of deglaciated forelands. ***Molecular Ecology*** submitted

Mammola S., Ripple W.J., Cardoso P., Chamberlain D., Di Cesare A., Corno G., Eckert E.M., Fontaneto D., Grimm V., Martínez A., Roza C.G., Ryo M., Sabatino R., Sathicq M.B., Verbrugge L.N.H. & Doubleday Z.A., The rise of incomprehensible science and how to avoid it. ***Research Policy*** submitted.

Sathicq M.B., Sabatino R., Di Cesare A., Eckert E. M., Fontaneto D., Rogora M. & Corno G., PET particles raise microbiological concerns for human health while tyre wear microplastic particles heavily affect ecosystem services in waters. ***Journal of Hazardous Materials*** submitted.

Stec D., Cancellario T. & Fontaneto D., Diversification rates in Tardigrada indicate a decreasing tempo of lineage splitting regardless of reproductive mode. ***Organisms Diversity & Evolution*** submitted.

170. Di Cesare A., Sabatino R., Yang Y., Brambilla D., Pu L., Fontaneto D., Eckert E.M. & Corno G., 2022. Contribution of plasmidome, metal resistome and integrases to the persistence of the antibiotic resistome in aquatic environments. ***Environmental Pollution*** in press.
169. Fontaneto D., Viola P., Pizzirani C., Chiesa S., Rossetti A., Amici A. & Lucentini L., 2022. Mismatches between morphology and DNA in Italian partridges may not be explained only by recent artificial release of farm-reared birds. ***Animals*** in press.

168. Sire L., Schmidt Yáñez P., Wang C., Bézier A., Courtial B., Cours J., *Fontaneto D.*, Larrieu L., Bouget C., Thorn S., Müller J., Yu D.W., Monaghan M.T., Herniou E.A. & Lopez-Vaamonde C., 2022. Climate-induced forest dieback drives compositional changes in insect communities that are more pronounced for rare species. ***Communications Biology*** in press.

167. Cakil Z.V., Garlasché G., Iakovenko N., Di Cesare A., Eckert E.M., Guidetti R., Hamdan L., Janko K., Lukashanez D., Rebecchi L., Schiaparelli S., Sforzi T., Kašparová E.S., Velasco-Castrillon A., Walsh E. & *Fontaneto D.*, 2021. Comparative phylogeography reveals consistently shallow genetic diversity in a mitochondrial marker in Antarctic bdelloid rotifers. ***Journal of Biogeography*** 48: 1797-1809.
166. Cecchetto M., Di Cesare A., Eckert E. M., Fassio G., *Fontaneto D.*, Moro I., Oliverio M., Sciuto K., Tassistro G., Vezzulli L. & Schiaparelli S., 2021. Antarctic coastal nanoplankton dynamics revealed by metabarcoding of desalination plant filters: detection of short-term events and implications for routine monitoring. ***Science of the Total Environment*** 757: 143809.
165. Eckert E.M., Anicic N. & *Fontaneto D.*, 2021. Freshwater zooplankton microbiota composition is highly flexible and strongly influenced by the environment. ***Molecular Ecology*** 30: 1545-1558.
164. Ficetola G.F., Marta S., Guerrieri A., Gobbi M., Ambrosini R., *Fontaneto D.*, Zerboni A., Poulenard J., Caccianiga M. & Thuiller W., 2021. Dynamics of ecological communities following the current retreat of glaciers. ***Annual Review of Ecology, Evolution, and Systematics*** 52: 405-426.
163. *Fontaneto D.*, Martinez A., Mammola S. & Marchetto A., 2021. The use of the term 'limnology' and its scientometrics consequences for limnologists. ***Journal of Limnology*** 80: 2042.
162. Galafassi S., Sabatino R., Sathicq M.B., Eckert E.M., *Fontaneto D.*, Dalla Fontana G., Mossotti R., Corno G., Volta P. & Di Cesare A., 2021. Contribution of microplastic particles to the spread of resistances and pathogenic bacteria in treated wastewaters. ***Water Research*** 201: 117368.
161. Gielings R., Fais M., *Fontaneto D.*, Creer S., Oliveira Costa F., Renema W. & Macher J.N., 2021. DNA metabarcoding methods for the study of marine benthic meiofauna: a review. ***Frontiers in Marine Science*** 8: 730063.
160. Jaturapruek R., *Fontaneto D.* & Maiphae S., 2021. The influence of environmental variables on bdelloid rotifers of the genus *Rotaria* in Thailand. ***Journal of Tropical Ecology*** 36: 267-274.
159. Jaturapruek R., *Fontaneto D.*, Mammola S. & Maiphae S., 2021. Potential niche displacement in species of aquatic bdelloid rotifers between temperate and tropical areas. ***Hydrobiologia*** 848: 4903-4918.
158. Magoga G., *Fontaneto D.* & Montagna M., 2021. Factors affecting the efficiency of molecular species delimitation in a species-rich insect family. ***Molecular Ecology Resources*** 21: 1475-1489.
157. Mammola S., *Fontaneto D.*, Martínez A. & Chichorro F., 2021. Impact of the reference list on the number of citations of ecological papers. ***Scientometrics*** 126: 785-799.
156. Marchetto A., Boggero A., *Fontaneto D.*, Lami A., Lotter A. F., Manca M.M., Massaferro J., Musazzi S., Nikus U., Psenner R., Rogora M., Thies H. & Tolotti M., 2021. Living organisms and sedimentary remains from high mountain lakes in the Alps. ***Journal of Limnology*** 80: 2036.
155. Martinez A., García-Gómez G., García-Herrero A., Sánchez N., Pardos F., Izquierdo-Muñoz A., *Fontaneto D.* & Mammola S., 2021. Habitat differences filter functional diversity of low dispersive microscopic animals. ***Hydrobiologia*** 848: 2681-2698.
154. Nowell R.W., Wilson C.G., Almeida P., Schiffer P.H., *Fontaneto D.*, Becks L., Rodriguez F., Arkhipova I.R. & Barraclough T.G., 2021. Evolutionary dynamics of transposable elements in bdelloid rotifers. ***eLife*** 10: e63194.
153. Rimskaya-Korsakova N., *Fontaneto D.*, Galkin S., Malakhov V., Martínez A., 2021. Geochemistry drives the allometric growth of the hydrothermal vent tubeworm *Riftia pachyptila* (Annelida: Siboglinidae). ***Zoological Journal of the Linnean Society*** 193: 182-294.
152. Schanz F.R., Sommer S., Lami A., *Fontaneto D.* & Ozgul A., 2021. Life-history responses of a freshwater rotifer to copper pollution. ***Ecology & Evolution*** 11: 10947-10955.
151. Terzi M., *Fontaneto D.* & Casella F., 2021. Effects of *Ailanthus altissima* invasion and removal on the Mediterranean grasslands of the Alta Murgia National Park (Italy). ***Environmental Management*** in press.
150. Xu Shao-Lin, Martínez A., Schwentner M., *Fontaneto D.*, Dumont H.J. & Kotov A.A., 2021. Mitogenomics of Cladocera (Branchiopoda): marked gene order rearrangements and independent predation roots. ***Molecular Phylogenetics and Evolution*** 164: 107275.

149. Bartels P.J., *Fontaneto D.*, Roszkowska M., Nelson D.R. & Kaczmarek L., 2020. Microscopic marine tardigrades follow Bergmann's Rule. ***Zoological Journal of the Linnean Society*** 188: 820-838.
148. Bettinetti R., Zaupa S., *Fontaneto D.* & Boggero A., 2020. Biological, chemical, and ecotoxicological1assessments using benthos provide different and complementary measures of lake ecological status. ***Water*** 12: 1140.
147. Boggero A., Zaupa S., Bettinetti R., Ciampittiello M. & *Fontaneto D.*, 2020. The Benthic Quality Index to assess water quality of lakes may be affected by confounding environmental features. ***Water*** 12: 2519.
146. Curini-Galletti M., Artois T., Di Domenico M., *Fontaneto D.*, Jondelius U., Jörger K.M., Leasi F., Martínez A., Norenburg J.L., Sterrer W. & Todaro M.A., 2020. Contribution of soft-bodied meiofaunal taxa to Italian marine biodiversity. ***European Zoological Journal*** 87: 369-384.
145. Di Cesare A., De Carluccio M., Eckert E.M., *Fontaneto D.*, Fiorentino A., Corno G., Prete P., Cucciniello R., Proto A. & Rizzo L., 2020. Combination of flow cytometry and molecular analysis to monitor the effect of UVC/H_2O_2 vs UVC/H_2O_2/Cu-IDS processes on pathogens and antibiotic resistant genes in secondary wastewater effluents. ***Water Research*** 184: 116194.
144. Eckert E.M., Amalfitano S., Di Cesare A., Manzari C., Corno G. & *Fontaneto D.*, 2020. Different substrates within a lake harbour connected but specialised microbial communities. ***Hydrobiologia*** 847: 1689-1704.
143. Eckert E.M., Di Cesare A., *Fontaneto D.*, Berendonk T.U., Bürgmann H., Cytrin E., Fatta-Kassinos D., Franzetti A., Larsson D.C.J., Manaia C.M., Pruden A., Singer A.C., Udikovic-Kolic N. & Corno G., 2020. Every fifth published metagenome is not available to science. ***PLoS Biology*** 18: e3000698.
142. Gansfort B., *Fontaneto D.* & Zhai M., 2020. Meiofauna as a model to test paradigms of ecological metacommunity theory. ***Hydrobiologia*** 847: 2645-2663.
141. López C., Soto L.M., Lafuente W., Stamou G., Michaloudi E., Papakostas S. & *Fontaneto D.*, 2020. Rotifera from inland water bodies of continental Ecuador and Galápagos Islands: An updated checklist. ***Zootaxa*** 4768: 551-564.
140. Martínez A., Di Cesare A., Mari-Mena N., García-Gómez G., Garcia-Herrero A., Corno G., *Fontaneto D.* & Eckert E.M., 2020. Tossed 'good luck' coins as vectors for anthropogenic pollution into aquatic environment. ***Environmental Pollution*** 259: 113800.
139. Martínez A., Eckert E.M., Artois T., Careddu G., Casu M., Curini-Galletti M., Gobert S., Ivanenko V.N., Jondelius U., Marzano M., Pesole G., Zanello A., Todaro M.A., *Fontaneto D.*, 2020. Human access impacts biodiversity of microscopic animals in sandy beaches. ***Communications Biology*** 3: 175.
138. ***HCP 2020*** Piano E., Souffreau C., Merckx T., Baardsen L.F., Backeljau T., Bonte D., Brans K.I., Cours M., Dahirel M., Debortoli N., De Wolf K., Engelen J.M.T., *Fontaneto D.*, Gianuca A.T., Govaert L., Hanashiro F.T., Higuti J., Lens L., Martens K., Matheve H., Matthysen E., Pinseel E., Sablon R., Schön I., Stocks R., Van Doninck K., Van Dyck H., Vanormelingen P., van Wichelen J., Vyverman W., De Meester L. & Hendrickx F., 2020. Urbanization drives cross-taxon declines in abundance and diversity at multiple spatial scales. ***Global Change Biology*** 26: 1196-1211.
137. Sabatino R., Di Cesare A., Dzhembekova N., *Fontaneto D.*, Eckert E.M., Corno G., Moncheva S., Bertoni R., Callieri C., 2020. Spatial distribution of antibiotic and heavy metal resistance genes in the Black Sea. ***Marine Pollution Bulletin*** 160: 111635.
136. Schenk J. & *Fontaneto D.*, 2020. Biodiversity analyses in freshwater meiofauna through DNA sequence data. ***Hydrobiologia*** 847: 2597-2611.

