# CURRICULUM VITAE

# **ENRICO MONTALBETTI**

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# 1. PERSONAL INFORMATION

Name and Surname: Enrico Montalbetti Place and date of birth: Varese, 26/09/1992 Address: viale Giovanni Suzzani 96, Milano (MI), 20162, Italia Phone numbers: +39 3200719955 (mobile), +39 0264482956 (office) E-mail: enrico.montalbetti@unimib.it Webex: enrico.montalbetti@unimib.it (https://unimib.webex.com/meet/enrico.montalbetti) Google Meet: enrico.montalbetti@unimib.it SCOPUS Author ID: 57202038408 ORCID ID: 0000-0003-3932-1349 Google Scholar: https://scholar.google.com/citations?user=nK\_Qo9sAAAAJ&hl=it&oi=ao ResearchGate: https://www.researchgate.net/profile/Enrico-Montalbetti

# 2. SCIENTIFIC BACKGROUND

# UNIVERSITARY BACKGROUND

2023 – PhD in Chemical, Geological and Environmental Sciences, Marine and Environmental Sciences curriculum (XXXV cycle). Earth and Environmental Sciences Department, University of di Milano-Bicocca, Italy. Project title: "Mitigation factors of coral bleaching phenomenon and molecular implications for hard corals". Start: November 2019 – Obtained May 3<sup>rd</sup>, 2023. Grade: Excellent cum laude.

**2018** – **Master's degree in marine sciences.** Earth and Environmental Sciences Department, University of di Milano-Bicocca, Italy. Final dissertation title: "**Monitoring and assessing a 2-year outbreak of the corallivorous seastar** *Acanthaster planci* **in Ari Atoll, Republic of Maldives**". Start: October 2016 – Obtained: July 18th, 2018. Grade: 110/110 cum laude. (Attachment 1)

**2015** – **Bachelor's degree in Biological Sciences**. Earth and Environmental Sciences Department, University of di Milano-Bicocca, Italy. Final dissertation title: "**Fish corallivory on a pocilloporid reef and experimental coral responses to predation**". Start: October 2011 – End: February 25th, 2015.

#### PROFESSIONAL EXPERIENCES

**1 March 2023 – In progress. Post-doctoral fellow**. Project title: 'Analysis of the molecular processes involved in the mitigation of environmental stress in corals and development of field applications". Earth and Environmental Sciences Department (DISAT), University of di Milano-Bicocca, Italy.

**APRIL 2016 – AUGUST 2016. Naturalistic guide, marine biologist.** Diamonds Athuruga Resort, Ari Atoll, Maldives.

#### ADDITIONAL TRAINING

2013 – Underwater Sampling Techniques for Tropical Marine Ecology Research Practical Training. Biotechnology and Biosciences Department, University of Milano-Bicocca, Italy; Marine Research and High Education (MaRHE) Center, University of Milano-Bicocca. Dahab, Egypt. Start: September 28th – End: October 5th, 2013. (Attachment 2).

**2013** – **Tropical Marine Ecology Workshop.** Biotechnology and Biosciences Department, University of Milano-Bicocca, Italy; Marine Research and High Education (MaRHE) Center, University of Milano-Bicocca. Faafu Magoodhoo, Maldives. Start: February 13th – February 22nd, 2013 (Attachment 3).

# **3. SCIENTIFIC RESEARCH ACTIVITY**

#### SCIENTIFIC PROFILE

My research activity is focused on the following aspects of the molecular biology and ecology of marine invertebrates:

- (a) Molecular mitigation processes of cellular stress in marine organisms
- (b) Analysis of cellular stress biomarkers of benthic marine organisms experiencing environmental disturbances
- (c) Marine vertebrates and invertebrates corallivory and its ecological implications

