

Dr Chiara Lombardi - Curriculum Vitae

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PROFESSIONAL EXPERIENCE

RESEARCH

01/07/2024 to present- **Head of the Laboratory** Biodiversity and Ecosystems at Italian National Agency for New Technologies, Energy and Sustainable Resources (ENEA)

23/12/2010 to present- **Researcher** (*permanent position*) at Italian National Agency for New Technologies, Energy and Sustainable Resources (ENEA)

03/2007-22/12/2010 – Post doc at ENEA (VECTOR project (National Funding))

12/2005 -11/2006- ENEA-CNR fellowship (PRAI-FESR project (Regional Funding))

TEACHING

From 2009 to present- **Advisor for PhD, Master and Bachelor students**

15/08/2010- 08/2018- **'Doctoral School in Ecosystem Health and Conservation'** (EU-Erasmus Mundus project)

26/05-30/09/2012- **Lecturer, Doctoral School in Science and Technologies 'A. Volta'** - Course of Applied Marine Ecology and Geobotany- Curriculum Mares, University of Pavia

02-08/2011 – **Teacher, Master I Level** in Coastal Sciences (University of Parma), seminar on marine zoology, ecology and *in field* long term monitoring techniques

11/2008 – **Teaching assistant** in Ecology, Applied Ecology and Aquatic Ecology (freshwater and marine) at the University of Pavia

UNIVERSITY EDUCATION

18/02/2008 – **Doctor of Philosophy in 'Experimental Ecology and Geobotany'** (University of Pavia and Environmental Research Centre ENEA Santa Teresa (SP, Italy)).

Title: "Morphology, taxonomy and ecology of *Pentapora fascialis* Pallas, 1766 (Bryozoa, Cheilostomata).

21/06/2004 – **Professional qualification (licence to practise biology, national level)** (University of Pavia)

23/01/2004 - **Master's degree in Biological science**, University of Pavia (Italy)

Thesis title: "Relation between zooids size and sea water temperature trend in Cheilostome Bryozoa"

FUNDS RAISED

2025-2027 **National research, innovation and competitiveness programme for the Green Deal and Digital Transition: EMBRC-Deep In Act**, unit leader, project partner

2023-2026 **Italian National Recovery and Resilience Plan (PNRR): EMBRC-UP**, unit leader, project partner

2021-2023 **National Italian Program for Antarctic Research (PNRA) Project - BIOROSS**, unit leader, project coordination ENEA (PI: young researcher)

2018-2021 **National Italian Program for Antarctic Research (PNRA) Project - IceClimalizers**, Principal Investigator, project coordination ENEA

2017-2020 **National Italian Program for Antarctic Research (PNRA) Project - Graceful**, unit leader, ENEA as Associated Partner

2017-2019 **STRATUS- EU INTERREG program**, Italy-France, course coordinator on sustainable tourism actions (developing monitoring programs), ENEA as Associated Partner

2016- 2018 **Royal Society Exchange Grant**, unit leader, ENEA as Associated Partner

2010-2018 **MARES-Doctoral Program on Marine Ecosystem Health and Conservation**

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Member of Scientific Board and PhD Advisor, ENEA as Associated Partner

2011-2013 **MedSeA – Mediterranean Sea Acidification in a Changing Climate**
EU FP7, ENEA as Associated Partner

GRANTS AND PRIZES 06/2018 **Prize** “Hausman – Pateck Philippe” for the best ENEA Young Researcher of SSPT Department
20/08/2016-20/09/2016 Visiting Professorship position- **Institute of Oceanology Polish Academy of Science Sopot**
31/07-7/08/2010 Participation grants to **15th Congress of International Bryozoology Association** (Kiel, Germany)
06/2009-04/2010 **Prize ‘Progetto professionalità Ivano Becchi’, Foundation of the Bank Monte di Lombardia**
15/08-15/09/2007 **Grant ‘Synthesys’ (NHM, Londra)**

MEMBER OF COMMITTEES AND ASSOCIATION 07/2025 to present: **member of the Coordination Committee** of Long Term Ecological Research Network (LTER), JRU-IT
07/2023 to present: **ENEA representative** in European Marine Biological Resources Centre (EMBRC), JRU-IT
10/2024 to present: **member of Scientific Committee** Italian Climate Network (ICN)

OTHER QUALIFICATIONS 09/2022 to present: **European Scientific Diver (ESSD)**
12/2010 **Dive Master PADI**

LIST OF SELECTED PUBLICATIONS

Ciuffardi T., Becagli S., Raiteri G., Bordone A., Gabrielli E., Magalrdi M.G., Peirano A., Piccolin F., Gjanci P., Petrioli C., Spaccini D., Abbate M., Rossetti I., Varrella P., **Lombardi C.** (2025). Physical and biogeochemical variability in the Gulf of La Spezia (Eastern Ligurian Sea, Italy): insights from a new high-resolution coastal observatory. *Journal of Marine Systems*, 104156.

