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Permanent researcher Institute of Water Research (CNR IRSA). Topics: invasive species; freshwater mussels: ecology, taxonomy, conservation, applications (bioaccumulation; biological early warning systems).

MEMBERSHIPS:

- IUCN Species Survival Commission Mollusc Specialist Group
- International Committee of the Freshwater Mollusk Conservation Society (USA)
- CONservation of FRESHwater Mussels (CONFREMU); COST – Action CA 18239; Management Committee National Representative

SCIENTIFIC PROJECTS

Ongoing:

- INTERREG V-A ITALIA SVIZZERA: ParchiVerbanoTicino ID 481668: WP4- Evaluation of the effects of lake water level variation through new indicators; (2019-2022)
- PRIN (Progetti di Rilevante Interesse Nazionale) 2017 prot. 2017SEB7Z8: IntEractions between hydrodyNamics flows and bioTic communities in fluvial Ecosystems: advancement in dischaRge monitoring and understanding of Processes Relevant for ecosystem sustainability by the development of novel technologieS with field observatioNs and laboratory testinG (ENTERPRISING); (2019-2022)
- CIPAIS – Ecorive: Specie aliene: impatti e sfruttamento come biondicatori per il monitoraggio di parassitosi e microplastiche. (2019-2022)
- - microPA-LKM Assessing microplastic abundance and distribution in Lake Maggiore using native and invasive freshwater mussels: a case study exploitation to improve bio-monitoring methodologies. Relevance-driven access to NanobiotechResearch Infrastructure – Joint Research Centre of the European Commission Agreement N° (35559/1)

Ended up:

- Assessment of the conservation status of the population of *Microcondylaea bonellii* in Torrente Versa (Contract with Regione Friuli Venezia Giulia) (2018)
- Ecological restoration of the Lake of Milan 3 (Funded under a contract with the super condominium administration of Milan 3) (2018-2019)

- SPAM Assessment of distribution and impact of alien bivalve species in Lake Maggiore (Funded under a contract with ARPA in the framework of the Project SPAM funded by CIP AIS _ Commissione Internazionale per la Protezione delle Acque italo-Svizzere) (2017-2018)
- BIBOM Bivalvi Bolle di Magadino (funded by Fondazione Bolle di Magadino): Evaluation of distribution, abundance, and impact of alien bivalve species and of biodiversity of native bivalve species (2015-2017)
- ALMA – (Alieni nel Lago Maggiore) Alien species in Lake Maggiore (Funded by Rotary project: “One Lake, three Districts, One Rotary”): Distribution and impact of alien species in Lake Maggiore (2012-2013)
- SISTO – (Sistema di Sorveglianza TOssine algali) Application of MALDI TOF MS technique to the development of an early warning procedure for algal toxins detection through sentinel organisms. (HABs) (Funded by Fondazione Cariplo) (2010-2014)

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AWARDS AND RECOGNITIONS

- Grant award from the European Environmental Research Organisation (Wageningen, NL) to attend the post-graduate training course “Estuarine Ecology and Coastal Management” (1993).
- New species named In acknowledgement of her work on zooplankton: *Cymbasoma nicolettae*, (Suarez-Morales E 2002. A new species of *Cymbasoma* (Copepoda: Monstrilloida) from the Mediterranean Sea with remarks on the female of *C. tumorifrons* (Isaac). *Mitteilungen aus dem Museum fuer Naturkunde in Berlin Zoologische Reihe*, 78(1): 87-96).

