

## SHORT CURRICULUM – ENZO MESSINA

---

### CONTACT INFORMATION

#### **Enzo Messina**

Engineer - Technologist  
Institute for Biological Resources and Marine Biotechnology  
National Research Council (CNR)  
Spianata S. Raineri, 86  
98122 Messina – Italy

#### Phones:

- office: +39 090 6015428
- cell: -----
- fax: +39 090 669007

E-mail: [enzo.messina@cnr.it](mailto:enzo.messina@cnr.it)

Skype: messina.enzo

Google Scholar: <https://scholar.google.it/citations?user=39v9YrIAAAAJ>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=49964164000>

WOS: <https://www.webofscience.com/wos/author/record/3216268>

ORCID: <https://orcid.org/0000-0001-9042-0014>



### PROFESSIONAL PREPARATION

University of Padua      Padua, Italy      Electronic Engineering      Degree 2001

### LIST OF APPOINTMENTS

- 9/2018-present      Technologist of CNR - Institute for Biological Resources and Marine Biotechnology (IRBIM) in Messina
- 4/2016-9/2018      Technologist of CNR - Institute for Coastal Marine Environment (IAMC) in Messina
- 1/2008-12/2015      Research Grant of CNR - Institute for Coastal Marine Environment (IAMC) in Messina
- 6/2006-12/2007      Hardware Technical Consultant of CNR - Institute for Coastal Marine Environment (IAMC) in Messina

### LIST OF MOST SIGNIFICANT PUBLICATIONS

(Complete list is available on [Google Scholar](#))

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, Merkel AY, Shevchenko MA, Smedile F, Sorokin DY, Toshchakov SV, Yakimov MM (2020) **Symbiosis between nanohaloarchaeon and haloarchaeon is based on utilization of different polysaccharides.** *Proc Natl Acad Sci U S A* 117(33): 20223-20234. doi: 10.1073/pnas.2007232117.

La Cono V, Bortoluzzi G, Messina E, La Spada G, Smedile F, Giuliano L, Borghini M, Stumpp C, Schmitt-Kopplin P, Harir M, O'Neill WK, Hallsworth JE, Yakimov MM (2019) **The discovery of Lake Hephaestus, the youngest athalassohaline deep-sea formation on Earth.** *Sci Rep* 9(1): 1679. doi: 10.1038/s41598-018-38444-z.

Sorokin DY, Messina E, Smedile F, Roman P, Damsté JSS, Ciordia S, Mena MC, Ferrer M, Golyshin PN, Kublanov IV, Samarov NI, Toshchakov SV, La Cono V, Yakimov MM (2017)

**Discovery of anaerobic lithoheterotrophic haloarchaea, ubiquitous in hypersaline habitats.** *ISME J* 11(5): 1245-1260. doi: 10.1038/ismej.2016.203.

Messina E, Denaro R, Crisafi F, Smedile F, Cappello S, Genovese M, Genovese L, Giuliano L, Russo D, Ferrer M, Golyshin P, Yakimov MM (2016) **Genome sequence of obligate marine polycyclic aromatic hydrocarbons-degrading bacterium *Cycloclasticus* sp. 78-ME, isolated from petroleum deposits of the sunken tanker Amoco Milford Haven, Mediterranean Sea.** *Mar Genomics* 25: 11-13. doi: 10.1016/j.margen.2015.10.006.

Yakimov MM, La Cono V, Spada GL, 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 (2015) **Microbial community of the deep-sea brine Lake Kryos seawater-brine interface is active below the chaotropicity limit of life as revealed by recovery of mRNA.** *Environ Microbiol* 17(2): 364-82. doi: 10.1111/1462-2920.12587.

Tagliavia M, Messina E, Manachini B, Cappello S, Quatrini P (2014) **The gut microbiota of larvae of *Rhynchophorus ferrugineus* Oliver (Coleoptera: Curculionidae).** *BMC Microbiol* 14: 136. doi: 10.1186/1471-2180-14-136.

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.** *Sci Rep* 3: 3554. doi: 10.1038/srep03554.

Smedile F, Messina E, La Cono V, Tsoy O, Monticelli LS, Borghini M, Giuliano L, Golyshin PN, Mushegian A, Yakimov MM (2013) **Metagenomic analysis of hadopelagic microbial assemblages thriving at the deepest part of Mediterranean Sea, Matapan-Vavilov Deep.** *Environ Microbiol* 15(1): 167-182. doi: 10.1111/j.1462-2920.2012.02827.x.

Alcaide M, Messina E, Richter M, Bargiela R, Peplies J, Huws SA, Newbold CJ, Golyshin PN, Simón MA, López G, Yakimov MM, Ferrer M (2012) **Gene sets for utilization of primary and secondary nutrition supplies in the distal gut of endangered Iberian lynx.** *PLoS One* 7(12): e51521. doi: 10.1371/journal.pone.0051521.

La Cono V, Smedile F, Bortoluzzi G, Arcadi E, Maimone G, Messina E, Borghini 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.** *Environ Microbiol* 13(8): 2250-68. doi: 10.1111/j.1462-2920.2011.02478.x.

#### SUMMARY OF PAST AND CURRENT WORK

For almost 10 years, Enzo Messina has been working in the Bioinformatics division of Marine Molecular Microbiology and Biotechnology group inside the IAMC (now IRBIM) CNR of Messina, developing Unix pipelines for genomic and metagenomic analysis of numerous samples, assembling over a dozen of Halobacteria genomes, with relative gene annotation and submission on NCBI genome database. He has excellent computer skills, thirty years of experience on installation, configuration and optimization of the principal operating systems (Windows, Macintosh, Linux/Unix) and programming languages. **As for end of Oct, 2021 his Hirsh Index is 14, his i10-index 17, with more than 700 citations.**