

Erika Arcadi



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Current Position: Post Doc

Supervisor: Teresa Romeo

Appointed on project: Marine Hazard

Affiliation:

Section EMI, Stazione Zoologica Anton Dohrn, Napoli (Italy), Sicily Marine Centre, Messina, Italy.

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Department of Marine Biology and Ecology, University of Messina, Messina, Italy	Bachelor Degree	2007-2010	Marine Biology and Ecology
Department of Marine Biology and Ecology, University of Messina, Messina, Italy	Master Degree	2010-2011	Marine Biology and Coastal Marine environment
University of Messina, Italy	PhD	2012-2015	Marine Biotechnology
Institute for Coastal and Marine Environments (IAMC – CNR), Messina, Italy	PostDoc	2014-2015	Marine Microbial Biotechnology
Sicily Marine Centre, Department of Integrative Marine Ecology, Stazione Zoologica A. Dohrn, Sicily Marine Centre	PostDoc	2019-2023	Marine Biotechnology and Microbial Ecology

List of publications of the last 10 years:

Journal Papers

Battaglia P, Pedà C, Rizzo C, Stipa MG, Arcadi E, Longo F, Ammendolia G, Cavallaro M, Rao I, Villari A, Calogero R, Consoli P, Sinopoli M, Andaloro F, Romeo T (2023) How Rare Are Argonautoida Octopuses in the Mediterranean? New Data from Stranding Events, Stomach Contents and Genetics. *Biology* 12(3),420; <https://doi.org/10.3390/biology12030420>.

Calogero R, Rizzo C, Arcadi E, Stipa MG, Consoli P and Teresa Romeo (2022) Isolation and identification of Luminescent Bacteria in Deep Sea marine organisms from sicilian waters (Mediterranean Sea). *Journal of Marine Science and Engineering*, 10 (8) 1113.

Arcadi E*, Rastelli E*, Tangherlini M, Rizzo C, Mancuso M, Sanfilippo M, Esposito V, Andaloro F and Romeo T (2021) Shallow-water hydrothermal vents as natural accelerators of bacterial antibiotic resistance in marine coastal areas. *Microorganisms* MDPI, <https://doi.org/10.3390>

Rizzo C*, Arcadi E*, Calogero R, Sciutteri V, Consoli P, Esposito V, Canese S, Andaloro F and Romeo T (2021) Ecological and biotechnological relevance of Mediterranean hydrothermal vent systems. *Minerals* MDPI <https://doi.org/10.3390>

Leoni C, Volpicella M, Fosso B, Manzari C, Piancone E, Dileo M, Arcadi E, Yakimov MM, Pesole G, Ceci L (2020) A differential metabarcoding approach to describe taxonomy profiles of Bacteria and Archaea in the Saltern of Margherita di Savoia (Italy) *Microorganisms* 2020, 8(6), 936; <https://doi.org/10.3390/microorganisms8060936>.

Malara D, Battaglia P, Consoli P, Arcadi E, Canese S, Greco S, Andaloro F, Romeo T (2020) Evidence of a predation event on a tagged Mediterranean spearfish (*Tetrapturus belone*; Pisces, Istiophoridae), inferred from pop-up satellite tagging data. *Aquatic living resource*, doi: 10.1051/alr/2020024

La Cono V, Messina E, Rohde M, Arcadi E, Ciordia S, Crisafi F, Denaro R, Ferrer M, Giuliano L, Golyshin PN, Golyshina OV, Hallsworth JE, La Spada G, Mena MC, Shevchenko MA, Smedile F, Sorokin DY, Toshchakov SV, Mushegian A, Yakimov MM (2020) Symbiosis between nanohaloarchaeon and haloarchaeon is based on utilization of different polysaccharides. *PNAS* August 18, 2020 117 (33) 20223-20234; first published August 5, 2020; <https://doi.org/10.1073/pnas.2007232117>.