RICCARDI Nicoletta _ list of relevant publications

1. **Riccardi N**, Froufe E, Bogan AE, Zieritz A, Teixeira A, Vanetti I, Varandas S, Zaccara S, Karl-Otto Nagel K-O, Lopes-Lima M (2019) Phylogeny of European Anodontini (Bivalvia: Unionidae) with re-description of *Anodonta exulcerata* Porro 1838. *Zoological Journal of the Linnean Society* (in press).
2. Froufe E, Bolotov I, Aldridge DC, Bogan AE, Breton S, Han Ming Gan, Kovitvadhi U, Kovitvadhi S, **Riccardi N**, Secci-Petretto G, Sousa R, Teixeira A, Varandas S, Zanatta D, Zieritz A, Fonseca MM, Lopes-Lima M (2019). Mesozoic mitogenome rearrangements and freshwater mussel (Bivalvia: Unionoidea) macroevolution. *Heredity*, <https://doi.org/10.1038/s41437-019-0242-y>.
3. Ferreira-Rodríguez N, Akiyama YB, Aksenova OV, Araujo R, Barnhart MC, Bernal YV, Bogan AE, Bolotov IN, Budha PB, Clavijo C, Clearwater SJ, Darrigran G, Van Tu Do, Douda K, Froufe E, Gumpinger C, Henrikson L, Humphrey CL, Johnson NA, Klishko O, Klunzinger MW, Kovitvadhi S, Kovitvadhi U, Lajtner J, Lopes-Lima M, Moorkens EA, Nagayama S, Nagel K-O, Nakano M, Negishi JN, Ondina P, Oulasvirta P, Prié V, **Riccardi N**, Rudzite M, Sheldon F, Sousa R, Strayer DL, Takeuchi M, Taskinen J, Teixeira A, Tiemann JS, Urbańska M, Varandas S, Vinarski MV, Wicklow BJ, Zajac T, Vaughn CC (2019) Research priorities for freshwater mussel conservation assessment. *Biological Conservation*, 231: 77-87.
4. Urbańska M, Andrzejewski W, Riccardi N, Gierszal H, Golski J (2018) The invasive Asian clam *Corbicula fluminea* in Polish rivers: the importance of thermal discharge from power plants for its spread. *Pol. J. Ecol.* 66: 70–75
5. Froufe E., Lopes-Lima M., **Riccardi N.**, Zaccara S., Vanetti I., Lajtner J., Teixeira A., Varandas S., Prié V., Zieritz A., Sousa R., Bogan A.E. (2017). Lifting the curtain on the freshwater mussel diversity from the Italian Peninsula and Croatian Adriatic coast. *Biodiversity and Conservation*, 26: 3255-3274, ISSN: 1572-9710, doi: 10.1007/s10531-017-1403-z
6. Lauceri R., Austoni M., Caviglia F., Kamburska L., Lami A., Morabito G., Pflueger V., Silva Benavides A.M., Tonolla M., Torzillo G., **Riccardi N.** (2017). Coupling a bio-accumulator organism and MALDI-TOF MS: an early warning detection system for