Point (a) and (b) correspond to my principal research activity and my PhD project was focused on them. Global climate change is severely threatening many vital habitats worldwide, and shallow water

coastal environments such as tropical coral reefs are particularly affected by its effects. Corals, as well as others benthic organisms, conduct sessile life, being thus unable to physically escape stress conditions such as elevated temperature. Because of this, it is essential to study the strategies they adopt to limit environmental stress. Starting from 2020, during my PhD and related research, I examined the physiological processes involved in the stress response of marine benthic organisms, and their molecular ability to mitigate the grievous outputs of different stress sources. My main experimental focus involved tropical scleractinian corals and in particular model species of the genera *Stylophora, Acropora, Pocillopora*, but I have experience also with octocorals and sponges. In these model organisms I analysed different stress biomarkers, such as Heat shock proteins (Hsps), antioxidant enzymes (Superoxide dismutase (SOD), catalase (CAT), glutathione reductase and peroxidase (GR; GPoX), glutathione S-transferase (GST)), lipid peroxidation (LPO), stress response genes (RNA, transcriptomics)). This pool of markers allowed me to define different chemical/physical/biological elements as possible mitigating factors of catastrophic processes such as coral bleaching and related mass mortality, and to open new perspective about the cellular effects on less studied taxonomic groups of well-known pollutants such as microplastics.

Point (c) corresponds to my master thesis activity and post-graduation work. Corallivory is one the main causes of coral reefs decline in several regions worldwide (e.g., Australian GBR, Maldives...) and it can be accounted for almost 20% of coral cover loss globally. This is mainly because of the catastrophic effects of the outbreaks of the crown of thorns seastar species complex. In this context, I contributed to increase knowledge about this organism in a poorly studied region such as the Republic of Maldives, and I helped understanding the role of neglected corallivores such as the cushion seastar (*Culcita* spp.). In this regard, I reported the first case of outbreaking populations of *Culcita* sp. in the Maldives and the first spawning event in the same archipelago.

#### SCIENTIFIC PRODUCTION

Publications on Scopus indexed journals: 21

Non-indexed publications and book chapters: 5

Publications as first author: 7

Academic age: 6 years, since 2019

Metrics (source Scopus): Citations: 166, H-index: 9, Publications: 21

Metrics (source Google Scholar): Citations: 216, H-index: 8, Publications: 22

Documents and citations trend (Source: Scopus, updated: Feb 14<sup>th</sup>, 2024)

#### PUBLICATIONS ON SCOPUS INDEXED JOURNALS (Attachment 4)

- Isa, V., Seveso, D., Concari, E., Becchi, A., Saliu, F., Lasagni, M., ... & Montalbetti, E. (2025). Evidence of oxidative stress in the soft coral Pinnigorgia flava (Nutting, 1910) exposed to secondary plastic nanofibers and related leachates. *Environmental Pollution*, 366, 125433.
- Miller, G., Baillie, P., Chaona, G., Montalbetti, E., Ramshaw, J., & Aschauer, D. (2025). The morphological dietary preferences of an outbreaking population of corallivorous crownof-thorns sea stars (Acanthaster sp.) in the Gulf of Thailand. *Environmental Monitoring and Assessment*, 197(1), 1-15.
- Bises, C., Gobbato, J., Lainati, N., Dehnert, I., Siena, F., Seveso, D., Montalbetti, E., ... & Montano, S. (2024). Temporal patterns in coral disease prevalences at Thudufushi Island, Maldives, 2010-2022. *Diseases of Aquatic Organisms*, 159, 133-142.
- Gobbato, J., Work, T. M., Facchinelli, M. P., Siena, F. M., Montalbetti, E., Seveso, D., ... & Montano, S. (2024). Pathology of tissue loss in three key gorgonian species in the Mediterranean Sea. *Journal of Invertebrate Pathology*, 207, 108197.
- Isa V, Seveso D, Diamante L, Montalbetti E \*, Montano S, Gobbato J, ... Louis YD (2024). Physical and cellular impact of environmentally relevant microplastic exposure on thermally challenged Pocillopora damicornis (Cnidaria, Scleractinia). Science of The Total Environment, 170651. DOI: <u>10.1016/j.scitotenv.2024.170651</u> \*Corresponding author
- Maggioni D, Schuchert P, Ostrovsky AN, Schiavo A, Hoeksema BW, Pica D, Piraino S, Arrigoni R, Seveso D, Montalbetti E, Galli P, Montano S. (2023). Systematics and character evolution of capitate hydrozoans. *Cladistics* (0) 1-28. DOI: 10.1111/cla.12567
- Contardi M, Fadda M, Isa V, Louis YD, Madaschi A, Vencato S, Montalbetti E, ... Montano S. (2023). Biodegradable Zein-Based Biocomposite Films for Underwater Delivery of Curcumin Reduce Thermal Stress Effects in Corals. ACS Applied Materials & Interfaces 15(28), 33916-33931. DOI: 10.1021/acsami.3c01166
- Rizzi C, Seveso D, De Grandis C, Montalbetti E, Lancini S, Galli P, Villa S. (2023). Bioconcentration and cellular effects of emerging contaminants in sponges from Maldivian coral reefs: A managing tool for sustainable tourism. *Marine Pollution Bulletin* (192), 115084. DOI: 10.1016/j.marpolbul.2023.115084
- Montalbetti E, Cavallo S, Azzola A, Montano S, Galli P, Montefalcone M, Seveso D. (2023). Mucilage-induced necrosis reveals cellular oxidative stress in the Mediterranean gorgonian