135. Corno G., Yang Y., Eckert E.M., *Fontaneto D.*, Fiorentino A., Galafassi S., Zhang T. & Di Cesare A., 2019. Effluents of wastewater treatment plants promote the rapid stabilization of the antibiotic resistome in receiving freshwater bodies. ***Water Research*** 158: 72-81.
134. Eckert E.M., Quero G.M., Di Cesare A., Manfredini G., Mapelli F., Borin S., *Fontaneto D.*, Luna G.M. & Corno G., 2019. Antibiotic disturbance affects aquatic microbial community composition and foodweb interactions but not community resilience. ***Molecular Ecology*** 28: 1170-1182.
133. Fiorentino A., Di Cesare A., Eckert E.M., Rizzo L., *Fontaneto D.*, Yang Y. & Corno G., 2019. Impact of industrial wastewater on the dynamics of antibiotic resistance genes in a full-scale urban wastewater treatment plant. ***Science of the Total Environment*** 646: 1204-1210.
132. *Fontaneto D.*, 2019. Long-distance passive dispersal in microscopic aquatic animals. ***Movement Ecology*** 7: 10.

131. *Fontaneto D.*, Eckert E.M., Anicic N., Lara E. & Mitchell E.A.D., 2019. We are ready for faunistic surveys of bdelloid rotifers through DNA barcoding: the example of *Sphagnum* bogs of the Swiss Jura Mountains. ***Limnetica*** 38: 213-225.
130. García Roger E.M., Lubzens E., *Fontaneto D.* & Serra M., 2019 Facing adversity: dormant embryos in rotifers. ***Biological Bulletin*** 237: 119-144.
129. Kaczmarek Ł., Roszkowska M., *Fontaneto D.*, Jezierska M., Pietrzak B., Wieczorek R., Poprawa I., Kosicki J.Z., Karachitos A. & Kmita H., 2019. Staying young and fit? Ontogenetic and phylogenetic consequences of animal anhydrobiosis. ***Journal of Zoology*** 309: 1-11.
128. Loy A., Aloise G., Ancillotto L., Angelici F. M., Bertolino S., Capizzi D., Castiglia R., Colangelo P., Contoli L., Cozzi B., *Fontaneto D.*, Lapini L., Maio N., Monaco A., Mori E., Nappi A., Podestà M. A., Sarà M., Scandura M., Russo D., Amori G., 2019. Mammals of Italy: an annotated checklist. ***Hystrix*** 30: 87-106.
127. Martínez A., Di Domenico M., Leasi F., Curini-Galletti M., Todaro M. A., Dal Zotto M., Gobert S., Artois T., Norenburg J., Jörger K. M., Núñez J., *Fontaneto D.* & Worsaae K., 2019. Patterns of diversity and endemism of soft-bodied meiofauna in an oceanic island, Lanzarote, Canary Islands. ***Marine Biodiversity*** 49: 2033-2055.
126. Sommer S., *Fontaneto D.* & Ozgul A., 2019. Demographic mechanisms underlying fitness restoration in bdelloid rotifers emerging from dehydration. ***Freshwater Biology*** 64: 1295-1302.
125. Zawierucha K., Buda J., *Fontaneto D.*, Ambrosini R., Franzetti A., Wierzgoń M., Bogdziewicz M., 2019. Fine-scale spatial heterogeneity of invertebrate densities within cryoconite holes. ***Aquatic Ecology*** 53: 179-190.
124. Zeppilli D., Bellec L., Cambon-Bonavita M.-A., Decraemer W., *Fontaneto D.*, Fuchs S., Gayet N., Mandon P., Michel L., Portail M., Smol N., Sørensen M.V., Vanreusel A. & Sarrazin J., 2019. Ecology and trophic role of *Oncholaimus dyvae* sp. nov. (Nematoda: Oncholaimidae) from the lucky strike hydrothermal vent field (Mid-Atlantic Ridge). ***BMC Zoology*** 4: 6.

123. Aranguiz-Acuna A., Perez-Portilla P, de La Fuente A. & *Fontaneto D.*, 2018. Life-history strategies in zooplankton promote coexistence of competitors in extreme environments with high metal content. ***Scientific Reports*** 8: 11060.
122. Di Cesare A., Petrin S., *Fontaneto D.*, Losasso C., Eckert E., Tassistro G., Borello A., Ricci A., Wilson W., Pruzzo C. & Vezzulli L., 2018. ddPCR applied on CPR samples reveals long-term occurrence and spread of antibiotic resistance genes and class 1 integrons carrying bacteria in the marine plankton community. ***Environmental Microbiology Reports*** 10: 458-464.
121. ***HCP 2018-2020*** Eckert E.M., Di Cesare A., Kettner M.T., Arias-Andrés M., *Fontaneto D.*, Grossart H.-P., Corno G., 2018. Microplastics increase impact of treated wastewater on freshwater microbial community. ***Environmental Pollution*** 234: 495-502.
120. Fiorentino A., Cucciniello R., Di Cesare A., *Fontaneto D.*, Prete P., Rizzo L., Corno G. & Proto A., 2018. Disinfection of urban wastewater by a new photo-Fenton like process using Cu-iminodisuccinic acid complex as catalyst at neutral pH. ***Water Research*** 146: 206-215.
119. Fonseca G., *Fontaneto D.* & Di Domenico M., 2018. Addressing biodiversity shortfalls in meiofauna. ***Journal of Experimental Marine Biology and Ecology*** 502: 26-38.
118. Gonzalez B.C., Worsaae K., *Fontaneto D.* & Martinez Garcia A., 2018. Anophthalmia and elongation of body appendages in cave scale worms (Aphroditiformia, Annelida). ***Zoologica Scripta*** 47: 106-121.
117. Ivanenko V.N., Hoeksema B., Nikitin M.A., Mudrova S.V., Martínez A., Rimskaya-Korsakova N., Berumen M.L. & *Fontaneto D.*, 2018. Lack of host specificity of copepod crustaceans associated with mushroom corals in the Red Sea. ***Molecular Phylogenetics and Evolution*** 127: 770-780.
116. Jaturapruek R., *Fontaneto D.*, Meksuwan P., Pholpunthin P. & Maiphae S., 2018. Planktonic and periphytic bdelloid rotifers from Thailand reveal a species assemblage with a combination of cosmopolitan, tropical, and yet undescribed species. ***Systematics and Biodiversity*** 16: 128-141.
115. Leese F., Bouchez A., Abarenkov K., Altermatt F., Borja A., Bruce K., Ekrem T., Čiampor Jr F., Čiamporová-Zatovičová Z., Costa F.O., Duarte S., Elbrecht V., *Fontaneto D.*, Geiger M.F., Hering D., Kahlert M., Kalamujić Stroil B., Kelly M., Keskin E., Liska I., Mergen P., Meissner K., Pawlowski J., Penev L., Reyjol Y., Rotter A., Steinke D., Vitecek S., Zimmermann J., Weigand A.M., 2018. Why we need sustainable networks bridging countries, disciplines, cultures and generations for aquatic biomonitoring 2.0: A perspective derived from the DNAqua-Net COST Action. ***Advances in Ecological Research*** 58: 63-99.

114. Liu P., Xu L., Xu S., Martinez A., Chen H., Cheng D., Dumont H.J., Han B.-P. & Fontaneto D., 2018. Species and hybrids in the genus *Diaphanosoma* Fischer, 1850 (Crustacea: Branchiopoda: Cladocera). ***Molecular Phylogenetics and Evolution*** 118: 369-378.
113. Losasso C., Di Cesare A., Mastrorilli E., Patuzzi I., Cibin V., Eckert E.M., Fontaneto D., Vanzo A., Ricci A. & Corno G., 2018. Assessing antibiotic resistance gene load in vegan, vegetarian and omnivore human gut microbiota. ***International Journal of Antimicrobial Agents*** 52: 702-705.
112. Magoga G., Sahin D.C., Fontaneto D. & Montagna M., 2018. Barcoding of Chrysomelidae of Euro-Mediterranean area: efficiency and problematic species. ***Scientific Reports*** 8: 13398.
111. ***HCP 2019-2020*** Merckx T., Souffreau C., Kaiser A., Baardsen L.F., Backeljau T., Bonte D., Brans K.I., Cours M., Dahirel M., Debortoli N., De Wolf K., Engelen J.M.T., Fontaneto D., Gianuca A.T., Govaert L., Hendrickx F., Higuti J., Lens L., Martens K., Matheve H., Matthysen E., Piano E., Sablon R., Shon I., Van Doninck, De Meester L. & Van Dyck H., 2018. Body size shifts in aquatic and terrestrial urban communities. ***Nature*** 558: 113-116.
110. Nowell R.W., Almeida P., Wilson C.G., Smith T.P., Fontaneto D., Crisp A., Micklem G., Tunnacliffe A., Boschetti C. & Barraclough T.G., 2018. Comparative genomics of bdelloid rotifers: insights from desiccating and nondesiccating species. ***PLoS Biology*** 16: e2004830.
109. Obertegger U., Cieplinski A., Fontaneto D. & Papakostas S., 2018. Mitonuclear discordance as a confounding factor in the DNA taxonomy of monogonont rotifers. ***Zoologica Scripta*** 47: 122-132.
108. Shelyakin P.V., Garushyants S.K., Nikitin M.A., Moudrova S.V., Berumen M., Speksnijder A.G.C.L., Hoeksema B.W., Fontaneto D., Gelfand M.S. & Ivanenko V.N., 2018. Microbiomes of gall-inducing copepod crustaceans from the corals *Stylophora pistillata* (Scleractinia) and *Gorgonia ventalina* (Alcyonacea). ***Scientific Reports*** 8: 11563.
107. Singer D., Kosakyan A., Seppey C.V.W., Pillonel A., Fernandez L.D., Fontaneto D., Mitchell E.A.D. & Lara E., 2018. Environmental filtering and phylogenetic clustering correlate with the distribution patterns of cryptic protist species. ***Ecology*** 99: 904-914.
106. Zawierucha K., Gąsiorek P., Buda J., Uetake J., Janko K. & Fontaneto D., 2018. Tardigrada and Rotifera from moss microhabitats on a disappearing Ugandan glacier with the description of a new species of water bear. ***Zootaxa*** 4392: 311-328.
105. ***HCP 2018-2019*** Zeppilli D., Leduc D., Fontanier C., Fontaneto D., Fuchs S., Gooday A.J., Goineau A., Ingels J., Ivanenko V.N., Kristensen R.M., Cardoso Neves R., Sanchez Santos N., Sandulli R., Sarrazin J., Sørensen M.V., Tasiemski A., Vanreusel A., Autret M., Bourdonnay L., Claireaux M., Coquillé V., De Wever L., Rachel D., Marchant J., Toomey L. & Fernandes D., 2018. Characteristics of meiofauna in extreme marine ecosystems: a review. ***Marine Biodiversity*** 48: 35-71.

