

PERSONAL INFORMATION

Daniela Basso



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 <https://scholar.google.it/citations?user=NDsln5oAAAAJ&hl=it>

ORCID ID orcid.org/0000-0002-9352-3569

Date of birth 13/11/1958 | **Nationality** Italy

Current Position Full Professor, SC 04/A2, SSD GEO/01

RESEARCH INTERESTS

Summary

My research is focused on marine habitat engineers that build calcareous frameworks, such as the Mediterranean algal reefs, by skeletal superposition through time. I'm interested in the process of bio-construction from inception to demise, its geomorphological role, and its natural and human-induced controls, including marine acidification and rise in temperature due to climate change. I use the paleontological methods for the study of recent benthic associations, for the identification of ecological baselines pre-dating the instrumental records and historical time series, as a contribute to conservation and management. I am the coordinator of the Marine Geology and Geobiology Lab at the Department of Earth and Environmental Sciences of the Milano-Bicocca University. I have been involved in numerous national and international projects and produced more than 225 scientific contributions in geobiology and benthic (paleo)ecology.

Bibliometric Indicators

SCOPUS: h-index 29

Google Scholar: h-index 33, citations 3505, i10-index 70

WORK EXPERIENCE

- | | |
|------------------------|---|
| Since 1 Oct. 2019 | Full Professor in Paleontology and Paleoecology (SSD GEO/01)
University of Milano-Bicocca – Dept. of Earth and Environmental Sciences |
| From Nov. 2006 to 2019 | Associate Professor in Paleontology and Paleoecology (SSD GEO/01)
University of Milano-Bicocca – Dept. of Earth and Environmental Sciences |
| From Dec. 2002 to 2006 | Researcher in Paleontology and Paleoecology (SSD GEO/01)
University of Milano-Bicocca – Dept. of Earth and Environmental Sciences |
| From 2001 to 2002 | Post-doc scholarship
University of Milano-Bicocca, Depth of Geological Sciences and Geotechnologies |
| From 1999 to 2001 | Post-doc scholarship
University of Milano, Depth of Earth Sciences |
| From 1997 to 1998 | Technical position for paleontological analyses for the EU Project AVICENNE
University of Milano, Depth of Earth Sciences |
| From Feb. to Apr. 1997 | CNR Scholarship
Plymouth Marine Laboratory (UK), responsible of the project "The quality of the information in the management of marine community data" |
| From 1994 to 1995 | Post-doc scholarship
University of Milano, Depth of Earth Sciences |

EDUCATION AND TRAINING

1989 **University Degree in Natural Sciences (four-years programme)**

University of Milano

- Thesis: "Live/dead benthic molluscan association off Montecristo Island (Tuscan Archipelago)".

From 1989 to 1992 **PhD in Earth Sciences**

University of Milano

- Thesis: "Calcareous rhodophyceans in the circalittoral soft bottoms of the Tyrrhenian Sea – the present-day rhodoliths in a paleoecological perspective".

PERSONAL SKILLS

Mother tongue

Italian

Other languages

	UNDERSTANDING		SPOKEN		WRITTEN
	Listening	Reading	Interaction	Oral	
English	C1	C2	C1	C1	C2
French	C1	C2	B2	B2	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Licenses

- SCUBA Diving, Assistant Instructor FIAS
- Driver license B

INSTITUTIONAL RESPONSIBILITIES

- Since 2019 Member of the Academic Council for the PhD in Chemical, Geological and Environmental Sciences of the University of Milano-Bicocca
Member of the Boards of Directors of the National Interuniversity Consortium for Marine Sciences (CoNISMa), delegate for the University of Milano-Bicocca
- 2018-2021 Member of the Management Board for the "Progetto di Eccellenza" of Milano-Bicocca, Dept. of Earth and Environmental Sciences
- 2018-2020 Member of the Management Board of the Dept. of Earth and Environmental Sciences
Director of the International Master's programme in Marine Sciences, University of Milano-Bicocca
- 2017-2019 Responsible for the Erasmus mobility programme for the International Master in Marine Sciences
- 2010-2015 Member of the scientific committee of the CUDaM, Milano-Bicocca University Dating Centre
- 2009-2015 Responsible for the Earth Sciences in the University of Milano-Bicocca Library Management Board
- 2008-2009 Co-proponent and scientific associate of the MaRHe outpost (Marine Center for Research and Higher Education) of the Milano Bicocca Univ. in Magoodhoo Island, Maldives
- 2006-2008 Coordinator for the Geological Sciences in the Master: Informatore Scientifico della Natura (Mediterraneo e Tropici)
- 2005-2007 Director of the National working group CEMT – Centro di Ecologia Marina Tropicale of CoNISMa (<http://www.conisma.it/it/il-centro-di-ecologia-marina-tropicale/>)

NATIONAL AND INTERNATIONAL GRANTS (last 10 years)

- From 2023 (ongoing) OACIS - Ocean liming in European seawater: a mesocosm scale approach, Fondation Prince Albert II de Monaco. PI of the International project
- From 2021 (ongoing) RESILIENCE - Understanding coral thermal bleaching thresholds during past Interglacial extremes: Insight into thermal Stress Dynamics on tropical Coral reef Ecosystems, Swiss National Science Foundation. Italian PI
- 2020-2023 FISR Grown in the Blue: new technologies for the knowledge and conservation of Mediterranean Reefs, funded by MUR. National PI
- 2020-2022 PON 2019 Attività di indagine geoarcheologica per l'AMP di Capo Rizzuto, Crotone.
- 2019-2021 Panacea_NMR-EU. Research grant for analyses of biogenic calcites in the framework of the EU project for networking of European facilities for Nuclear Magnetic Resonance.