Paramuricea clavata. *Journal of Experimental Marine Biology and Ecology* 151839. DOI: 10.1016/j.jembe.2022.151839.

- Montalbetti E, Isa V, Vencato S, Montano S, Lavorano S, Maggioni D, Galli P, Seveso D. (2022). Short-term exposure to microplastics triggers oxidative damage and cellular stress in *Coelogorgia palmosa* (Octocorallia: Alcyonacea). *Marine Biology Research* 1-14. DOI:10.1080/17451000.2022.2137199.
- Maggioni G, Huang D, Maggioni D, Jain S, Quek, RZB, Poquita-Du RC, Montano S, Montalbetti E, Seveso D. (2022). The association of *Waminoa* with reef corals in Singapore and its impact on putative immune and stress response genes. *Diversity* 14:300. DOI:10.3390/d14040300.
- Montalbetti E, Fallati L, Casartelli M, Maggioni D, Montano S, Galli P, Seveso D. (2022). Reef complexity influences distribution and habitat choice of the corallivorous seastar *Culcita schmideliana* in the Maldives. *Coral Reefs* 41:253-264. DOI:10.1007/s00338-022-02230-1.
- 13. Montano S, Dehnert I, Seveso D, Maggioni D, Montalbetti E, Strona G, Siena F, Amir H, Antoine A, Marino-Ramirez C, Saponari L, Shah NJ, Azcarte Molina R, Ortega AA, Galli P, Montoya-Maya PH. (2022). Effects of the COVID-19 lockdowns on the management of coral restoration projects. *Restoration Ecology* 30:1-12. DOI:10.1111/rec.13646.
- 14. Maggioni D, Garese A, Huang D, Hoeksema BW, Arrigoni R, Seveso D, Galli P, Berumen ML, Montalbetti E, Pica D, Torsani F, Montano S. (2022). Diversity, host specificity and biogeography in the Cladocorynidae (Hydrozoa, Capitata), with description of a new genus. *Cladistics* 38:13-37. DOI:10.1111/cla.12480.
- 15. Maggioni D, Schuchert P, Arrigoni R, Hoeksema BW, Huang D, Strona S, Seveso D, Berumen ML, Montalbetti E, Collins R, Galli P, Montano S. (2021). Integrative systematics illuminates the relationships in two sponge-associated hydrozoan families (Capitata: Sphaerocorynidae and Zancleopsidae). *Contributions to Zoology* 90:487-525. DOI:10.1163/18759866-bja10023.
- 16. Yuasa H, Kajitani R, Nakamura Y, Takahashi K, Okuno M, Kobayashi F, Shinoda T, Toyoda A, Suzuki T, Thongtham N, Forsman Z, Bronstein O, Seveso D, Montalbetti E, Taquet C, Eyal G, Yasuda N, Itoh T. (2021). Elucidation of the speciation history of three sister species of crown-of-thorns starfish (*Acanthaster* spp.) based on genomic analysis. *DNA Research* 28(4): dsab012. DOI: 10.1093/dnares/dsab012.
- Montalbetti E, Biscéré T, Ferrier-Pagès C, Houlbrèque F, Orlandi I, Forcella M, Galli P, Vai M, Seveso, D. (2021). Manganese benefits heat-stressed corals at the cellular level. *Frontiers in Marine Science* 8:803. DOI: 10.3389/fmars.2021.681119.