104. Callieri C., Corno G., Contesini M., Fontaneto D. & Bertoni R., 2017. Transparent exopolymer particles (TEP) are driven by chlorophyll a and mainly confined to the euphotic zone in a deep subalpine lake. ***Inland Waters*** 7: 118-127.
103. Colangelo P., Fontaneto D., Marchetto A., Ludovisi A., Basset A., Bartolozzi L., Bertani I., Campanaro A., Cattaneo A., Cianferoni F., Corriero G., Ficetola G.F., Nonnis-Marzano F., Pierri C., Rossetti G. & Boggero A., 2017. Alien species in Italian freshwater habitats: a macroecological assessment of invasion drivers. ***Aquatic Invasions*** 12: 299-309.
102. Fontaneto D., Panisi M., Mandrioli M., Montardi, Pavesi M. & Cardini A.L., 2017. Estimating the magnitude of morphoscapes: how to measure the morphological component of biodiversity in relation to habitats using geometric morphometrics. ***The Science of Nature - Naturwissenschaften*** 104: 55.
101. Gabaldon C., Fontaneto D., Montero-Pau J., Carmona M.J. & Serra M., 2017. Ecological differentiation in cryptic rotifer species: what we can learn from the *B. plicatilis* complex. ***Hydrobiologia*** 796: 7-18.
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Book reviews

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Gobbi M., *Fontaneto D.*, Ferretti G. & Groppali R., 2005. Carabid Beetles (Arthropoda, Insecta) of the protected area Lanca di Soltarico (Parco Regionale Adda Sud, Lombardia, Italia). ***Pianura*** 19: 107-119. [in Italian]
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Fontaneto D. & Guidali F., 2001. Biodiversity and structure of ground beetle species assemblages in a rural system. ***Bollettino di Zoologia agraria e Bachicoltura*** Serie II 33: 53-62. [in Italian]
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Fontaneto D., Guidali F. & Scali S., 1999. Parasitism and necrophagy of two leeches species on *Bufo bufo*. In: Miaud C. & Guyétant R. (eds.). ***Advances in Herpetology***. Le Bourget du Lac/France S.E.H. 1998, pp. 111-114.
Guidali F., Scali S., Carettoni A. & *Fontaneto D.*, 1999. Feeding habits, niche breadth and seasonal dietary shift of *Rana dalmatina* in Northern Italy. In: Miaud C. & Guyétant R. (eds.). ***Advances in Herpetology***. Le Bourget du Lac/France S.E.H. 1998, pp. 137-142.

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Cardini A., *Fontaneto D.*, Mandrioli M. & Panisi M., 2018. Morphoscape ecology: assessing the variability of beetle forms across habitats. Science Trends 9112.
Fontaneto D. & Brodie J., 2010. BioSyst symposium on the The importance of being small: does size matter in biogeography? The Systematist 31: 8-10.
Fontaneto D. & Brodie J., 2009. Symposium summary. The importance of being small: does size matter in biogeography? One-day symposium at Systematics, the First BioSyst conference – Leiden, The Netherlands, 13th August 2009. Frontiers of Biogeography 1.2: 46-47.
Fontaneto D. & Westberg M., 2009. Life in a lichen: apparent death and resurrection of bdelloid rotifers. Fauna och Flora 104.4: 20-24. [in Swedish]
Fontaneto D., 2008. Marine rotifers: an unexplored world of richness. Global Marine Environment, JMBA 5: 4-5.
Fontaneto D. & Hortal J., 2008. Perspectives in biogeography: Do microorganisms have biogeography? International Biogeography Society newsletter 6.2: 3-8.

Fontaneto D., 2003. Assesment of stream quality. In: Agazzone M., Bellini E., Ceratti M., Pastore A.M., Salvini A. & Ussia S. (a cura di), Borgomanero da bere. Quaderni Borgomaneresi e del Territorio. 6. Roberto Vecchi Editore, Borgomanero: 35-37. [in Italian]

Fontaneto D., 2000. So close and so far away: the world of beetles. Parchi e riserve naturali, le aree protette della Lombardia. Anno II n° 3 luglio/agosto: 16-19. [in Italian]

SCIENTIFIC INTERESTS AND ACHIEVEMENTS

I am interested in biodiversity; I analyse the patterns surveying what is out in the field and use statistical and experimental approaches to infer the processes that originate and maintain biological diversity. My main research fields include speciation and macroecology, mostly using as a test case microscopic invertebrates like rotifers.

Speciation. The evolution of distinct species in animals has often been considered a property solely of sexually reproducing organisms. My work, in collaboration with colleagues in different countries, supports the hypothesis that a notorious group of asexual (=parthenogenetic) animals, the bdelloid rotifers, has diversified into distinct species, with patterns equivalent to those found in sexual groups. With combined analysis of morphology and DNA sequence data, we continuously confirm independent evolution of species in bdelloids. Moreover, we could infer the most important process in driving such divergence, namely ecological divergence by natural selection and geographic isolation. These results, implemented in a comparison between sexual and asexual animals, show that sex is not the sole and necessary condition for speciation; if anything, asexuals exhibit larger diversity than sexuals in rotifers. The outcome of this line of research had a wide resonance on the public, with many newspapers and magazines reporting on it (e.g. UK: The Times, The Daily Telegraph, Metro, The Economist; Italy: La Repubblica, Le Scienze; Spain: El Pais; Czech Republic: Lidovky; Germany: GEO Magazine), and hundreds of blogs and web pages discussing our results.

Macroecology: Patterns of diversity in microscopic organisms are hypothesised to differ from macroscopic ones, as small size, desiccation tolerance, and dispersal capability should allow micro-organisms to achieve global distributions. Along this line of research I test the predictions of the ubiquity hypothesis for diversity using traditional taxonomy and molecular taxonomy of microscopic animals at different spatial scales and in different habitats, both marine and continental. My results suggest that geographic isolation may act in shaping diversity also in microscopic animals. The results of this topic are summarised in a book I edited on the biogeography of microscopic organisms.

Diversity: I am interested in obtaining reliable estimates of diversity, using traditional taxonomy, DNA taxonomy, and metabarcoding at the species, population, and community level using different animal groups as test-cases. The main aim of this line of research is the empirical evaluation of biological diversity in our rapidly changing world.

I have also supplied expertise on a wide range of other topics, such as taxonomy, faunistic, electron microscopy, conservation and ecology of endangered animals, ecotoxicology, environmental microbiology, and the impact of climate change and human impact on terrestrial and aquatic invertebrate communities.

EDITORIAL ACTIVITIES

Current Editorial Board Membership

Biogeographia, Editor-in-chief, (2015 -)
Hydrobiologia, Associate Editor (2012 -), Associate Editor in Chief (2016 -)
Journal of Limnology, Editor (2012 -), Editor in Chief (2017 -)

Past Editorial Board Membership

BMC Ecology & Evolution, Associate Editor (2021)
Diversity, Associate Editor (2020 - 2021)
European Zoological Journal (formerly Italian Journal of Zoology), Assistant Editor (2012 - 2015), Editor (2016 - 2017)
PLoS ONE, Academic Editor (2012 - 2016).

Guest Editor

Martens K., Thomaz S.M., *Fontaneto D.* & Naselli-Flores L. 2020. *Hydrobiologia* 847(7): Emerging Trends in Aquatic Ecology III.

Declerck S.A.J., *Fontaneto D.*, Hochberg R. & Snell T.W., 2019. *Hydrobiologia* 844: Crossing Disciplinary Borders in Rotifer Research.

Devetter M., *Fontaneto D.*, Jersabek C.D., Mark Welch D.B., May L. & Walsh E. 2017. *Hydrobiologia* 796: Evolving Rotifers, evolving science.

Martens K., Thomaz S.M., *Fontaneto D.* & Naselli-Flores L. 2017. *Hydrobiologia* 800: Emerging Trends in Aquatic Ecology II.

Fontaneto D. & Schiaparelli S. 2015. *Hydrobiologia* 761: Biology of the Ross Sea and surrounding areas in Antarctica.

Boggero A, *Fontaneto D.*, Morabito G. & Volta P. 2014. *Journal of Limnology* 73 (s1): Limnology in the 21st Century. Celebrating 75 years of ecological research in Pallanza.

Manuscript Review

Acta Biologica; Acta Zoologica; Acta Zoologica Hungarica; African Journal of Biotechnology; Agricultural Science Research Journal; Animals; Annals of the Brazilian Academy of Sciences; Antarctic Science; Applied Sciences; Aquaculture Research; Aquatic Biology; Aquatic Ecology; Aquatic Invasions; Belgian Journal of Zoology; Biodiversity and Conservation; Biodiversity Data Journal; Biologia (Bratislava); Biological Journal of the Linnean Society; Biology Letters; BMC Biology; BMC Ecology; BMC Evolutionary Biology; Contributions to Zoology; Diversity; Diversity and Distributions; Earth System Science Data; Ecography; Ecological Indicators; Ecology Letters; Ecosphere; Environmental Pollution; Estuarine, Coastal and Shelf Science; Fisheries Research; Freshwater Biology; Freshwater Science; Frontiers in Microbiology; Frontiers in Zoology; Global Ecology & Biogeography; Global Research Journal of Microbiology; Hidrobiologica; Hydrobiologia; Insect Conservation & Diversity; Insect Science; International Journal of Limnology; International Journal for Parasitology: Parasites and Wildlife; International Review of Hydrobiology; Invertebrate Biology; ISME Journal; Italian Journal of Zoology; Journal of Biogeography; Journal of Earth System Science; Journal of Ethology; Journal of Evolutionary Biology; Journal of Experimental Marine Biology and Ecology; Journal of Food Science; Journal of Freshwater Ecology; Journal of Heredity; Journal of Limnology; Journal of the Marine Biological Association UK; Journal of Plankton Research; Journal of Zoological Systematics and Evolutionary Research; Journal of Zoology; Knowledge and Management of Aquatic Ecosystems; Limnologica; Limnology & Oceanography; Marine and Freshwater Behaviour and Physiology; Marine & Freshwater Research; Marine Genomics; Marine Geology; MetaBarcoding & MetaGenomics; Methods in Ecology & Evolution; Microbial Ecology; Molecular Biology & Evolution; Molecular Ecology; Molecular Ecology Resources; Molecular Phylogenetics & Evolution; Natural History Sciences; Nature Microbiology; Naturwissenschaften; New Zealand Journal of Zoology; Oecologia; Oikos; Opuscula Zoologica; Organisms, Diversity & Evolution; Palynology; Pedobiologia; PeerJ; Philippine Journal of Science; Philosophical Transactions of the Royal Society of London B; PLoS ONE; Polar Biology; Proceedings of the Academy of Natural Sciences; Proceedings of the Biological Society of Washington; Proceedings of the Royal Society of London – B Biological Sciences; Raffles Bulletin of Zoology; Science Bulletin; Science of the Total Environment; Scientific Reports; Soil Biology and Biochemistry; Spixiana; Systematics and Biodiversity; Tropical Ecology; Tropical Zoology; Turkish Journal of Fisheries and Aquatic Sciences; Water Research; Zoologica Scripta; Zoological Journal of the Linnean Society; Zoological Studies; Zoologischer Anzeiger; Zoology & Ecology; Zoomorphology; Zookeys; Zoosystema; Zootaxa.