- EULA Project Ecological implications of Ocean Liming for contrasting ocean acidification associated with climate change. In partnership with Politecnico di Milano.
- 2017-2019 *Marine Strategy* – National activity of implementation of the Marine Strategy Directive of the EU, coordinated by CoNISMa and ISPRA, for the Italian Ministry for the Environment. Research activity about the rhodolith beds habitat of the Capo Carbonara MPA (Sardinia, Italy).
- 2016-2017 SEMSEEP *South-Eastern Mediterranean Seep Carbonates*. A research project under the EUROFLEETS 2 initiative. Italian associate researcher for macrobenthos and chemosymbiotic faunas linked to cold seeps.
- 2012-2015 RITMARE – La ricerca italiana per il mare. CNR flagship project.

TEACHING ACTIVITY

- Tutor or co-tutor of dozens of graduate and master thesis in Earth Science and in Natural Sciences
Tutor or co-tutor of ten PhD thesis in Earth Sciences and Environmental Sciences (from University of Milano-Bicocca, University of Trieste, University of Messina, and Brno University - Czech Republic).
- Since 2002 General and systematic paleontology (undergraduate students of Earth Sciences)
Geobiology and Applied marine paleoecology (master students of Marine Sciences and Marine Geology)
- 2018 Organizer (Italian partner) of the CUSO (Conférence Universitaire de Suisse Occidentale) Tropical Marine Ecology and Sedimentology. Seminars and practical activity for doctoral students from the University consortium of Bern, Geneva and Fribourg. North Ari Atoll, Maldives, 1-9/9/2018.
- 2011 Marine Geology and geobiology of tropical environments (master: Marine Sciences for sustainable development).
- 2003-2006 Marine Geology and geobiology of tropical environments (master: Natural Science guides: Mediterranean and Tropics).
- 2010 Organizer (Italian partner) of the CUSO Tropical Marine Ecology: a case study at the Maldives, Faafu Atoll. Seminars and practical activity for doctoral students. 7-14/2/2010.
- 2006 Organizer (Italian partner) of the CUSO Coral Reef Ecosystems: past and present (a case study in the Red Sea). Seminars and practical activity for doctoral students. Sharm El-Sheik 1-8/10/2006.

ORGANIZATION OF SCIENTIFIC MEETINGS (last 10 years)

- 2024 Organizer and convener of the 13th International Symposium on Fossil Algae, Milano, 2-6/9/2024
Co-convener of the session *Not only z-corals: Quaternary reefs across the latitudinal and depth gradients*, at INQUA, Rome, 13-20/7/2023
- 2023 Member of the scientific committee at the 12th Intl Symposium on Fossil Algae, Lucknow – India, 16-24/9/2019.
- 2019 Convener of the session *Carbonate producers and Cenozoic platforms* at IMS, Rome, 13/9/2019.
- 2019 Co-convener of the session *Marine habitats and seascapes: from discovery to management*, at the International IALE Congress, Milano, 1-5/7/2019.
- 2017 Co-convener of the session *Bio-Geo-Interactions in non-tropical and tropical marine carbonate systems* at the IMS meeting (Intl. Association of Sedimentologists) 10-12/10/2017 (Toulouse, France).
- 2017 Co-convener of the national workshop and doctoral seminar on Seafloor mapping & Marine Space management, Univ. of Milano-Bicocca, 19-20/10/2017.
- 2015 Convener of the session *Sedimentology and geobiology of carbonate build-ups* at the IMS meeting (Intl. Association of Sedimentologists) 22-25/6/2015 (Krakow, Poland).
Co-convener of the COCARDE workshop *Biocostruzioni marine fossili e attuali della Sicilia: valorizzazione e divulgazione*, Museo Gemmellaro, Palermo (Italy), October 8, 2015.

FURTHER INFORMATION

National and international acknowledgments

- About 20 invited talks (scientific society congress, workshops, cultural events) in Italy, France, Switzerland, Germany, Brazil.
- 2024 Invited participation at the Monaco Ocean Week, panel on Ocean Alkalinity Enhancement
- 2014 Invited Visiting Professor at Université de Bretagne Occidentale (UBO), Brest, France.
- 2012 Triennale di Milano, VisionLab, invited participation in the exhibit *PinkVision – Art Science and Bricks* - with the artwork *Constructive competition* inspired by the sclerobiont competition for substrate occupation.