- Seveso D, Maggioni D, Arrigoni R, Montalbetti E, Berumen ML, Galli P, Montano S. (2020). Environmental gradients and host availability affecting the symbiosis between *Pteroclava krempfi* (Hydrozoa, Cladocorynidae) and alcyonaceans in the Saudi Arabian central Red Sea. *Marine Ecology Progress Series* 653:91-103. DOI:10.3354/meps13509.
- Maggioni D, Tatulli G, Montalbetti E, Tommasi N, Galli P, Labra M, Pompa PP, Galimberti A. (2020). From DNA barcoding to nanoparticle-based colorimetric testing: a new frontier in cephalopods authentication. *Applied Nanoscience* 10:1053-1060. DOI:10.1007/s13204-020-01249-6.
- 20. Montalbetti E, Saponari L, Montano S, Maggioni D, Dehnert I, Galli P, Seveso D. (2019). New insights into the ecology and corallivory of *Culcita* sp. (Echinodermata: Asteroidea) in the Republic of Maldives. *Hydrobiologia* 827:353-365. DOI:10.1007/s10750-018-3786-6.
- Saponari L, Montalbetti E, Galli P, Strona G, Seveso D, Dehnert I, Montano S. (2018). Monitoring and assessing a 2-year outbreak of the corallivorous seastar Acanthaster planci in Ari Atoll, Republic of Maldives. *Environmental monitoring and Assessment* 190(6):1-12. DOI: 10.1007/s10661-018-6661-z.

# NON-INDEXED PUBLICATIONS AND BOOK CHAPTERS (Attachment 5)

- Fallati L, Montalbetti E, Maggioni D, Neri E, Galli P (2023). Book chapter in: EDUCARE AL MARE. Riflessioni, esperienze e progetti per un'appropriazione cognitiva, affettiva e critica degli spazi oceanici, pp. 31-44.
- Montalbetti E, Vencato S, Saponari L, Seveso D. (2020). First observation of cushion seastar *Culcita* sp. spawning simultaneously with other Echinoderms species in Central Indian Ocean. *Galaxea, Journal of Coral Reef Studies* 22(1):51-52. DOI:10.3755/galaxea.22.1\_51
- Montalbetti E, Saponari L, Montano S, Seveso D. (2019). Another diner sits at the banquet: evidence of a possible population outbreak of *Culcita* sp. (Agassiz, 1836) in Maldives. *Galaxea, Journal of Coral Reef Studies* 21(1):5-6.
- Horoiwa M, Taquet C, Suharsono MF, Susanto HA, Phongsuwan N, Tay YC, Seveso D, Montalbetti E, Nagai S, Nadaoka K, Thongtham, Yasuda N. (2019). Distribution patterns of Indo-Pacific mtDNA lineages of coral-eating sea star (Acanthaster spp. and Culcita spp.) in the coral triangle region. *Proceedings of CWMD International Conference 2019*.

#### SCIENTIFIC COMMITTEE IN INTERNATIONAL CONGRESSES

**Chairman: 5th Asia Pacific Coral Reef Symposium (APCRS 2023)** Chairman of the session "Cellular and molecular processes involved in adaptation and mitigation of environmental stressors in Indo-Pacific coral reef organisms", Theme: "Responses to Environmental Change". National University Singapore. 19<sup>th</sup> – 23<sup>rd</sup> June 2023. website: <u>https://www.apcrs2023.org/. (Attachment 6)</u>

**Chairman: 13th Young Marine Researchers Conference (YOUMARES 2022)** Chairman of the session "Cellular and molecular response of marine organisms subjected to biotic and abiotic stress". Natural History Museum Berlin. 11<sup>th</sup> – 14<sup>th</sup> October 2022. website: <u>https://youmares.org/2022/.</u> (Attachment 7)