GRANT REVIEW

Austrian Science Fund (FWF), Austria
California Sea Grant, USA
CONACYT Mexico
Czech Science Foundation, Czech Republic
EU MSCA Fellowship
Fulbright Romania
Icelandic Research Fund, IRS Rannis, Iceland
Latvian Council of Science
National Research Agency, ANR, France

National Science Center, Poland
NERC, Natural Environment Research Council, UK
Norwegian Research School in Biosystematics
OTKA, Hungary National Research
Research Foundation Flanders, Belgium
University of Parma, Italy
University of Insubria, Italy
University of Trieste, Italy
Vinci, Italian-French fellowship
VQR 2011-2014, Italy

TEACHING EXPERIENCES

Courses

- Contract Professor for Zoology at the University of Piemonte Orientale, Alessandria, Italy, 2021/22; 48 hours.
- Lectures and demonstrations for online Physalia course "Introductory statistics with R", online, October 25th - 28th 2021; 24 hours.
- Lectures and demonstrations for TerreLogiche course "Introductory statistics with R", online, April 7th - 9th 2021; 18 hours.
- Lectures and demonstrations for TerreLogiche course "Introductory statistics with R", online, November 4th - 6th 2020; 18 hours.
- Lectures and demonstrations for online Physalia course "Introductory statistics with R", based at Hradec Kralove, Lodz, Poland, October 26th - 29th 2020; 24 hours.
- Lectures and demonstrations for TerreLogiche course "Introductory statistics with R" online, May 4th - 6th 2020; 18 hours.
- Lectures and demonstrations for TerreLogiche course "Statistics and molecular ecology with R" for CNR-IBBR Portici, February 10th-14th 2020; 35 hours.
- Lectures and demonstrations for Physalia course "Introductory statistics with R" at Spala, Lodz, Poland, January 13th - 16th 2020; 28 hours.
- Lectures for Masters course in Biology on "Marine Ecology" at Fribourg University, Switzerland, December 5th - 6th 2019; 8 hours.
- Lectures and demonstrations for TerreLogiche course "Introductory statistics with R" at Milan, Italy, November 6th - 8th 2019; 18 hours.
- Lectures and demonstrations for the Physalia course "Molecular phylogenies for biodiversity" at Lodz University, Lodz, Poland, July 15th - 18th 2019; 17 (lecture) + 15 (practical) hours.
- Lectures and demonstrations for the course for PhD students "DNA barcoding and taxonomy" at Kasetsart University Bangkok, Thailand, May 17th 2019; 1 (lecture) + 2 (practical) hours.
- Lectures for Masters course in Biology on "Marine Ecology" at Fribourg University, Switzerland, November 22nd - 23rd 2018; 8 hours.
- Lectures and demonstrations for TerreLogiche course "Introductory statistics with R" at Milan, Italy, November 7th - 9th 2018; 18 hours.
- Lectures and demonstrations for the Physalia course "Molecular phylogenies for biodiversity" at Berlin, Germany, April 9th - 13th 2018; 20 (lecture) + 15 (practical) hours.
- Lectures and demonstrations for the course for PhD students "Molecular phylogenies in ecology" at Jagiellonian University Krakow, Poland, October 16th - 18th 2017; 10 (lecture) + 14 (practical) hours.
- Lectures and demonstrations for the course for PhD students "Molecular ecology: tools and techniques for ecological analyses" at University of Milano, Italy, May 30th - June 8th 2017; 10 (lecture) + 15 (practical) hours.
- Lectures and demonstrations for the workshop "Molecular phylogenetics in Ecology" at Universidad Catolica del Norte, Antofagasta, Chile, March 21st-22nd 2017: 6 (lecture) + 10 (practical) hours.

- Lectures and demonstrations for the workshop "Phylogenetic methods in Aquatic Ecology" at UNAM Mexico City, Iztacal Campus, Mexico, September 19th-22nd 2016: 8 (lecture) + 24 (practical) hours.
- Lectures and demonstrations for the workshop "Morphological taxonomy of bdelloid rotifers" at UNAM Mexico City, Iztacal Campus, Mexico, September 12th-15th 2016: 8 (lecture) + 24 (practical) hours.
- Lectures and demonstrations for the workshop "Molecular methods in Aquatic Ecology" at AIOL-SItE PhD student meeting, Trieste, June 15th-17th 2016: 4 hours (lecture + practical).
- Lectures and demonstrations for the course "Geometric morphometrics for biologists" at Kasetsart University, Bangkok, Thailand, February 29th 2016: 2 (lecture) + 2 (practical) hours.
- Lectures and demonstrations for the course for PhD students "Molecular ecology: tools and techniques for ecological analyses" at University of Milano, Italy, October 21st-29th 2015; 10 (lecture) + 15 (practical) hours.
- Lectures and demonstrations for the course "Phylogenies in ecology" at Moscow State University, Moscow, Russia, May 12th-13th 2015; 4 (lecture) + 8 (practical) hours.
- Lectures and demonstrations for the course for PhD students "Molecular ecology: tools and techniques for ecological analyses" at University of Milano, Italy, September 10th-16th 2014; 10 (lecture) + 15 (practical) hours.
- Lectures and demonstrations for the course "Phylogenies in ecology focusing on rotifers" at Prince of Songhkla University, Hat Yai, Thailand, July 22nd-25th 2014; 6 (lecture) + 18 (practical) hours.
- Lectures and demonstrations for the course "Obtaining and using phylogenies in ecology" at iFremer, Brest, France, April 14th-16th 2014; 4 (lecture) + 6 (practical) hours.
- Lectures and demonstrations for the course for PhD students "Molecular ecology: tools and techniques for ecological analyses" at University of Milano, Italy, October 1st-17th 2012; 10 (lecture) + 15 (practical) hours.
- Lectures and demonstrations for the workshop "Molecular ecology of meiofauna: from DNA extraction to phylogenetic analyses" at Senckenberg Research Institute, DZMB, Willelmshaven, Germany, April 21st-25th 2008; 10 (lecture) + 26 (practical) hours.
- Contract Professor for Animal Biology at the Faculty of Agricultural Sciences of University of Milano, Italy, 2006/07; 24 (lecture) + 16 (practical) hours.
- Lectures and demonstrations for the course on scientific museology for undergraduate students from biological courses of University of Milano, Italy, 2003; 4 (lecture) + 4 (practical) hours.
- Lectures and demonstrations for the course on census techniques of terrestrial and aquatic invertebrates for undergraduate students from biological courses of University of Milano, Italy, 2000; 4 (lecture) + 12 (practical) hours.

Lectures

- Lectures on lake ecology for the training course for regional naturalistic guides, ForMont, Villadossola, Italy, November 11th 2018, 4 hour.
- Lecture on rotifer biology for the course on Zoology for Biology Undergraduate, Kasetsart University, Bangkok, Thailand, February 24th 2016, 2 hours.
- Lecture on assessment of biological correlates of extinction risk for the course on Conservation Biology for Biology Undergraduate, University of Milano, Italy, April 23rd 2012, 2 hours.
- Lecture on the job of an evolutionary ecologist abroad for the course on Ethics and Deontology for Biology Masters, University of Milano, Italy, April 17th 2012, 2 hours.
- Lecture on asexual organisms and rotifers for the Organism Biology course in Biology Undergraduate, Imperial College London, October 26th 2011, 1 hour.
- Lectures on biogeography of microscopic organisms for the Ecology course in Biology Undergraduate, Imperial College London, May 20th 2011, 2 hours.
- Lectures on macroecology of microscopic organisms for the Master in Ecology, Evolution & Conservation, Imperial College London, March 13th 2008, 2 hours; for the Ecology course in Biology Undergraduate, Imperial College London, January 29th 2008, 2 hours and February 16th 2009, 2 hours.

- Lectures for the courses of Animal Biology, Animal Phylogenetics and Systematics, Applied Zoology, Biogeography, Conservation Biology, and Zoology for the Faculties of Biological and Agricultural Sciences of University of Milano, Italy, from 1998/99 to 2006/07; from 4 to 24 hours every year.

Practical demonstrations

- Demonstrations for 1st year undergraduates in Biology, Imperial College London, November 2010, 6 hours.
- Census and analysis of biodiversity for the Master in Ecology, Evolution & Conservation, Imperial College London, March 10th-14th, 2007, 15 hours, with J. Hortal.
- Demonstrations for Animal Biology, Animal Phylogenetics and Systematics, Applied Zoology, Biogeography, Conservation Biology, and Zoology for the Faculties of Biological and Agricultural Sciences of University of Milano, Italy, from 1998/99 to 2006/07; from 50 to 100 hours every year.

Student co-supervision

Giulia Borgomaneiro, 2019. (in Italian, 12 months) *Master in Biology, Università di Milano-Bicocca, Italy*

Elisa Sottoriva, 2018. (in Italian, 6 months) *Bachelor in Biology, Università dell'Insubria, Varese, Italy*

Nikoleta Anicic, 2017. Diversity and stability of rotifer-associated bacterial communities (12 months). *Master in Microbiology, Zurich University, Switzerland*

Matteo F. Vignati, 2014: Macroecology of microscopic organisms: biodiversity patterns in rotifers (in Italian, 12 months). *Master in Biology, Università di Milano-Bicocca, Italy*

Claire Knight, 2011. Evolution of transposable elements in bdelloid rotifer (5 months). *Master in Ecology, Evolution & Conservation, Imperial College London*

Clare Gray, 2011. The effect of sample size and spatial scale on DNA taxonomy (5 months). *Master in Ecology, Evolution & Conservation, Imperial College London*

Sean Donnelly, 2009: Modelling bdelloid and monogonont dispersal rates (5 months). *Master in Ecology, Evolution & Conservation, Imperial College London*

Jennifer Swanstrom, 2009: Deleterious mutations in mitochondrial sequences of bdelloid rotifers (5 months). *Master in Ecology, Evolution & Conservation, Imperial College London*

Michael Wyman, 2009: Hidden diversity in bdelloid rotifers, the case of *Adineta* (5 months). *Master in Ecology, Evolution & Conservation, Imperial College London*

Ephtichios Frangedakis, 2008: Insights into the asexual evolution of bdelloid rotifers through phylogeny and genomics: high copy number of genes for alpha tubuline (6 months). *Master in Ecology, Evolution & Conservation, Imperial College London*

Kimberly Chen, 2007: Insights into the asexual evolution of bdelloid rotifers through molecular phylogenetic and population genetic approaches (6 months). *Master in Ecology, Evolution & Conservation, Imperial College London*

Kath Castillo, 2007: Molecular phylogenetics and population genetics of sexual and asexual rotifers (5 months). *Master in Ecology, Evolution & Conservation, Imperial College London*

Irene Giordani, 2007: Trophi morphology in *Brachionus manjavacas*, Rotifera Monogononta (in Italian, 5 months). *Master in Natural Sciences, Università di Milano, Italy*

Claudia Fontaneto, 2004: Nesting site choice by the Black Stork, *Ciconia nigra*, in Piemonte (in Italian, 12 months). *Master in Natural Sciences, Università di Milano, Italy*

Simone Tiberini, 2003: Trophi structure in the bdelloid rotifer *Macrotrachela quadricornifera*: a functional approach (in Italian, 12 months). *Master in Biology, Università di Milano, Italy*

Clelia Farris, 2001: Morphology of the retrocerebral organ of the monogonont rotifer *Notommata glyphura* (in Italian, 12 months). *Master in Biology, Università di Milano, Italy*

Gabriele Ramilli, 2001: Sperm ultrastructure of the monogonont rotifer *Lecane bulla* (in Italian, 12 months). *Master in Biology, Università di Milano, Italy*

Mauro Gobbi, 2000: Ground Beetles in the meadows of Adda Sud Regional Park (in Italian, 12 months). *Master in Natural Sciences, Università di Milano, Italy*

Glauco Pertel, 2000: Nesting site choice by the Curlew, *Numenius arquata*, in Piemonte (in Italian, 24 months). *Master in Natural Sciences, Università di Milano, Italy*

Maddalena Bertapelle, 2000: Post-embryonic development of trophi in the bdelloid rotifer *Macrotrachela quadricornifera* (in Italian, 12 months).

Tommaso Scotti, 2000: Trophic ecology of the Stone Marten, *Martes foina*, in an agricultural landscape (in Italian, 24 months).

M. Antonelli, 1999: Trophic ecology of two sympatric anurans (in Italian, 24 months).

PhD student supervision

Cuong Tang, 2010-2014. Eco-evolutionary dynamics in rotifer species assemblages. Imperial College London, UK.

PhD scientific board

2015 – 2019: Member of the PhD scientific board (Collegio del Dottorato di ricerca) in "Scienze della Vita, Salute e Biotecnologie" of the University of Urbino

PhD committees

Rapeepan Jaturapruek, 2021. The effect of environmental variables and desiccation to diversification of *Rotaria* (Rotifera, Bdelloidea, Philodinidae). Kasetsart University, Bangkok, Thailand. Supervisor: prof. Suèpiyanit Maiphaee, November, 11th 2021.