Research monographs and
chapters in collective volumes

Lo Iacono C; Savini A; Basso D. 2017. Cold-Water Carbonate Bioconstructions. In: A. Micallef, Krastel S, & Savini A (Eds.) Submarine Geomorphology, Springer. ISBN:978-3-319-57851-4

Basso D., Babbini L., Ramos-Esplá A.A., Salomidi M., 2016. Mediterranean rhodolith beds. In: Riosmena-Rodríguez R et al. (Eds), *Rhodolith/maerl beds: a global perspective*. Springer, sp. vol. ISBN 978-3-319-29315-8

Basso D., Granier B. (Eds), 2012. *Calcareous algae and global change: from identification to quantification*. Geodiversitas, special volume 34.

Vannucci G., Quaranta F., Basso D., 2009 - Historical type collections of fossil Corallinales and Sporolithales (Rhodophyta) in the Dip.Te.Ris. - Genova University. Aracne Editrice, Roma

Giaccone T., Giaccone G., Basso D., Bressan G. – 2009. Le alghe. In: G. Relini (Ed.) *Biocostruzioni marine*. Quaderni habitat 22, Museo Friulano di Storia Naturale, Udine, ISBN 88 88192 425: 29-49.

Basso D. & Corselli C. – 2007. Molluscan paleoecology in the reconstruction of coastal changes. In: Yanko-Hombach V., Gilbert A.S., Panin N., Dolukhanov P.M. (Eds.) *The Black Sea Flood Question: Changes in Coastline, Climate and Human Settlement*, 971 pp., Springer.

Basso D., Morbioli C., Corselli C. - 2006. Rhodolith facies evolution and burial as response to Holocene transgression at the Pontian Islands shelf break. In: Pedley HM, Carannante G (Eds). *Cool-water carbonates: depositional systems and palaeoenvironmental controls*. Geological Society of London, Special Publications, 255.

Nalin R., Basso D. & Massari F., 2006. Pleistocene coralline algal build-ups (*Coralligène de plateau*) and associated bioclastic deposits in the sedimentary cover of Cutro marine terrace (Calabria, Southern Italy). In: M. Pedley HM, Carannante G (Eds) *Cool-water carbonates: Depositional Systems and Palaeoenvironmental Controls*, Geological Society of London. Special Publication, 255.

Basso D., Thomson J. & Corselli C. – 2004. Indications of low macrobenthic activity in the deep sediments of the Eastern Mediterranean Sea. In: Sardà F., D'Onghia G., Politou C.-Y. and Tselepides A. (Eds.) *Mediterranean deep-sea biology*. Scientia Marina 68 (suppl. 3).

Basso D. - 1996. Adaptive strategies and convergent morphologies in some Mediterranean coralline algae. In A. Cherchi (Ed.) *Autoecology of selected fossil organisms: Achievements and Problems*, Boll. SPI, Sp. Vol 3.

Memberships

Società Paleontologica Italiana; International Association of of Sedimentologists; Intl Fossil Algae Association; Gruppo Algologia (Italian Botanical Society, Phycology); Società Geologica Italiana, Geologia marina e Sedimentologia

Evaluation of research

Member of the University panel for the monitoring of PRIN-PNRR projects

Member of the national commission for the Abilitazione Scientifica Nazionale, SC 04/A2

External evaluator of the scientific products for the Italian ANVUR

Member of the commission of final examination for the PhD title at the Universities of Milano, Rome, Trieste, Padua, Cosenza, Sassari, Portsmouth (UK); A Coruña (ES); Fribourg (CH), Lucknow, Pondicherry (India), Haifa (Israel).

Editorial activity

Associate Editor of the scientific journal *Carnets de Geologie*

Former Subject Editor of the scientific journal *Marine Biology Research for Marine Bioconstruction*

Former Assistant Editor of the scientific journal *Brazilian Journal of Botany*

Referee for the following journals (verified by Publons: <https://publons.com/author/621206/daniela-basso#profile>): *Australian J. Botany*, *Biogeosciences*, *Boll. SGI*, *Botanica Marina*, *Brazilian J. Oceanogr.*, *Cahier de Biologie Marine*, *Chemical Geology*, *Cryptogamie Algologie*, *Frontiers*, *Geodiversitas*, *GSA Bull.*, *Geological Quarterly*, *Geology*, *Helgoland Marine Research*, *J. Environ. Manag.*, *J. Mediterranean Earth Sciences*, *Lethaia*, *Marine Ecology*, *MEPS*, *Marine Petrol. Geol.*, *Medit. Marine Science*, *Micropaleontology*, *Palaios*, *Paleobiology*, *Palaeogeogr. Palaeoclimatol. Palaeoecol.*, *Paläontologische Zeitschrift*, *Phycologia*, *Phytotaxa*, *PLOS ONE*, *RIPS*, *Scientific Reports*, *Sed. Geol.*, *Sedimentology*, *Spanish Journal of Palaeontology*.