# PARTICIPATION IN SCIENTIFIC CONGRESSES

International congresses

- Montalbetti E, Gaglio D, Bonanomi M, Aramini T, Louis YD, Madaschi A, Galli P, Montano S, Seveso D. Metabolomics reveals different adaptation strategies to prolonged thermal stress in two coral species. *European Coral Reef Symposium (ECRS)*, 2<sup>nd</sup> 5<sup>th</sup> July 2024, Naples, Italy.
- Montalbetti E, Maggioni D, Louis YD, Ferrier-Pagès C, Houlbrèque F, Biscéré T, Montano S, Galli P, Milanesi E, Seveso D. Manganese benefits heat-stressed corals at the cellular level. *Asia-Pacific Coral Reef Symposium (APCRS)*, 19<sup>th</sup> – 23<sup>rd</sup> June 2023, Singapore.
- Montalbetti E, Biscéré T, Ferrier-Pagès C, Houlbrèque F, Orlandi I, Forcella M, Galli P, Vai M, Seveso D. *13th Young Marine Researchers Conference (YOUMARES 2022)*, 11<sup>th</sup> – 14<sup>th</sup> October 2022, Berlin, Germany. (Attachment 7)
- 4. Montalbetti E, Fallati L, Gobbato J, Dehnert I, Casartelli M, Maggioni D, Montano S, Galli P, Seveso D. Reef complexity influences distribution and habitat choice of the corallivorous seastar Culcita schmideliana in the Maldives. *IV Maldives Marine Science Symposium*, 13<sup>th</sup> 14<sup>th</sup> August 2022, Male, Repubblic of Maldives. (Attachment 8)
- Montalbetti E, Saponari L, Montano S, Maggioni D, Dehnert I, Galli P, Seveso D. New Insights into the Ecology and Corallivory of *Culcita* spp. (Echinodermata: Asteroidea) in the Republic of Maldives. *III Maldives Marine Science Symposium*, 12<sup>th</sup> – 13<sup>th</sup> December 2020, Male, Republic of Maldives. (Attachment 9)

 Montalbetti E., Saponari L, Maggioni D, Montano S, Galli P, Seveso D. New insights into starfish corallivory: The case of Culcita spp. in the Republic of Maldives. *European Coral Reefs Symposium*, 12<sup>th</sup> – 15<sup>th</sup> December 2017, Oxford, UK. (Attachment 10)

# National Congresses

- Montalbetti E, Isa V, Vencato S, Louis YD, Montano S, Lavorano S, Cerri F, Gobbato J, Madaschi A, Siena F, Galli P, Seveso D. Short-term microplastic exposure triggers cellular damage through oxidative stress in the soft coral *Coelogorgia palmosa*. 32<sup>•</sup> Congresso della Società Italiana di Ecologia (SITE), 6<sup>th</sup> – 8<sup>th</sup> September 2023, Catania, Italy
- Montalbetti E, Maggioni D, Gobbato J, Ferrier-Pagès C, Houlbrèque F, Orlandi I, Forcella M, Galli P, Vai M, Louis Y, Seveso D. Manganese benefits heat-stressed corals at the cellular level. *31<sup>o</sup> Congresso della Società Italiana di Ecologia (SITE)*, 13<sup>th</sup> 15<sup>th</sup> September 2022, Siena, Italy. (Attachment 11)
- Montalbetti E, Saponari L, Montano S, Maggioni D, Dehnert I, Galli P, Seveso D. New Insights into the Ecology and Corallivory of Culcita spp. (Echinodermata: Asteroidea) in the Republic of Maldives. 29° Congresso della Società Italiana di Ecologia (SITE), 10<sup>th</sup> – 12<sup>th</sup> September 2019, Ferrara, Italia. (Attachment 12)
- Montalbetti E, Saponari L, Maggioni D, Montano S, Galli P, Seveso D. Exploring the feeding ecology of the corallivorous starfish *Culcita* sp. in the Republic of Maldives. 27° Congresso della Società Italiana di Ecologia (SITE), 12<sup>th</sup> 15<sup>th</sup> September 2017, Napoli, Italia. (Attachment 13)

# 4. EDUCATIONAL ACTIVITIES AND TEACHING

# ACADEMIC COURSES

#### A.Y. 2022/2023

#### Academic course: Ecology Laboratory.

Mandatory course within the framework of the teaching "Ecology" at the bachelor's degree in Biological Sciences, Biotechnology and Biosciences Department, University of Milano-Bicocca, Italy. 30 hours (3 ECTS). Italian disciplinary sector reference: SSD BIO/05 (Attachment 14).