Matteo Cecchetto, 2021. Structure and temporal dynamics of marine biodiversity in the Terra Nova Bay area (Ross Sea, Antarctica) analysed through DNA barcoding and metabarcoding: A standardized and systematic approach for the construction of a "DNA Barcode" library. University of Genova, Italy. Supervisor: prof. Stefano Schiaparelli. May, 2021.

Mohamed Anwar Abouabdallah, 2020. Clustering for the identification of high taxonomic level for metabarcoding. University of Bordeaux, Bordeaux, France. Supervisor: prof. Nathalie Peyrard and Alain Franc. December 1st, 2020. Middle PhD upgrade.

Emiliano Peretti, 2020. Exploring the diversity of a neglected group of soil invertebrates (Chilopoda) across the South-Eastern Prealps. University of Padova, Italy. Supervisor: prof. Lucio Bonato. March 16th, 2020.

Beniamino Tuliozi, 2020. From individuals to groups and back: interactions between individual variation in behaviour and group performances in House Sparrow. University of Padova, Italy. Supervisor: prof. Matteo Griggio. March 16th, 2020.

Quentin Blandenier, 2020. Exploration and characterization of Amoebozoa diversity and investigation of their diversity patterns at regional and global scales. University of Neuchâtel, Switzerland; supervisors: dr. Enrique Lara & prof. Edward Mitchell. March 12th, 2020.

Sofia Paraskevopoulou, 2019. Adaptive genetic variation and responses to thermal stress in brachionid rotifers. Potsdam University, Germany. Supervisor: Raph Tiedemann, October 18th, 2019.

Pierluigi Colangeli, 2019. From pond metacommunities to life in a droplet causes and consequences of movement in zooplankton. Potsdam University, Germany. Supervisor: Guntram Weithoff, March 21st, 2019.

Adam Cieplinski, 2018. Cryptic diversity of *Keratella cochlearis* - genetical, morphological and demographic aspects. University of Innsbruck, Austria. Supervisor: Thomas Weisse. August 28th 2018.

Nicolas Debortoli, 2018. On the evolutionary dynamics of *Adineta vaga* (Bdelloidea). Namur University, Belgium; supervisor: Karine Van Doninck. March 22nd 2018.

Lluis Franch Grass, 2017. Rotifer adaptation to environmental unpredictability. University of Valencia, Spain; supervisors: prof. Manuel Serra Galindo and prof. María José Carmona Navarro. External member. June 23rd 2017.

Marta Maccari Mayo, 2017. Origin and evolution of *Artemia* reproductive and genetic diversity. University of Valencia, Spain; supervisors: prof. Francisco Amat Domenech and prof. Africa Gómez Gómez. External member. September 20th 2017.

David Singer, 2017. A molecular approach to microeukaryotic diversity, ecology and biogeography associated with *Sphagnum* mosses. University of Neuchâtel, Switzerland; supervisors: dr. Enrique Lara & prof. Edward Mitchell.

Nagore Garcia Medina, 2015. Effects of scale and environmental gradients on the diversity of epiphitic bryophytes of Iberian oaks. Autonomous University of Madrid, Spain; supervisors: Francisco Lara, Vicente Mazimpaka & Joaquin Hortal. May 18th 2015.

Alexandre Mestre Pérez, 2014. Ecology of symbiotic ostracods (Entocytheridae) inhabiting invasive crayfish in Europe. University of Valencia, Spain; supervisors: Francesc Mesquita Joanes & Juan S. Monrós González. June 26th 2014.

Alejandro Martínez García, 2013. Evolution and adaptation of marine annelids in interstitial and cave habitats. Copenhagen University, Denmark; supervisor: Katrine Worsaae. September 6th 2013.

Bart Tessens, 2012. Dealing with a taxonomic Gordian knot: phylogeny of and cryptic diversity in *Gyratrix hermaphroditus* Ehrenberg, 1831 (Platyhelminthes: Rhabdocoela, Kalyptorhynchia). Hasselt University, Belgium; supervisor: Tom Artois. December 21st 2012.

Xiang Li, 2011. Molecular and evolutionary insights into sexual marine mammals and asexual bdelloid roitfers. Namur University, Belgium; supervisor: Karine Van Doninck. December 21st 2011.

Judith Fuchs, 2011. New insights into the evolution of Bryozoa, an integrative approach. Göteborg University, Sweden; supervisor: Per Sundberg. March 11th 2011.

Pierre De Wit, 2010. Systematics of *Grania* (Clitellata: Enchytraeidae), an interstitial annelid group, Göteborg University, Sweden; supervisor: Christer Erseus. March 5th 2010.

Andreas Wallberg, 2009. The dawn of a new age: interrelationships of Acoela and Nemertodermatida and the early evolution of Bilateria. Uppsala University, Sweden; supervisor: Ulf Jondelius. September 25th 2009.

Sergi Campillo, 2009. The dispersal - gene flow paradox in zooplankton: The case of rotifers dwelling in temporary environments. University of Valencia, Spain; supervisor: Manuel Serra. Chair of the committee, March 13th 2009.

Teaching appointments

- Contract Professor in Zoology, University of Piemonte Orientale, Alessandria, Italy, 2021/22.
- 'Abilitation' as full professor in Zoology and as associate professor in Zoology and in Ecology, in Italy from 2013.
- 'Docent' (ability to act as Professor) for Stockholm University, Sweden, from December 7th 2009.
- Contract Professor in Animal Biology, Agricultural Faculty, University of Milano, Italy, 2006/07.

SCIENTIFIC COMMITTEES

2018-now Member of the Council of the Union of Italian Zoologists, and president of its Fauna commission

2016-2021 Management Committee member and co-chair of the WG4 of the COST Action DNAqua-Net, http://www.cost.eu/COST_Actions/ca/CA15219?management

2015-now Member of the CITES scientific committee, Minister of Environment, Rome.

INVITED SPEAKER IN INTERNATIONAL CONFERENCES

2018 October 2nd, 4th International Symposium on Anchialine Ecosystems, Arrecife, Lanzarote, Spain: Island biogeography of anchialine caves to understand evolutionary processes.

2018 September 27th, 1st BioMove Symposium, Potzdam, Germany: Tiny animals travel long distances.

2018 June 7th, 15th Conference of rotifer scientists, Rotifera XV, El Paso Texas, USA: Status of rotifer biodiversity, past, present, and future.

2017 August 20th, 4th International Conference on Invertebrate Morphology, ICIM4, Moscow State University, Moscow, Russia, symposium on ecology and evolution of aquatic invertebrates: Different diversification and speciation rates between sexual and asexual rotifers.

2015 January 5th, Society for Integrative and Comparative Biology, West Palm Beach, Florida, USA: Solving complexes of cryptic species by using detailed analyses on jaw morphology in asexual rotifers. Other invited speakers in the symposium on 'soft bodies, hard jaws': Nicolas Bekkouche (Copenhagen University), Julian Smith III (Winthrop University), Georg Mayer (Leipzig

University), Theodore Uyeno (Valdosta University), Ashleigh Smythe (Virginia Military Institute), Roberto Guidetti (Modena University).

2014 July 8th, 33rd Meeting of the Willi Hennig Society, Trento, Italy: Heterochrony in speciation events: asexuals seem to go faster. Other invited speakers in the workshop on heterochrony: Christian Mitgutsch (Museum für Naturkunde, Berlin), John Wiens (University of Arizona), Ronald Jenner (NHM London), Alessandro Minelli (University of Padova).

2014 June 15th, Workshop on Evolution of non-recombining chromosomes and genomes, Lubeck, Germany: Possibility for speciation events with non-recombining genomes, the bdelloid rotifers. Other invited speakers: Matthias Bernt (Leipzig University), Peter van Dijk (Keygene Wageningen), Andreas Houben (IPK Gatersleben), Frantisek Marek (University of South Bohemia), Ken Sahara (Iwate University), Walther Traut (Lubeck University), Boris Vyskot (Brno Biophysics Institute)

2014 March 12th, Symposium on parthenogenesis, University of Insubria, Varese, Italy: Speciation in asexuals, theoretical framework and empirical evidence. Other invited speakers: Tiziana Brevini (Università di Milano), Mauro Mandrioli (Università di Modena).

2013 March 23rd, 18th DZG Meeting Evolutionary Biology, Goettingen, Germany: Phylogenetic distinctiveness of sexual and asexual animals. Other invited speakers: Dick Roelofs (Amsterdam University), Sebastian Fraune (Kiel University), Christian Schlotterer (Vienna University).

2012 November 20th, 13th Conference of rotifer scientists, Rotifera XIII, Shillong, India: Molecular tools to understand diversity, evolution and ecology in rotifers. Other invited speakers: Atsushi Hagiwara (Nagasaki University), SSS Sarma (National Autonomous University of Mexico), Hendrik Segers (Royal Belgian Institute of Natural Sciences), Terry Snell (Georgia Institute of Technology), Elisabeth J. Walsh (Texas University), Manuel Yufera (CSIC Andalucia).

2011 June 20th, 2nd International Conference on Invertebrate Morphology, ICIM2, Harvard, Cambridge, MA, USA, symposium on meiofauna: Faunistic surveys of meiofauna, challenges in morphological identification, DNA taxonomy and environmental sequencing. Other invited speakers: Andreas Schmidt-Rhaesa (Hamburg University).

INVITED SPEAKER IN INTERNATIONAL WORKSHOPS

2021 December 20th, Physalia workshop on Reproducibility Crisis in Science: A case study - reproducibility crisis in DNA sequence data.

2021 February 18-19th, 2nd joint FEM-UMIL-CNR PhD Winter School, online: DNA taxonomy meets metabarcoding.

2020 January 8-10th, Macroecology and microbial biogeography, CUSO, Neuchatel, Switzerland: Community ecology and biogeography of meiofauna.

2019 September 9th – 13th, Workshop An integrated approach to marine invertebrate biodiversity: evolutionary and functional adaptations, Chioggia, Venice, Italy: whole day lectures and practicals on rotifer biodiversity. COST Maristem CA16203.

2019 July 19th – 25th, Workshop Exploring the marine meiofauna of the Azores, Ponta Delgada, Portugal: 1 lecture and 1 practical on rotifers.

2018 November 26th – 27th, Workshop Microscopy and Biodiversity, Urbino, Italy: 1 lecture on Microscopy and biogeography.

2016 June 27th- July 1st, Workshop MeioScool II 2016, A dive into a microscopic world, Brest, France: 4 lectures on (1) evolution, (2) scanning electron microscopy, (3) DNA taxonomy, (4) rotifer taxonomy. Other invited speakers: Daniel Leduc (NIWA, New Zealand), Nuria Sanchez (Madrid University), Ann Vanreusel (Gent University), Reinhardt M. Kristensen (Copenhagen University), Pedro Martinez Arbizu (Senckenberg Institute), Andy Gooday (Southampton University), Aurelie Taseimski (Lille Univerity), Helena Wicklund (NHM London).

2015 June 9-11th, Phylogeography, macroecology and biogeography, CUSO, Neuchatel, Switzerland: DNA taxonomy for macroecology. Other invited speakers: Maria Aguilar (University of Alberta, Canada), Nadir Alvarez (University of Lausanne, Switzerland), Sylvain Dubey (University of Lausanne, Switzerland), Thierry Heger (University of British Columbia, Canada), Joaquin Hortal,

(Museo Nacional de Ciencias Naturales (CSIC), Madrid, Spain), Enrique Lara (University of Neuchâtel, Switzerland), David Mann (Royal Botanic Garden Edinburgh, UK).

2014 May 30th, 4th UZI Spring School, Population genetics and population biology, Venezia, Italy: Population biology, population genetics and speciation in animals without sexual reproduction. Other invited speakers: Guido Barbujani (Università di Ferrara), Giacomo Bernardi (University of California at Santa Cruz), Luigi Boitani (Università di Roma la Sapienza), Michael Bruford (Cardiff University), Gisella Caccone (Yale University), Gary Carvalho (Bangor University), Claudio Ciofi (Università di Firenze), Scott Edwards (Harvard University), Tomaso Patarnello (Università di Padova).

