ATTACH 2

The laboratory supports:

**Thesis for degrees** in:

* Bachelor's degree in Biological Sciences and Geological Sciences
* Master's degree in Molecular and Cellular Biology
* Bachelor's Degree in Chemistry and Chemistry of Materials
* Master's degree in Chemistry and in Photochemistry and molecular materials

**PhD:**

* Earth, Life and Environmental Sciences (STVA) BiGeA
* FishMed, BiGeA.
* Chemistry and Nanosciences for Medicine and Environment
* Mechanics and Advanced Sciences for Engineering

**Some of the national research projects supported by the laboratory**:

* PRIN 2020
  + - “Making possible the use of artificial metal catalysts in living systems” (CATALIVE)
    - Amplification Strategies for the Labeling and Detection of Infectious Agents (AStraLI)
* PRIN 2017
  + - "Functional supramolecular polymers for self-diagnostic composites" Protocol number: 20179BJNA2\_002
    - SUNSET - SUpramolecular and Nanostructured Systems for the analysis of Emerging pollutants through optical Transduction
    - "Quantum detection of chiral-induced spin selectivity at the molecular level"
* Other national projects
  + - ATTRACT 2019 "Intrinsic lasing within microalgae to monitor biofuel production (LASinAFuel)"
    - CARISBO Foundation 2019 “Determinazione di biomarcatori per la diagnosi precoce del cancro alla prostata”
    - ALMAIDEA 2018 "Biopolimeri fluorescenti e aggregazione proteica: un approccio multidisciplinare"
    - MISE Progetto ORTHO Line

**International research projects**:

* + - “ECL-based Infectious Pathogen (bio)Sensor” (ECLIPSE), call "Pathfinder-Open", UE Horizon Europe.
    - “MAGNIFY - From nano to macro: a groundbreaking actuation technology for robotic systems” H2020-EU.1.2.1- FET Open <https://www.magnifyproject.eu/>

**Some related papers made with the support of the Laboratory**

Scali V., Milani L. (2009) New Clonopsis stick insects from Morocco: the amphigonic C. felicitatis sp.n., the parthenogenetic C. soumiae sp.n., and two androgenetic taxa. Italian Journal of Zoology, 76(3):291-305. doi: 10.1080/11250000802649750

Milani L, Ghiselli F, Maurizii MG, Passamonti M (2011) Doubly Uniparental Inheritance of Mitochondria As a Model System for Studying Germ Line Formation. PLoS ONE 6(11): e28194. doi:10.1371/journal.pone.0028194

Milani L., Ghiselli F., Passamonti M. (2012) Sex-linked mitochondrial behavior during early embryo development in Ruditapes philippinarum (Bivalvia Veneridae) a species with the Doubly Uniparental Inheritance (DUI) of mitochondria. Journal of Experimental Zoology B (Molecular and Developmental Evolution), 318:182-189. doi: 10.1002/jez.b.22004

Milani L., Ghiselli F. (2015) Mitochondrial activity in gametes and transmission of viable mtDNA. Biology Direct, 10: 22. doi: 10.1186/s13062-015-0057-6

Milani L., Ghiselli F., Passamonti M. (2016) Mitochondrial selfish elements and the evolution of biological novelties. Current Zoology, 62(6):687–697. doi: 10.1093/cz/zow044

Evangelisti, F., Bonfitto, A., Morassi, M. & Sabelli, B. 2016 How many native Cerithium species in the Mediterranean Sea? An integrative taxonomic approach.Journal of Molluscan Studies 2016**.** <https://doi.org/>10.1093/mollus/eyv066

Morassi, M., Nappo, A. Bonfitto A. 2017. New species of the genus Otitoma Jousseaume, 1898 (Pseudomelatomidae, Conoidea) from the Western Pacific Ocean. European Journal of Taxonomy 304: 1–30 (<https://doi.org/10.5852/ejt.2017.304>)

Bonfitto, A. 2018. New species of Epitoniidae (Gastropoda: Epitonioidea) from the Red Sea. Molluscan Research, 32, 119-129. (<https://doi.org/>10.1080/13235818.2017.1385168)

Alibardi L. & Bonfitto, A. 2019. Morphology of setae in regenerating caudal adhesive pads of the gecko Lygodactylus capensis (Smith, 1849). Zoology 133, 1-9. (<https://doi.org/10.1016/j.zool.2019.01.003>)

Bonfitto, A. Smriglio C. 2020 Three new marginellid gastropods (Muricoidea: Marginellidae: Granunilinae) from the Red Sea and Djibouti (Gulf of Aden) Molluscan Research, 40 (6):77-85.