#### A.Y. 2021/2022

#### Academic course: Ecology Laboratory.

Mandatory course within the framework of the teaching "Ecology" at the bachelor's degree in Biological Sciences, Biotechnology and Biosciences Department, University of Milano-Bicocca, Italy. 10 hours (1 ECTS). Italian disciplinary sector reference: SSD BIO/05 (Attachment 15).

#### A.Y. 2020/2021

#### Academic course: Ecology Laboratory.

Mandatory course within the framework of the teaching "Ecology" at the bachelor's degree in Biological Sciences, Biotechnology and Biosciences Department, University of Milano-Bicocca, Italy. 10 hours (1 ECTS). Italian disciplinary sector reference: SSD BIO/05 (Attachment 16).

#### A.Y. 2019/2020

#### Academic course: Ecology Laboratory.

Mandatory course within the framework of the teaching "Ecology" at the bachelor's degree in Biological Sciences, Biotechnology and Biosciences Department, University of Milano-Bicocca, Italy. 40 hours (4 ECTS). Italian disciplinary sector reference: SSD BIO/05 (Attachment 17).

#### A.Y. 2018/2019

#### Academic course: Ecology Laboratory.

Mandatory course within the framework of the teaching "Ecology" at the bachelor's degree in Biological Sciences, Biotechnology and Biosciences Department, University of Milano-Bicocca, Italy. 10 hours (1 ECTS). Italian disciplinary sector reference: SSD BIO/05 (Attachment 18).

#### FURTHER ACADEMIC TEACHING

#### A.Y. 2022/2023

**Invited speaker.** Seminar at the Stress Ecology course, Master Degreee in Biology, Biotechnology and Biosciences Department, University of Milano-Bicocca, Italy. Title: "Mitigation factors of coral bleaching phenomenon and molecular implications for hard corals" (2 hours; December 14<sup>th</sup>, 2022) (Attachment 19).

**Invited workshop teacher.** Workshop at the Marine Ecology course, Master Degreee in Marine Sciences, Earth and Environmental Department, University of Milano-Bicocca, Italy. Title: "Basis of stress biomarker research in marine organisms" (6 hours; January 16<sup>th</sup> – 18<sup>th</sup>, 2023) (Attachment 19).

#### A.Y. 2021/2022

**Coordinator, Scientific Assistant for the workshop "Tropical Marine Ecology"**. Workshop (90 total hours) organised at Marine Research and High Education (MaRHE) Center, University of Milano-Bicocca, Republic of Maldives for students from University of Exeter (UK) (April, 14<sup>th</sup> – 22<sup>nd</sup>, 2022)(Attachment 19).

Scientific Assistant for the workshop "Tropical Marine Fishes: Identification and Ecology". Workshop (90 total hours) organised at Marine Research and High Education (MaRHE) Center, University of Milano-Bicocca, Republic of Maldives (May, 12<sup>th</sup> – 20<sup>th</sup>, 2022) (Attachment 19).

Scientific Assistant for the workshop "Coral Health and Disease Assessment". Workshop (90 total hours) organised at Marine Research and High Education (MaRHE) Center, University of Milano-Bicocca, Republic of Maldives (November, 30<sup>th</sup> – December 7<sup>th</sup>, 2022) (Attachment 19).

#### A.Y. 2020/2021

**Coordinator, Scientific Responsible for the workshop "Tropical Marine Ecology – Webinar & Virtual Lab"**. Online workshop (60 total hours) organised by Marine Research and High Education (MaRHE) Center, University of Milano-Bicocca, (January, 11<sup>th</sup> – 22<sup>nd</sup>, 2021) (Attachment 19)

Scientific Assistant for the workshop "Sustainable Tourism and Fragile Environment". Workshop (70 total hours) organised at Marine Research and High Education (MaRHE) Center, University of Milano-Bicocca, Republic of Maldives (February, 1<sup>st</sup> –9<sup>th</sup>, 2021) (Attachment 19).