2013 November 26th, Workshop MeioScool 2013, A dive into a microscopic world, Brest, France: Spatial patterns in microscopic organisms: new scenario in biogeography? Other invited speakers: Daniel Leduc (NIWA, New Zealand), Martin V. Sorensen (Copenhagen University), Ann Vanreusel (Gent University), Paul Wassmann (Tromso University), Reinhardt M. Kristensen (Copenhagen University), Pedro Martinez Arbizu (Senckenberg Institute), Andy Gooday (Southampton University), Slava Yvanenko (Moskow University).

2008 September 3rd, EDIT Summer School 2008, Modern Taxonomy and Field Work, Valdieri, Italy: Rotifer taxonomy, morphology and phylogeny.

2007 September 6th-15th, Taxonomy of Marine Meiofauna for PhD students, Tjarno Marine Biological Station, Sweden: Rotifera. Other invited speakers: Marco Curini-Galletti (Sassari University), Rony Huys (London Natural History Museum), Ulf Jondelius (Stockholm Museum of Natural History), Reinhardt M. Kristensen (Copenhagen University), Pedro Martinez Arbizu (Senckenberg Institute), Martin V. Sorensen (Copenhagen University), Antonio Todaro (Modena University), Slava Yvanenko (Moskow University).

INVITED SEMINARS

2021 October 21st, Rome, Italy, Accademia del XL, online meeting Nature and Biodiversity in the Anthropocene: Freshwaters, a resource for life.

2021 September 29th, WSL Birmensdorf, Switzerland: Contrasting patterns in the biogeography of microscopic animals: the role of biological traits favouring dispersal.

2019 December 9th, SUPSI Bellinzona, Switzerland: Spatial patterns in microscopic organisms: new scenario in biogeography?

2019 May 17th, Kasetsart University, Bangkok, Thailand: Metabarcoding and biodiversity surveys of the meiofauna.

2019 April 6th, Italian Association of Natural Historians, Torino, Italy: Biogeography of microscopic animals and their peculiarities.

2018 November 15th, EAWAG Dubendorf, Switzerland: Evolution and speciation without sex in bdelloid rotifers.

2018 November 10th, Piedmont Naturalists, Domodossola, Italy: Biogeographical peculiarities of microscopic organisms from Northern Piedmont.

2018 October 19th, KAUST, Thuwal, Saudi Arabia: Patterns and processes of biodiversity in asexual animals.

2018 October 17th, Gattinara Rotary Club, Gattinara, Italy: The polar day.

2018 October 17th, Omegna Veterinary Association, Omegna, Italy: DNA to address food fraud and degradation.

2018 January 8th, Stresa-Pallanza Rotary Club, Verbania, Italy: Italy in Antarctica.

2017 November 7th, Omegna Veterinary Association, Omegna, Italy: Mosquitoes, black flies, and global change.

2017 October 19th, Jagiellonian University, Krakow, Poland: Patterns and processes of biodiversity in asexual animals.

2017 May 5th, Municipal Zoological Museum, Rome, Italy (workshop on the checklist of Italian mammals): DNA taxonomy for new and old ideas on mammal species.

2016 December 6th, University of Torino, Torino, Italy: Spatial patterns in microscopic organisms: new scenario in biogeography?

2016 October 28th, Verbania – PhD meeting from Milano Bicocca, Italy: Patterns and processes of biodiversity in asexual animals.

2016 October 11th, Jinan University, GuangZhou, China: Metabarcoding and surveys of meiofauna.

2016 October 12th, Jinan University, GuangZhou, China: Species identification in ecological surveys: the role of DNA taxonomy.

2016 September 23rd, UNAM Mexico City, Iztacala Campus, Mexico: Freshwater habitats and alien species, ecological correlates of occurrence across several taxonomic groups.

2016 February 23rd, Kasetsart University, Bangkok, Thailand: Evolution and speciation without sex in bdelloid rotifers.

2015 May 28th, Limnological Institute, Mondsee, Austria: Metagenetics and biodiversity survey of meiofauna.

2015 May 7th, University of Modena and Reggio Emilia, Italy: Evolution without sex.

2015 April 24th, Jinan University, Guangzhou, China: Asexuals speciate faster, evidence from bdelloid rotifers.

2015 January 16th, CNR ISMAR Bologna, Italy: Spatial patterns in microscopic organisms: new scenario in biogeography?

2014 December 18th, Netherlands Institute of Ecology NIOO-KNAW, Wageningen, The Netherlands: Asexual rotifers seem to speciate faster than their sexual relatives.

2014 October 9th, University of Neuchatel, Switzerland: Spatial patterns in microscopic organisms: new scenario in biogeography?

2014 August 9th, University of Texas at El Paso, USA: Asexual speciation: theoretical and empirical evidence in bdelloid rotifers.

2014 August 7th, University of Texas at El Paso, USA: Spatial patterns in microscopic organisms: new scenario in biogeography?

2014 August 6th, University of Texas at El Paso, USA: Metagenetics and biodiversity survey of meiofauna.

2014 July 30th, Prince of Songhkla University, Hat Yai, Thailand: Spatial patterns in microscopic organisms: new scenario in biogeography?

2014 March 27th, University of Padova, Italy: Asexual speciation, theoretical and empirical evidence in bdelloioid rotifers

2014 March 25th, University of Fribourg, Switzerland: Asexual speciation, theoretical and empirical evidence in bdelloid rotifers.

2014 January 31st, Italian Antarctic Station, Ross Sea, Antarctica: the most common animals in Antarctica do not have sex.

2013 December 17th, University of Rome "La Sapienza", Italy: Natural historians and population geneticists meet again, molecular tools to study biological diversity.

2013 December 12th, Jinan University, Guangzhou, China: Ecological correlates of alien species occurrence in freshwater.

2013 December 10th, Jinan University, Guangzhou, China: Metagenetics and biodiversity survey of meiofauna.

2013 December 9th, Jinan University, Guangzhou, China: Spatial patterns in microscopic organisms: new scenario in biogeography?

2013 October 30th, Goettingen University, Germany: Where to publish, pros and cons of OpenAccess. Workshop during GoEvol symposium.

2013 September 4th, University of Copenhagen, Helsingør, Denmark: Biogeography and macroecology of microscopic animals.

2013 May 27th, Potsdam University, Germany, Asexual speciation: genetic distinctiveness of bdelloid rotifers.

2013 May 1st, Aksaray University, Turkey, Morphological taxonomy, DNA taxonomy and environmental sequencing.

2013 April 11th, University of Piemonte Orientale, Alessandria, Italy: Speciation in asexuals: theoretical framework and empirical evidence.

2013 April 4th, University of Insubria, Varese, Italy: How to survive when water goes away: (not so) easy for aquatic animals.

2012 June 28th, University of Milano-Bicocca, Italy: Biogeography and macroecology of microscopic animals.

2012 April 4th, CNR – Institute of Ecosystem Study, Italy: Biogeography and macroecology of rotifers.

2012 March 1st, Roehampton University London, UK: Faunistic surveys of understudied organisms: challenges in morphological identification, DNA taxonomy and environmental sequencing.

2011 November 8th, University of Notre-Dame de la Paix, Namur, Belgium: Morphological taxonomy, DNA taxonomy and environmental sequencing.

2011 May 4th, Edmund Mach Foundation, San Michele all'Adige, Italy: Spatial patterns in microscopic organisms, new scenarios in biogeography?

2011 March 15th, Swedish Museum of Natural History, Sweden (Synthesis grant talk): Dry and survive, resurrection ecology of microscopic animals.

2011 February 17th, Sheffield University, UK: Biogeography of microscopic organisms, is everything small everywhere?

2011 January 24th, Imperial College London, Silwood Park Campus, UK: Spatial patterns in microscopic organisms, new insights in biogeography?

2010 November 19th, University of Parma, Italy: Is speciation in asexuals plausible? (in Italian)

2009 December 1st, Stockholm University, Sweden: Speciation in asexuals, theoretical framework and empirical evidence.

2008 December 15th, Durham University, UK: Do microscopic animals have biogeography? Spatial patterns in bdelloid rotifers.

2008 September 18th, Natural History Museum, London, UK: Macroecology and microscopic animals, global distribution of bdelloid rotifers.

2008 July 21st, National University Ireland, Galway, Ireland: Macroecology and microscopic animals, global distribution of bdelloid rotifers.

2007 October 30th, University of Notre-Dame de la Paix, Namur, Belgium: The evolutionary status of species in bdelloid rotifers.

2007 October 30th, University of Notre-Dame de la Paix, Namur, Belgium: Global distribution of microscopic animals: Bdelloid rotifers and the 'everything is everywhere' hypothesis.

2006 February 1st, University of Milano, Italy: Bdelloid rotifers: phylogeny and ecology of an evolutionary paradox (in Italian).

2005 October 18th, Science Festival, Torino, Italy: Ground research: useful to whom? (in Italian).

2004 September 27th, Imperial College London, Silwood Park Campus, UK: How many bdelloids live together? Community ecology of asexual rotifers.

GRANTS

2021 Marie Sklodowska Curie Action - International Fellowship, DARKEST 101031043 project, "Dark Estuaries: Mapping coastal aquifer biodiversity in a changing world", to host David Brankovits. Host scientist.

€ 183,473.28

2020 ArtsProjected Norway, with Øystein Nordeide Kielland, NTNU Oslo as PI, for the project "Rotifers in small coastal dams", years 2020-2022. International partner
NOK 465,000.00 (~ € 40,000.00) [my research budget]

2019 EU JRC (Joint Research Center) Tender on microplastics in aquatic animals, PI.

€ 14,500.00

2018 PNRA, Antarctic National Research Program, with Stefano Schiaparelli, University of Genova as PI, for the project 'BTN-CODE Barcoding and metabarcoding diversity in Terra Nova Bay', years 2018-2019. Co-investigator.
€ 20,000.00 [my research budget]

2017 Marie Sklodowska Curie Action - International Fellowship, ANCAVE 745530 project, "Anchialine caves to understand evolutionary processes" to host Alejandro Martinez Garcia. Host scientist.
€ 168,277.20

2017 EMBO Practical Course "Microbial ecology: Hands-on training in prokaryotic and eukaryotic metagenomics (ICME-9)", to be held from 2–7 September 2018 in Belgium. Principal Applicant.
€ 32,550.00

2016 Belmont Forum (2016-2018) CLIMTREE: "Ecological and socioeconomic impacts of climate-induced tree diebacks in highland forests", Italian Principal Investigator.
€ 60,000.00

2015 Bilateral Agreement CNR Italy / RFBR Russia (2015-2017) for the project 'Symbiosis between animals: patterns and inference on processes' with prof. Viatcheslav Ivanenko. Principal Investigator.
€ 120,000.00

2015 Marie Sklodowska Curie Action - International Fellowship, RAVE 655537 project, "Rotifers as Vehicles for Epibiotic Bacteria" to host Ester Eckert. Host scientist.
€ 168,277.20

2014 LifeWatch-ITA MoBiLab grant for the project 'MEIOfauna DIVErsity: Testing ecogenomics of meiofauna as a tool for biological monitoring of marine sediments'. Principal Investigator.
€ 20,000.00

2013 LifeWatch-Italia, hosting a postdoctoral fellow by CNR-ISMAR, bando ISMAR-022-2013-VE. Host scientist.
€ 96,000.00 [four-year postdoc salary]