microcystins in water bodies. *J. Appl. Phycol.* DOI: 10.1007/s10811-017-1193-4

7. Lopes-Lima M., Froufe E., Do Tu V., Ghamizi M., Mock K.E., Kebapçı Ü., Klishko O., Kovitvadhi S., Kovitvadhi U., Paulo O.S., Pfeiffer J.M. Iii, Raley M., **Riccardi N.**, Şereflışan H., Sousa R., Teixeira A., Varandas S., Wu X., Zanatta D.T., Zieritz A., Bogan A.E. (2017). Phylogeny of most species rich freshwater bivalve family (*Bivalvia*: *Unionida*: *Unionidae*): Defining modern subfamilies and tribes. *Molecular Phylogenetics and Evolution*, 106: 174-191
8. Lopes-Lima M., Sousa R., Geist J., Aldridge D.C., Araujo R., Bergengren J., Bespalaja Y., Bódis E., Burlakova L., Van Damme D., Douda K., Froufe E., Georgiev D., Gumpinger C., Karatayev A., Kebapçı Ü., Killeen I., Lajtner J., Larsen B.M., Lauceri R., Legakis A., Lois S., Lundberg S., Moorkens E., Motte G., Nagel K.-O., Ondina P., Outeiro A., Paunovic M., Prié V., Von Proschwitz T., **Riccardi N.**, Rudzite M., Rudzitis M., Scheder C., Seddon M., Sereflisan H., Simić V., Sokolova S., Stoeckl K., Taskinen J., Teixeira A., Thielen F., Trichkova T., Varandas S., Vicentini H., Zajac K., Zajac T., Zogaris S. (2017) Conservation Status of Freshwater Mussels in Europe: State of the Art and Future Challenges. *Biological Reviews*, 92 (1), 572-607, doi: 10.1111/brv.12244
9. **Riccardi N.**, Lopes-Lima M., Froufe E., Mazzoli C. (2016) When and how? Freshwater mussel recolonization in Lake Orta. *J. Limnol. Special Issue: Lake Orta: A new lease on life.* 75(s2): 120-130, DOI: 10.4081/jlimnol.2016.1286.
10. Lopes-Lima M., Sousa R., Teixeira A., Varandas S., **Riccardi N.**, Aldridge D.C., Froufe E. (2016) Newly developed microsatellite markers for the pan-European duck mussel, *Anodonta anatina*: revisiting the main mitochondrial lineages and phylogeographical patterns. *Aquatic Conserv. Mar. Freshw. Ecosyst.*, 26: 307–318, DOI: 10.1002/aqc.2575
11. Boggero A, Basset A, Austoni M, Barbone E, Bartolozzi L, Bertani I, Campanaro A, Cattaneo A, Cianferoni F, Corriero G, Dörr Am, Elia Ac, Ficetola Gf, Kamburska L, La Porta G, Lauceri S, Ludovisi A, Gaino E, Goretti E, Lorenzoni M, Manca M. Marchetto A. Morabito G. Nonnis Marzano F, Oggioni A, Pierri C, **Riccardi N.**, Rossetti G, Ungaro N, Volta P, Zaupa S, Fontaneto D (2014) Weak effects of habitat type on susceptibility to invasive freshwater species: an Italian case study. *Aquatic Conserv. Mar. Freshw. Ecosyst.* DOI: 10.1002/aqc.2450
12. Guarneri I., Popa O.P., Gola L., Kamburska L, Lauceri R., Lopes-Lima M, Popa L.O., **Riccardi, N.** (2014) A morphometric and genetic comparison of *Sinanodonta woodiana* (Lea, 1834) populations: does shape really matter? *Aquatic Invasions*: 9:183-194.
13. Kamburska L., Lauceri R., Beltrami M., Boggero A., Cardecchia A., Guarneri I., **Riccardi N.** (2013) Establishment of *Corbicula fluminea* (O.F. Müller, 1774) in Lake Maggiore: a spatial approach to trace the invasion dynamics. *BiolInvasions Records*, 2: 105–117.
14. Kamburska L., Lauceri R., **Riccardi N.** (2013) Establishment of a new alien species in Lake Maggiore (Northern Italy): *Anodonta* (*Sinanodonta*) *woodiana* (Lea, 1834) (*Bivalvia*: *Unionidae*). *Aquatic Invasions*, 8: 111-116.
15. **Riccardi N.**, Lucini L., Benagli C., Welker M., Wicht B., Tonolla M. (2012) Potential of Matrix Assisted Laser Desorption/Ionization Time-Of-Flight Mass Spectrometry for the identification of freshwater zooplankton: a pilot study with three Eudiaptomus (*Copepoda*: *Diaptomidae*) species. *J. Plankton Res.*, 34: 484-492. doi: 10.1093/plankt/fbs022
16. Volta P., **Riccardi N.**, Lauceri R., Tonolla M. (2012) Characterization and separation of freshwater fish species by Matrix-Assisted Laser Desorption/Ionization-time of flight mass spectrometry (MALDI-TOF MS): a pilot study. *J.Limnol.* 71: 164-169
17. **Riccardi N.** (2010) Selectivity of plankton nets over mesozooplankton taxa: implications for abundance, biomass and diversity estimation. *J. Limnol.*, 69: 287-296. DOI: 10.3274/JL10-69-2-10
18. Fontanella M.C., Ravera O., Beone G.M., **Riccardi N.**, Cattani I. (2009)a. The mercury distribution in the main compartments of the eutrophic Lake Candia (Northern Italy). *J. Limnol.*, 68: 352-358.
19. Ravera, O., Beone G.M., Fontanella M.C., **Riccardi N.**, Cattani I. (2009)b. Comparison between the mercury contamination in populations of *Unio pictorum mancus* (*Mollusca*, *Bivalvia*) from two lakes of different trophic state: the oligo-mesotrophic Lago Maggiore and the eutrophic Lake Candia. *J. Limnol.*, 68: 359-367.
20. Gherardi F., Bertolino S., Bodon M., Casellato S., Cianfanelli S., Ferraguti M., Lori E., Mura G., Nocita A., **Riccardi N.**, Rossetti G., Rota E., Scalera R., Zerunian S., Tricarico E. (2008) Animal xenodiversity in Italian inland waters: distribution, modes of arrival, and pathways. *Biological Invasions*, 10: 435-454.
21. **Riccardi N.**, Rossetti G. (2007) *Eudiaptomus gracilis* in Italy: how, where and why. *J. Limnol.*, 66: 64-69.
22. Ravera, O., Beone G., Trincerini P., **Riccardi N.** (2007)a Seasonal variations in metal content of two *Unio pictorum mancus* (*Mollusca*, *Unionidae*) populations from two lakes of different trophic state. *J. Limnol.*, 66: 28-39.
23. Ravera O., Frediani A., **Riccardi N.** (2007)b Seasonal variations in population dynamics and biomass of two *Unio pictorum mancus* (*Mollusca*, *Unionidae*) populations from two lakes of different trophic state. *J. Limnol.*, 66: 15-27.
24. **Riccardi N.**, Giussani G. (2007) The relevance of life history traits in the establishment of the invader *Eudiaptomus gracilis* and the extinction of *Eudiaptomus padanus* in Lake Candia (Northern Italy): evidence for competitive exclusion? *Aquatic Ecology*, 41 (2): 243-254.
25. Panov V.E., Krylov P.I., **Riccardi N.** (2004) Role of diapause in dispersal and invasion success by aquatic invertebrates. *J. Limnol.*, 63 (Suppl. 1) Diapause in aquatic invertebrates: 56-69.
26. **Riccardi N.**, Giussani G., Margaritora F., Couchaud B. (2004) Population dynamics of the pioneer population of *Daphnia parvula*, *Fordyce* during the invasion of Lake Candia (Northern Italy). *J. Limnol.*, 63(1): 44-52.
27. **Riccardi N.**, Giussani, G., Lagorio L. (2002) Morphological variation and life history changes of a *Daphnia hyalina* population exposed to *Chaoborus flavicans* predation (L. Candia, Northern Italy). *J. Limnol.*, 61 (1): 41-48.
28. **Riccardi N.** (2002) In situ measurement of *Daphnia longispina* grazing on algae and bacteria in a high mountain lake (Lake Paione Superiore, Northern Italy) by using fluorescently labelled cells. *Water, Air and Soil Pollution: Focus*, 2:343-357.
29. **Riccardi N.**, Mariotto L. (2000) Seasonal variations in copepod body length: a comparison between different species in the Lagoon of Venice. *Aquatic Ecology*, :34: 243-252.