Golyshina OG, Toshchakov SV, Marakova KS, Gavrillon SN, Korzhankov AA, La Cono V, Arcadi E, Nechitaylo TY, Ferrer M, Kublanov IV, Wolf YI, Yakimov MM, Golyshin PN (2017). ARMAN archaea depend on association with euryarchaeal host in culture and in situ. *Nature Communication* vol. 8 doi: 10.1038/s41467-017-00104-7.

Messina E, Sorokin DY, Kublanov IV, Toshchakov S, Lopatina A, Arcadi E, Smedile F, La Spada G, La Cono V and Yakimov MM (2016). Complete genome sequence of “Halanaeroarchaeum sulfurireducens” M27-SA2, a sulfur-reducing and acetate oxidizing haloarchaeon from the deep sea hypersaline anoxic lake Medee. *Standards in Genomic Science*, doi: 10.1186/s40793-016-0155-9.

La Cono, V., Arcadi E, La Spada G, Barreca D, Laganà G, Bellocco E, Catalfamo M, Smedile F, Messina E, Giuliano L, and Yakimov MM (2015). A three-component microbial consortium from Deep-sea salt-saturated anoxic Lake Thetis links anaerobic glycine betaine degradation with methanogenesis. *Microorganisms* 2015, 3, 500-517; doi: 10.3390.

La Cono V, Smedile F, La Spada G, Arcadi E, Genovese M, Ruggeri G, Genovese L, Giuliano L, Yakimov MM (2015). Shifts in the meso- and bathypelagic archaea communities composition during recovery and short-term handling of decompressed deep-sea samples. *Environmental microbiology reports* 2015, 3 450-459; doi: 10.1111/1758-2229.12272.

Yakimov MM, La Cono V, La Spada G, Bortoluzzi G, Messina E, Smedile F, Arcadi E, Borghini M, Ferrer M, Schmitt-Kopplin P, Hertkorn N, Cray JA, Hallsworth JE, Golyshin PN, Giuliano L (2014). Microbial community of deep-sea lake Kryos seawater-brine interface is active below the chaotropy limit of life as revealed by recovery of mRNA. *Environmental Microbiology* 2014 aug 6

Yakimov MM, La Cono V, Smedile S, Crisafi F, Arcadi E, Leonardi M, Decembrini F, Catalfamo M, Barigela R, Ferrer M, Golyshin PN, Giuliano L, (2014). Heterotrophic bicarbonate assimilation is the main process of de novo organic carbon synthesis in hadal zone of Hellenic Trench, the deepest part of Mediterranean Sea. *Environmental Microbiology Report* 2014. Jan 10. doi: 10.1111/1758-2229.12192.

Yakimov MM, La Cono V, Slepak VZ, La Spada G, Arcadi E, Messina E, Borghini M, Monticelli LS, Rojo D, Barbas C, Golyshina OV, Ferrer M, Golyshin PN, Giuliano L (2013). Microbial life in the Lake Medee, the largest deep-sea salt-saturated formation. *Nature Scientific report* 2013. dec 19. doi: 10.1038/srep03554..

La Cono V, La Spada G, Arcadi E, Placenti F, Smedile F, Ruggeri G, Michaud L, raffa C, De Domenico E, Sprovieri M, Mazzola S, Genovese L, Giuliano L, Slepak VZ, Yakimov MM (2012). Partaking of Archaea to biogeochemical cycling in oxygen-deficient zones of meromictic saline Lake Faro (messina, Italy). *Environmental Microbiology* 2012 doi: 10.1111/1462-2920.12060.

La Cono V, Smedile S, Bortoluzzi G, Arcadi E, Maimone G, Messina E, Borhini M, Oliveri E, Mazzola S, L'Haridon S, Toffin L, Genovese L, Ferrer M, Giuliano L, Golyshin PN, Yakimov MM (2011). Unveiling microbial life in new deep-sea hypersaline Lake Thetis. Part I: Prokaryotes and environmental settings. *Environmental Microbiology* 2011 Apr 25. doi: 10.1111/j.1462-2920.2011.0247.