2013 PNRA, Antarctic National Research Program, with Lorena Rebecchi, University of Modena and Reggio Emilia as PI, for the project 'Physiological, biochemical and transcriptomic adaptive responses to harmful UV radiation and temperature increases in Antarctic meiofaunal organisms: a walk from genes to organism', years 2014-2015. Co-investigator.
€ 3,500.00 [my research budget]

2013 USA NSF Grant with Elisabeth Walsh, El Paso, Texas, as PI, for the project 'Gnesiotrocha' on the taxonomy of Rotifera Gnesiotrocha. Foreign partner.
$ 6,000.00 (~ € 4,400.00) [my research budget]

2012 Interuniversity Attractive Poles (IAP), Belgium, with Luc De Meester, Leuven as PI, for the project 'SPatial and environmental determinants of Eco-Evolutionary DYnamics: anthropogenic environments as a model (SPEEDY)', years 2012-2016. Foreign partner.
€ 39,000.00 [my research budget]

2011 Assemble Marine travel grant from the EU for the project 'Are microscopic organisms ubiquitous? New insights from Chilean rotifers'. Principal Investigator.
€ 4,500.00

2011 Systematics Research Fund from Linnean Society and the Systematics Association to Francesca Leasi, hosted in my lab for the project 'Taxonomy and biogeography of Seisonidea - a phylogenetically significant taxon of the phylum Rotifera'. Host scientist.
£ 1,000.00 (~ € 1,150.00) [to cover lab expenses for Francesca Leasi]

2010 Natural Environment Research Council (NERC, UK) Algorithm studentship for salary and expenses for a PhD student for 3.5 years. Principal Investigator.
£ 55,000.00 (~ € 68,000.00)

2010 Synthesis travel grant from the EU for the project 'How long can rotifers survive desiccation?'. Principal Investigator.
€ 4,710.00

2010 Riksmusei Vänner and René & Ebba Malaises stiftelse (Sweden) grant for the project 'The effects of sample size and spatial scale on DNA taxonomy'. Principal Investigator.
SEK 25,000.00 (~ € 2,500.00)

2010 Royal Society - Accademia dei Lincei Fellowship to Francesca Leasi, hosted in my lab in September 2011-January 2012 for the project 'Biogeography of Seisonacea, a crucial taxon for the phylogenetic reconstruction of the phylum Rotifera'. Host scientist.
€ 6,500.00 [to cover the salary for Francesca Leasi]

2010 Encyclopedia of Life Rubenstein Fellowship to Francesca Leasi, hosted in my lab in March-August 2011 for the project 'Marine Rotifera taxon pages in the Encyclopedia of Life: An international approach and network to increase and improve the amount and quality of biological information'. Host scientist.
$ 25,000.00 (~ € 18,000.00) [to cover the salary for Francesca Leasi]

2009 ARCFAC travel grant for a 18 days sampling trip to Svalbard for two people, Ny-Ålesund. Principal Investigator.
NOK 55,000.00 (~ € 7,000.00)

2009 Lars Hiertas Minne (Sweden) grant for the project 'Local genetic diversity of freshwater animals: related to availability of sources of colonisers?' to cover travel costs. Principal Investigator.
SEK 15,000.00 (~ € 1,500.00)

2009 Natural Environment Research Council (NERC, UK) Advanced Fellowship for the project 'Disentangling ecological and evolutionary forces driving community composition' at the Division of Biology, Imperial College London, Silwood Park Campus, Ascot, Berkshire, UK. Principal Investigator.

£ 499,516.37 (~ € 590,000.00)

2009 Grant from the Systematics Association to organise a symposium during the 7th Biennial Meeting in Leiden and edit a book from the talks delivered at the symposium. Principal Investigator.
£ 2,000 (~ € 2,200)

2008 'Forskarassistent' fellowship from the Swedish Taxonomy Initiative for the project 'Species reality of bdelloid rotifers in Sweden: molecular phylogeny and geometric morphometrics of globally distributed ancient asexuals', to work for three years at the Natural History Museum in Stockholm, Sweden. Principal Investigator.
SEK 1,950,000.00 (~ € 200,000.00)

2006 Marie Curie Intra-European Fellowship within the 6th Framework Program of the European Community, for the project 'ROTPOP – Population structure and genotype dynamics of ancient asexuals: insights from bdelloid rotifers', to work for two years in the Division of Biology, Imperial College London, Silwood Park Campus, Ascot, Berkshire, UK. Principal Investigator.
€ 159,046.40

2004 Joint grant from Systematic Association and Linnean Society of London (www.systass.org), for a three months project 'Species reality in bdelloids', in the lab of Timothy G. Barraclough and Elisabeth A. Herniou, Department of Biological Sciences, Imperial College London, Silwood Park Campus, Ascot, Berkshire, UK. Principal Investigator.
€ 1,623.00

2004 Grant PARTNER from European Science Foundation, for a one-month visit to the lab of Manuel Serra, Institute Cavanilles of Biodiversity and Evolutionary Biology, University of Valencia, Valencia, Spain. Principal Investigator.
€ 775.00

MEETINGS AND SYMPOSIA ORGANISATION

2021 DNAqua Italian Stakeholder Workshop, online: March 12, scientific and organizing committee.

2021 1st DNAqua Conference, online: March 9-11, scientific and organizing committee.

2016 1st joint meeting SItE-UZI-SIB, Milano, Italy; August 30th – September 2nd, organizing committee.

2016 33rd SIL Congress, Torino, Italy; July 31st – August 4th, scientific and organizing committee.

2015 14th International Rotifer Symposium, Ceske Budejovice, Czech Republic; August 30th-September 5th, scientific committee.

2013 1st Conference on Challenges in Aquatic Sciences, Keelung, Taiwan; March 15th-21st, scientific committee.

2009 European Society for Evolutionary Biology, ESEB 2009, Torino, Italy; August 27th, half day symposium on 'The genetic consequences of reproductive modes: insights from asexual species'. Co-organised with Karine Van Doninck, Namur, Belgium.

2009 Systematic Association 7th Biennial Meeting, Leiden, The Netherlands; August 13th, full day symposium on 'The importance of being small: does size matter in biogeography?' Co-organised with Dave Roberts and Juliet Brodie, NHM, London, UK.

CHAIRPERSON AT MEETINGS AND SYMPOSIA

2021 DNAqua Italian Stakeholder Workshop, online: March 12, scientific and organizing committee.

2021 1st DNAqua Conference, online: March 9-11, scientific and organizing committee: session on Data Analysis & Data Storage.

2016 1st joined meeting SItE-UZI-SIB, Milano, Italy; August 30th – September 2nd: symposium on endemism.

2016 33rd SIL Congress, Torino, Italy, July 31st – August 4th: special session on HTS in aquatic ecology.

2013 32nd SIL conference, Budapest, Hungary, August 4th-9th: session Molecular biology and taxonomy of aquatic species.

2013 9th Meeting of the PhD students in Ecology and Environmental Sciences, Milan, Italy, April 15th-18th: Round table on the link between science, administration and politics.

2013 1st Conference on Challenges in Aquatic Sciences, Keelung, Taiwan; March 15th-21st, session on Sustainability in the aquatic environment.

2012 13th International Symposium on Rotifers, Shillong, India; November 18th-24th, half day part on molecular ecology of rotifers.

2009 European Society for Evolutionary Biology, ESEB 2009, Torino, Italy; August 27th, half day symposium on 'The genetic consequences of reproductive modes: insights from asexual species'. Co-organised with Karine Van Doninck, Namur, Belgium

2009 Systematic Association 7th Biennial Meeting, Leiden, The Netherlands; August 13th, full day symposium on 'The importance of being small: does size matter in biogeography?'

CONFERENCES: POSTERS AND PRESENTATIONS

International Meetings

2018 15th Symposium on Rotifera, El Paso, Texas, USA: List of Available Names in Rotifera.

2017 4th ICIM Moscow, Russia: (1) symbiotic copepods on fungiid corals, (2) cave adaptations in scale worms.

2016 33rd SIL Congress, Torino, Italy: (1) local genetic diversity and life history strategies in rotifers, (2) lake microbiome.

2015 14th Symposium on Rotifera, Ceske Budejovice, Czech Republic: (1) DNA taxonomy of Brachionus plicatilis, (2) DNA taxonomy of B. calyciflorus, (3) species co-existence in B. plicatilis, (4) rotifers as vectors for epibionts, (5) List of Available Names.

2015 13th Symposium on Tardigrada, Modena, Italy: Towards a List of Available Names for Tardigrada.

2015 DZG Graduate Meeting Zoological Systematics, Bonn, Germany: Cryptic speciation and phylogeography in Dactylopodola gastrotrichs.

2014 BioDivEvo 2014, Dresden, Germany: Cryptic diversity and phylogeography in gastrotrichs.

2013 32nd SIL conference, Budapest, Hungary: The effect of cryptic diversity on limnological inference.

2013 4th FADA workshop, Oostend, Belgium: Databases on aquatic organisms to answer questions at the global scale.

2013 ALTER-NET Conference, Ghent, Belgium: correlates of occurrence of alien species in freshwater (presentation).

2013 1st Conference on Challenges in Aquatic Sciences, Keelung, Taiwan: metagenetics for surveys of meiofauna (presentation).

2013 18th DZG Meeting Evolutionary Biology, Goettingen, Germany: phylogenetic distinctiveness of sexual and asexual animals (invited presentation).

2013 7th Symposium on Eco-evolutionary dynamics, Leuven, Belgium: geography, climate and the genetic diversity of bdelloid rotifers (presentation).

2012 13th International Symposium on Rotifers, Shillong, India: (1) Molecular tools to understand rotifer ecology and evolution (invited presentation), (2) The List of Available Names in Zoology, partim Rotifera, (3) Cryptic diversity in Iranian *Brachionus plicatilis*.

2012 Polar Ecology Conference, České Budějovice, Czech Republic: Antarctic rotifers in limno-terrestrial habitats.

2011 13th Congress of the European Society for Evolutionary Biology, ESEB, Tubingen, Germany: (1) Multiple functionally divergent copies of alpha tubuline in bdelloids, (2) Congruence in tree topology in different loci: sexual vs asexual rotifers.

2011 2nd International Conference on Invertebrate Morphology, ICIM, Harvard, Cambridge, MA, USA: (1) morphological identification, DNA taxonomy and environmental sequencing in meiofauna (invited presentation), (2) DNA taxonomy of marine rotifers.

2010 14th Meiofauna Meeting, Gent, Belgium: (1) Cryptic diversity in brackish gastrotrichs, (2) Morphological and DNA taxonomy in deep-sea dirivultid copepods.

2009 12th International Symposium on Rotifers, Berlin, Germany: (1) Towards a list of available names in zoology, partim Phylum Rotifera, (2) The epidermis surface in rotifers, (3) Cryptic diversity in the genus *Adineta*, (4) Deleterious mutations in mitochondrial sequences of bdelloid rotifers, (5) Rotifera from Iran.

2008 Evolution, Minneapolis, USA: Monopolisation hypothesis in freshwater ponds: is the large bank of resting stages the key feature?

2007 Annual Symposium of the British Ecological Society, Speciation and Ecology, Sheffield, United Kingdom: The evolutionary status of species in bdelloid rotifers.

2006 11th International Symposium on Rotifers, Mexico City, Mexico: Water loss and morphological changes during desiccation in *Macrotrachela quadricornifera* (Rotifera, Bdelloidea)

2005 International joint European Science Foundation - Linnean Society Meeting, PARTNER 4: The Paradox of Asexuality: An Evaluation, London, United Kingdom: Molecular insights into the real life of bdelloids.

2005 10th Congress of the European Society for Evolutionary Biology, ESEB, Krakow, Poland: Molecular insights into the real life of bdelloid rotifers.

2004 12th International Meiofauna Conference, Ravenna, Italy: (1) Assessment of dispersal rate in moss-dwelling bdelloid rotifers by the analysis of metacommunity structure (presentation), (2) Marine rotifers: not a very inconspicuous taxon.