#### A.Y. 2018/2019

**Coordinator, Scientific Assistant for the workshop "Tropical Marine Ecology"**. Workshop (90 total hours) organised at Marine Research and High Education (MaRHE) Center, University of Milano-Bicocca, Republic of Maldives for students from University of York (UK) (March, 25<sup>th</sup> – April 2<sup>nd</sup>, 2019) (Attachment 19).

AA.YY. 2016/2017 - 2022/2023

**Coordinator, Scientific Responsible for the workshop "Tropical Marine Ecology"**. Workshop (90 total hours per edition) organised by Marine Research and High Education (MaRHE) Center, University of Milano-Bicocca, (10 editions) (Attachment 19).

# $AA.YY.\ 2017/2018 - 2019/2020$

Scientific Responsible for the workshop "Marine and Land Survey". Workshop (50 total hours per edition) organised by Marine Research and High Education (MaRHE) Center, University of Milano-Bicocca, for students from Maldives National University (2 editions). (Attachment 19).

# 5. ABILITIES AND SKILLS

The experiences carried out to date personally and in the academic field allowed the acquisition of diversified skills in the fields of molecular biology and ecology, as well as SCUBA diving. A detailed list of the personal abilities and skills follows:

# SAMPLING SKILLS

- Destructive underwater sampling methodologies (collection of invertebrates, vertebrates, and matrices) and not destructive (collection of ecological and behavioral data through visual census).
- Breeding of marine invertebrates in the laboratory for stress and toxicological tests.

# LABORATORY SKILLS

- Protein analysis and quantification through western blotting, Enzymatic activity evaluation through spectrophotometric tests, real-time quantitative PCR, plate reader tests (e.g. VictorX) for metabolites quantification.
- Genetic analyses for the study of taxonomy, evolution and population genetics of invertebrates: extraction and purification of nucleic acids; amplification (PCR) and Sanger sequencing of fragments of DNA; data analysis.

• Use of software for statistical analysis (SPSS and basic R), image and video processing (Photogrammetry).

# LINGUISTIC SKILLS

- Italian: Native Language
- English language: Speaking C1, Reading C1, Writing C1
- French language: Speaking B1, Reading B2, Writing B1

# **DIVING SKILLS**

- Scuba Diving Instructor (October 1<sup>st</sup>, 2017), F.I.P.S.A.S. (Attachment 20)
- 1 Star Instructor CMAS (October 1<sup>st</sup>, 2017). (Attachment 20)
- 500+ registered dives
- 100+ scientific dives
- F.I.P.S.A.S. Nitrox Diver (Attachment 20)
- CMAS Nitrox Diver (Attachment 20)
- F.I.P.S.A.S. Night and low visibility Diver (Attachment 20)
- CMAS Night Diver (Attachment 20)
- F.I.P.S.A.S. Oxygen close circuit Diver (Attachment 20)
- F.I.P.S.A.S. Wreck Diver (Attachment 20)
- DAN Basic Life Support Instructor (Attachment 20)
- DAN Oxygen Provider Instructor (Attachment 20)
- DAN Automated External Defibrillator Instructor (Attachment 20)

# 6. AFFILIATION TO SCIENTIFIC SOCIETIES

# Member of the Italian Ecology Society since 2017

*Curriculum vitae dell'attività scientifica e didattica redatto ai sensi degli artt. 46 e 47 del D.P.R.* 28.12.2000, n. 445 (dichiarazioni sostitutive di certificazioni e dell'atto di notorietà).

Il sottoscritto **Enrico Montalbetti** nato a Varese il 26/09/1992 c.f. MNTNRC92P26L682U residente in Milano (MI) c.a.p. 20162, viale Giovanni Suzzani 96, ai sensi degli artt. 46 e 47 del d.p.r. 445/2000 e consapevole che le dichiarazioni mendaci sono punite ai sensi del Codice penale e delle leggi speciali in materia, secondo le disposizioni richiamate dall'art. 76 del D.P.R. 445/2000 dichiara quanto sopra riportato nel presente documento.