A Piwoni-Piórewicz, L H Liow, M Krzemińska, M Chełchowski, A Iglukowska, F Ronco, M Mazurkiewicz, A M Smith, D P Gordon, A Waeschenbach, J Najorka, B Figuerola, M K Boonzaaier-Davids, K Achilleos, H Mello, W K Florence, L M Vieira, A N Ostrovsky, N Shunatova, J S Porter, N Sokolover, R L Cumming, M Novosel, A O'Dea, **C Lombardi**, S S Jain, D Huang, P Kukliński (2024). Skeletal mineralogy of marine calcifying organisms shaped by seawater temperature and evolutionary history—A case study of cheilostome bryozoans. *Global Ecology and Biogeography*, DOI: 10.1111/geb.13874

F Ragazzola · M Nannini · G Raiteri · A Bordone · R Kolzenburg · E Romanelli · G Cerrati · D Pacella · L Gabellieri · F Andreoli · G Claps · C Vasapollo · A Marchini · F Gazzola · A Castelli · J Langeneck · G Chimienti · C Pipitone · F Montesanto · **C Lombardi** (2023). Early stage ecological communities on artificial algae showed no difference in diversity and abundance under ocean acidification. *Hydrobiologia*, <https://doi.org/10.1007/s10750-023-05425-x>

Lombardi C, Kukliński P, Spirandelli E, Bruzzone G, Raiteri G, Bordone A, Mazzoli C, López Correa M, van Geldern R, Plasseraud L, Thomas J, Marin F (2023). Antarctic Bioconstructional Bryozoans from Terra Nova Bay (Ross Sea): Morphology, Skeletal Structures and Biomineralization. *Minerals*, 13, 246. <https://doi.org/10.3390/min13020246>

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Lopez Correa M., Teichert S., Ragazzola F., Cazorla Vazquez S., Engel F.B., Hurlle K., Mazzoli C., Kuklinski P., Raiteri G., **Lombardi C.** (2023). Structural and geochemical assesment of coralline alga *Tethysphytum antarcticum* from Terra Nova Bay, Ross Sea, Antarctica. *Minerals*, 2023, 13, 215. <https://doi.org/10.3390/min13020215>

Ragazzola F., Marchini A., Adani M., Bordone A., Castelli A., Cerrati G., Laganeck J., di Marzo C., Nannini N., Raiteri G., Romanelli E., Santos M., Vasapollo C., **Lombardi C.** (2021). A life in the intertidal: Combined effects of acidification and winter heatwaves on a coralline alga (*Ellisolandia elongata*) and associated invertebrate community. *Marine Environmental Research* 105342, <https://doi.org/10.1016/j.marenvres.2021.105342>

Ragazzola F., Kolzenburg R., Adani M., Bordone A., Cantoni C., Cerrati G., Ciuffardi T., Cocito S., Luchetta A., Montagna P., Nannini N., Page D., Peirano A., Raiteri G., **Lombardi C.** (2021). Carbonate chemistry and temperature dynamics in an algae dominated habitat. *Regional Studies in Marine Sciences* 44, 101770.