2003 Aquatic Biodiversity Symposium, Antwerp, Belgium: The meta-community structure of bdelloid rotifers in aquatic and terrestrial mosses (presentation).

2003 6th Meeting Focus on Microscopy, Genova, Italy: Morpho-functional study of muscular system of *Hexarthra mira* (Rotifera).

2003 10th International Symposium on Rotifers, Illmitz, Austria: (1) Do jaws of rotifers grow after hatching? (presentation), (2) Trophi structure in bdelloid rotifers, (3) Motion of pond dwelling bdelloid and monogonont rotifers: a morpho-functional approach.

2001 9th International Congress on Invertebrate Reproduction and Development, Grahamstown, South Africa: Metamorphosis in the sessile rotifer *Floscularia ringens* (Monogononta, Flosculariidae).

1998 Meeting of the European Herpetological Society, Le Bourget du Lac, France: (1) Parasitism and necrophagy of two leeches species on *Bufo bufo*, (2) Feeding habits, niche breadth and seasonal dietary shift of *Rana dalmatina* in Northern Italy.

National (Italian, Swedish, and German) Meetings

2016 1st Joined Meeting of SItE-UZI-SIB, Milano: (1) Italian endemic rotifers, (2) Italian endemic marine cave meiofauna, (3) lake microbiome.
2015 22nd Meeting of the Italian Association of Oceanography and Limnology, AIOL, Verbania: cryptic species in the zooplankton.
2015 76th Meeting of the Italian Zoological Union, UZI, Viterbo, Italy: speciation in asexuals.
2015 Workshop on Expo Aquae Venezia: metabarcoding for biological monitoring.
2013 74th Meeting of the Italian Zoological Union, UZI, Modena, Italy: metagenetics and meiofauna.
2013 39th Meeting of the Italian Biogeographical Society, Rapallo, Italy: climate, geography and distribution in a bdelloid rotifer.
2012 22nd Meeting of the Italian Ecological Society, Alessandria, Italy: (1) geography and climate as drivers of distribution in a bdelloid rotifer (presentation), (2) alien and invasive species in Italy, (3) 'LifeWatch' case study on invasive species in large lakes.
2012 Jahrestagung der Gesellschaft für Biologische Systematik, Bonn, Germany: phylogeography of marine gastrotrichs.
2010 The Melting Pot, internal meeting at the Swedish Museum of Natural History, Stockholm: biogeography of microscopic animals (presentation).
2009 Systematikdagarna, Meeting of the Systematics Association of Sweden, Stockholm: Bdelloid rotifers in lichens.
2008 69th Meeting of the Italian Zoological Union, UZI: Integrating molecular phylogeny and geometric morphometrics to solve species problem in bdelloid rotifers (presentation).
2006 67th Meeting of the Italian Zoological Union, UZI: Bdelloid rotifers: morphological species and independent phylogenetic lineages (presentation).
2006 2nd Meeting of the Italian Society for Evolutionary Biology: Molecular insights into an ancient asexual species: the bdelloid *Philodina flaviceps*.
2005 20th Italian Meeting of Entomology: Butterflies (Hesperoidea and Papilionidea) of "Miniera Sella" (Curino, Biella).
2005 1st Meeting of the Italian Society for Evolutionary Biology: (1) Species reality in ancient asexuals: the case of bdelloid rotifers (presentation), (2) Highly diversified population genetics of asexual bdelloids.
2005 15th Meeting of the Italian Ecological Society: (1) Species reality in asexuals: the case of bdelloid rotifers (presentation), (2) Ground Beetles (Coleoptera Carabidae) assemblages in different agroecosystems in the Po Plain (Italy).
2004 19th Italian Meeting of Entomology: Biodiversity of ground-dwelling arthropods in meadows of Parco Regionale Adda Sud (Lombardia).
2003 16th Meeting of the Ecological Gadio Group: Species assemblages of bdelloid rotifers in streams: passive or active dispersal? (presentation).
2003 13th Meeting of the Italian Ecological Society: Factors affecting species richness in species assemblages and meta-communities of bdelloid rotifers (presentation).
2002 63rd Meeting of the Italian Zoological Society: How many teeth do bdelloid rotifers have?
2002 34th Meeting of the Italian Biogeographical Society: Mediterranean rotifers: these unknown ones (presentation).
2001 62nd Meeting of the Italian Zoological Society: Growth and variability in trophi of *Macrotrachela quadricornifera* (Rotiferi Bdelloidei)
2001 3rd Italian Meeting of Theriology: Feeding ecology of the Stone Marten (*Martes foina*) in a rural habitat.
2000 61th Meeting of the Italian Zoological Society: (1) Management of the Stone Marten (*Martes foina*) in a rural habitat, (2) Management of the Curlew (*Numenius arquata*) in Baragge biellesi during the breeding season.
1999 60th Meeting of the Italian Zoological Society: (1) Wallpapers of the Dipartimento di Biologia of Università degli Studi di Milano: an online archive, (2) Multimedia and zoology in university classes, (3) Breeding of the Curlew (*Numenius arquata*) in Piedmont.
1999 10th Italian Meeting of Ornithology: (1) Behaviour in the nest: photocamera and the Red-Backed Shrike, *Lanius collurio*, (2) Feeding behaviour of the Blackbird, *Turdus merula*, in an anthropic habitat.
1998 59th Meeting of the Italian Zoological Society: New technologies in university classes: multimedia and zoology.

WEB PAGES DEVELOPMENT
- Rotifer trophi web page; http://www.rotifera.hausdernatur.at/Rotifer_data/trophi/ (former webmaster)
- Prof. Claudia Ricci's web page; http://users.unimi.it/ricci (former webmaster)
- Didactical Museum of Zoology of Milano; http://users.unimi.it/museozoo (former webmaster)
- Historical zoology wallpapers in Milano; http://users.unimi.it/museozoo/TavoleParietali/Cd/inizia.html

LANGUAGES
English and Italian
Reading: Fluent
Writing: Fluent
Conversation: Fluent

POSTDOCTORAL FELLOWS
2017.12.04 to 2018.12.26, 12 months, Ester Eckert, temporary researcher
2017.11.01 to 2019.10.31, 2 years, Alejandro Martinez Garcia, Marie Curie Individual Fellowship
2017.01.16 to 2017.09.15, 8 months, Karimullah Karimullah, research assistant
2016.06.01 to 2016.11.30, 1 year and 6 months, Alejandro Martinez Garcia, postdoc
2015.06.01 to 2017.10.31, 2 years and 5 months, Ester Eckert, Marie Curie Individual Fellowship
2014.01.15 to 2017.12.22, 4 years, Paolo Colangelo, Lifewatch-Italia postdoc
2011.09.01 to 2012.01.31, 5 months, Francesca Leasi, Italy, Accademia dei Lincei Fellowship
2011.03.01 to 2011.08.31, 6 months, Francesca Leasi, Italy, Encyclopedia of Life Fellowship

GUEST AND VISITING SCIENTISTS
2021.05.10 to 2021.10.10, 5 months, Zacarias Fresno Lopez, Madrid, Spain
2021.01.10 to 2021.05.10, 4 months, Daniel Stec, Krakow, Poland
2019.10.10 to 2019.12.10, 2 months, Alejandro Rodriguez Gijon, Madrid, Spain
2019.07.09 to 2019.09.18, 2 months, Zeyneb Vildan Cakil, Turkey
2019.03.18 to 2020.02.02, 11 months, Giuseppe Garlasché, Italy
2018.03.01 to 2018.05.30, 3 months, Shaolin Xu, China
2017.06.15 to 2017.08.01, 1.5 months, Alvaro Garcia Herrero, Spain
2017.02.04 to 2017.03.03, 1 month, Mario Ayala Arce, Mexico
2017.01.09 to 2017.04.17, 3 months, Guillermo Garcia Gomez, Spain
2016.07.01 to 2016.09.27, 3 months, Phannee Sa-Ardrit, Thailand
2015.07.01 to 2015.08.12, 1.5 months, Alejandro Martinez Garcia and Brett Gonzalez, Denmark
2015.01.12 to 2015.02.02, 3 weeks, Alejandro Martinez Garcia, Denmark, Carlsberg grant
2014.06.01 to 2014.08.01, 2 months, Carmen Gabaldon Tebar, Spain, Predoctoral fellowship
2010.03.01 to 2010.03.31, 1 month, Ulrike Obertegger, Italy
2009.11.19 to 2009.12.04, 3 weeks, A. Marcia Barbosa, Portugal
2008.12.01 to 2009.03.01, 3 months, Nataliia Iakovenko, Ukraine, INTAS grant
2008.01.01 to 2008.08.05, 7 months, Murat Kaya, Turkey, Lifelong Learning Program grant

DESCRIPTION OF NEW SPECIES
Rotifera
Abrochtha kingi Birky, Ricci, Melone & Fontaneto, 2011
Abrochtha meselsoni Birky, Ricci, Melone & Fontaneto, 2011
Abrochtha sonneborni Birky, Ricci, Melone & Fontaneto, 2011
Brachionus manjavacas Fontaneto, Giordani, Melone & Serra, 2007
Lecane insulaconae Fontaneto, Segers & Melone, 2008
Philodinavus aussiensis Ricci, Shiel, Fontaneto & Melone, 2003
Rotaria megarostris Jaturapruek, Fontaneto, Meksuwan, Pholpunthin & Maiphae, 2018
Fish

Esox flaviae Lucentini, Puletti, Ricciolini, Gigliarelli, Fontaneto, Lanfaloni, Biló, Natali & Panara, 2011
Nematoda
Oncholaimus dyvae Zeppilli, Bellec, Cambon-Bonavita, Decraemer, Fontaneto, Fuchs, Gayet, Mandon, Michel, Portail, Smol, Sørensen, Vanreusel & Sarrazin

DEDICATION OF NEW SPECIES
Acoela
Archaphanostoma fontaneti Kånneby, Bernvi & Jondelius, 2015
Rotifera
Adineta fontanetoi Iakovenko, Smykla, Convey, Kašparová, Kozeretska, Trokhymets, Dykyy, Plewka, Devetter, Duriš & Janko, 2015
Pleurotrocha fontanetoi De Smet, 2015

FIELD EXPERIENCE
2021 September, 1 week, Agder, Norway
2019 July, 1 week, Azores, Portugal
2018 December - 2019 February, 2 months, Terra Nova Bay, Antarctica
2018 July, 3 weeks, New Caledonia
2017 September, 1 week, Bavarian Forest National Park, Germany
2017 August, 1 week, Kalkalpen National Park, Austria
2017 July, 1 week, Pyrenees, France
2017 March, 1 week, Atacama desert, Chile
2016 July, 2 weeks, Lake Bajkal, Siberia, Russia
2014 October, 2 weeks, Neuchatel, Switzerland
2014 September, 2 weeks, Asinara, Sardinia, Italy
2014 April, 1 month, Brest, Brittany, France
2014 January-February, 2 months, Terra Nova Bay, Antarctica
2013 May, 2 weeks, Aksaray, Cappadocia, Turkey
2012 December, 2 weeks, Bariloche, Patagonia, Argentina
2011 November, 2 weeks, Las Cruces, Chile
2011 October, 2 weeks, Lanzarote, Canary Islands, Spain
2011 July, 2 weeks, Halland, Sweden
2010 September, 2 weeks, Sardinia, Italy
2010 July, 3 weeks, Svalbard, Norway
2010 June-July, 2 weeks, Lapland, Sweden
2009 July, 2 weeks, West Coast, Sweden
2006 June-July, 2 weeks, Isonzo, Italy
2005 August, 2 weeks, Sardinia, Italy
2005 June-July, 2 weeks, Puglia, Italy