30. **Riccardi N.** (2000) Comparison of different stoichiometric methods for the estimation of proximate biochemical composition of crustacean zooplankton and some considerations on energy transfer to planktophagous fish. *J. Limnol.*, 59 (2): 179-185.
31. **Riccardi N.**, Mangoni M. (1999) Considerations on the biochemical composition of some freshwater zooplankton species. *J. Limnol.*, 58: 58-65.
32. Ravera O., **Riccardi N.**, Targa C. (1998) Oxygen consumption and release rates of weight, carbon, nitrogen, phosphorus and sulphur from dead *Ulva rigida* (C. Ag.) (Chlorophyta) *Aquatic Ecology*, 31: 325-331.
33. Suarez-Morales E., **Riccardi N.** (1997) Redescription and first record of *Cymbasoma tenue* (Isaac, 1974) (Copepods: Monstrilloidea) in the Mediterranean. *Proc. Biol. Soc. Washington*, 110 (1) : 99-106.
34. Ravera O., **Riccardi N.** (1997) Biological monitoring with organisms accumulator of pollutants *Marine Chemistry*, 58: 313-318.
35. **Riccardi N.**, Solidoro C. (1996) The influence of environmental variables on *Ulva rigida*, C. Ag., growth and production. *Botanica Marina*, 39: 27 - 32.
36. **Riccardi N.**, Mangoni M. (1996) Chemical consequences of oxygenation studied by mesocosm technique. *J. Aquatic Ecosystem Health*, 5: 1-9.
37. **Riccardi N.**, Mangoni M., Piva A. (1991) The elemental (C, H, N, O, S) and biochemical composition of *Unio mancus* (Pfeiffer) and *Anodonta cygnea* L. (Mollusca, Lamellibranchiata). *Verh. Internat. Verein. Limnol.*, 24: 2960-2963.
38. **Riccardi N.**, Ravera O. (1989) Unionidae (Molluscs, Lamellibranchiata) used as an environmental indicator of radioactive contamination from the Chernobyl accident. *Environ. Technol. Lett.*, 10: 347-353.