Lombardi C., Kuklinski P., Bordone A., Spirandelli E., Raiteri G. (2021) Assessment of annual physico-chemical variability via high temporal resolution monitoring in an Antarctic shallow coastal site (Terra Nova Bay, Ross Sea). *Minerals* 11, 374. <https://doi.org/10.3390/min11040374>

Lombardi C., Taylor P.D., Cocito S. (2021) Bryozoans: the 'forgotten' bioconstructors. In: Perspectives on the Marine Animal Forests of the World. In: Rossi S., Bramanti L. (eds) Perspectives on the Marine Animal Forests of the World, 193-217. Springer, Cham. https://doi.org/10.1007/978-3-030-57054-5_7

Marchini A., Ragazzola F., Vasapollo C., Castelli A., Cerrati G., Gazzola F., Jiang C., Langeneck J., Manauzzi M.C., Musco L., Nannini M., Zekonyte J., **Lombardi C.** (2019) Intertidal Mediterranean Coralline Algae Habitat Is Expecting a Shift Toward a Reduced Growth and a Simplified Associated Fauna Under Climate Change. *Frontiers in Marine Science*. doi: 10.3389/fmars.2019.00106

Cecchetto M., **Lombardi C.**, Canese S., Cocito S., Kuklinski P., Mazzoli C., Schiaparelli S. (2019) The Bryozoa collection of the Italian National Antarctic Museum, with an updated checklist from Terra Nova Bay, Ross Sea. *Zookeys*. doi: 10.3897/zookeys.812.26964

Lucey NM, **Lombardi C.**, Florio M, Rundle SD, Calosi P, Gambi MC (2018) A comparison of life-history traits in calcifying Spirorbinae polychaetes living along natural pH gradients. *Marine Ecology Progress Series*. doi: 10.3354/meps12453

Ragazzola F., Raiteri G., Fabbri P., Scafè M., Florio M., Nannini M., **Lombardi C.** (2017) Structural integrity of *Ellisolandia elongata* reef: a mechanical approach to compare tensile strengths in natural and controlled environments. *Marine Ecology, an evolutionary perspective*. doi: 10.1111/maec.12455

Lombardi C., Taylor P.D., Cocito S., Bertolini C., Calosi P. (2017) Low pH conditions impair module capacity to regenerate in a calcified colonial invertebrate, the bryozoan *Cryptosula pallasiana*. *Marine Environmental Research* doi: doi.org/10.1016/j.marenvres.2017.02.002

Pilczynska J., Boavida J., Cocito S., **Lombardi C.**, Peirano A., Queiroga H. (2017) Low clonal propagation in Atlantic and Mediterranean populations of the red 1 gorgonian (*Paramuricea clavata*, Octocorallia). *Scientia Marina* doi: <http://dx.doi.org/10.3989/scimar.04473.05A>

Lucey N.M., **Lombardi C.**, Florio M., De Marchi L., Nannini M., Rundle S., Gambi M.C., Calosi P. (2016) An *in situ* assessment of local adaptation in a calcifying polychaete from a shallow CO₂ vent system. *Evolutionary Applications* doi:10.1111/eva.12400

Lucey N.M., **Lombardi C.**, De Marchi L., Schulze A., Gambi M.C., Calosi P. (2015) To brood or not to brood: Are marine organisms that protect their offspring more resilient to ocean acidification? *Scientific Reports* DOI: 10.1038/srep12009

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Nannini M., De Marchi L, **Lombardi C.**, Ragazzola F. (2015) Effects of thermal stress on the growth of an intertidal population of *Ellisolandia elongata* (Rhodophyta) from N-W Mediterranean Sea. **Marine Environmental Research** 112: 11-19 doi: <https://doi.org/10.1016/j.marenvres.2015.05.005>

Lombardi C., Cocito S., Gambi M.C., Taylor P.D. (2015) Morphological plasticity in a calcifying modular organism: evidence from an *in situ* transplant experiment in a natural CO₂ vent system. **Royal Society Open Science** 2: 140413. <http://dx.doi.org/10.1098/rsos.140413>

Taylor P.D., **Lombardi C.**, Cocito S. (2014) Biomineralization in bryozoans: present, past and future **Biological Reviews** doi: 10.1111/brv.12148

Donnarumma G., **Lombardi C.**, Cocito S., Gambi M.C. (2014) Settlement pattern of *Posidonia oceanica* epibionts along a gradient of ocean acidification: an approach with mimics. **Mediterranean Marine Science**, doi: <http://dx.doi.org/10.12681/mms.677>

Calosi P., Rastrick S., **Lombardi C.**, Hardege JD, de Guzman H.J., Giangrande A., Shulze A., Spicer J.I., Gambi M.C. (2013) Evidences for physiological adaptation in polychaetes species colonizing Mediterranean CO₂ vents: an *in-situ* transplant experiment. **Philosophical Transactions of the Royal Society B**, 368, 20120444

Lombardi C., Taylor P.D., Cocito S. (2013) Bryozoan Constructions in a changing Mediterranean Sea. In: S. Goffredo and I. Dubinsky (eds.) "The Mediterranean Sea: Its History and Present Challenges". Springer, pp. 373-384.

Micheli C., Cupido R., **Lombardi C.**, Belmonte A., Periano A. (2012) Changes in Genetic structure of *Posidonia oceanica* at Monterosso al Mare (Ligurian Sea) and its resilience over a decade (1998-2009). **Environmental Management** doi: 10.1007/s00267-012-9917-3

Cocito S., **Lombardi C.**, Ciuffardi F., Gambi M.C. (2012) Colonization of Bryozoa on seagrass *Posidonia oceanica*'mimics': biodiversity and recruitment patten over time. **Marine Biodiversity** doi: 10.1007/s12526-011-0104-1

Lombardi C., Cocito S., Gambi M.C., Cisterna B., Flach F., Taylor P.D., Keltie K., Freer A., Cusack M. (2011) Effects of ocean acidification on growth, organic tissue and protein profile of the Mediterranean bryozoan *Myriapora truncata*. **Aquatic Biology** 13: 251-262

Lombardi C., Gambi M.C., Vasapollo C., Taylor P.D., Cocito S. (2011) Skeletal alterations and polymorphism in a Mediterranean bryozoan at natural CO₂ vents. **Zoomorphology**, 130: 135-145

Peirano A., Cocito S., Banfi V., Cupido R., Damasso V., Farina G., **Lombardi C.**, Mauro R., Morri C., Roncarolo I., Saldaña S., Savini D., Sgorbini S., Silvestri C., Stoppelli N., Torricelli L., Bianchi C.N. (2011) Phenology of the Mediterranean seagrass *Posidonia oceanica* (L.) Delile: medium and long-term cycles and climate inferences. **Aquatic Botany**, 94: 77-92

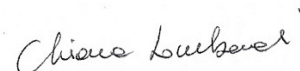
Lombardi C., Rodolfo-Metalpa R., Cocito S., Gambi M.C., Taylor P.D. (2011). Structure and geochemical alterations in the Mg calcite bryozoan *Myriapora truncata* under elevated seawater pCO₂ simulating ocean acidification. **Marine Ecology- An evolutionary perspective**, 32: 211-221

Rodolfo-Metalpa R., **Lombardi C.**, Cocito S., Hall-Spencer J., Gambi M.C. (2010) Effect of acidification and high temperatures on the bryozoans *Myriapora truncata* at natural CO₂ vents. **Marine Ecology- An evolutionary perspective**, 31: 447-456

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- Lombardi C.**, Taylor P.D., Cocito S. (2009) Systematics of the bryozoan genus *Pentapora* (Cheilostomata) from the Pliocene to Recent. **Zoological Journal of Linnean Society**, 160: 17-39 doi: <https://doi.org/10.1111/j.1096-3642.2009.00594.x>
- Lombardi C.**, S. Cocito, K. Hiscock, Anna Occhipinti, M. Setti, P.D. Taylor (2008) Influence of seawater temperature on growth bands, mineralogy and carbonate production in a bioconstructional bryozoan. **Facies**, 54: 333–342
- Lombardi C.**, Taylor P.D., Cocito S. (2008) Importance of zooidal polymorphs in the species-level taxonomy of bryozoans. **Journal of Morphology**, 269 (12): 1475
- Lombardi C.**, S. Cocito, Anna Occhipinti (2008) Distribution of *Pentapora fascialis* (Bryozoa, Cheilostomata) along the western Italian coasts. **Journal of Marine Biological Association of UK**, 88(4): 711-717
- Lombardi C.** (2007) Morphology, Taxonomy and Ecology of *Pentapora fascialis* Pallas, 1766 (Bryozoa, Cheilostomata). **Scientific Acta**, 1 (1): 47-50
- Lombardi C.**, S. Cocito, A. Occhipinti-Ambrogi, K. Hiscock (2006) The influence of seawater temperature on zooid size and growth rate in *Pentapora fascialis* (Bryozoa: Cheilostomata). **Marine Biology**, 149: 1103-1109



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All information should be kept strictly confidential and are supplied on the understanding that they will be held confidentially and not disclosed to third parties without the prior written consent of [Chiara Lombardi]'.

Lericci, 21/05/2026