

Gabriele Procaccini,

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Current Position: ricercatore I° livello, Director of Research

Current Affiliation: Department of Integrative Marine Ecology, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experiences

Institute and Location	Degree (if applicable)	Year	Field of Study
University Federico II of Napoli, Italy	Laurea in Natural Sciences	1986	Population ecology of Amphipods
private company BIOSERVICE (Napoli, Italy)	Member	1987-1989	Environmental impact studies
Stazione Zoologica Anton Dohrn	CNR fellowships	1990-1993	Molecular ecology of marine plants
Hopkins Marine Station of Stanford University, Pacific Grove, CA, USA	Visitor scientist	1990-1995 (total 24 months)	Seagrass ecology and population genetics
Fish and Wildlife National Forensic Laboratory, Ashland, Oregon, USA	Visitor scientist	1992 (1 month)	PCR technology on wildlife
University of Pisa, Italy	PhD in Environmental Sciences: Marine Ecology	1996	Seagrass population genetics and phylogeography
University of Western Australia, Perth, Australia	Visitor scientist	1996 (1 month)	Selection of microsatellite loci in seagrasses
Stazione Zoologica Anton Dohrn	Post-doc (temporary researcher)	1997-1999	Population genetics and phylogeography of marine macrophytes.
Stazione Zoologica Anton Dohrn	Staff Scientist	From 2000	Population genetics and adaptive response of seagrasses

Memberships and appointments:

From 2007 to now, Committee member of: Seagrass 2000, a Mediterranean seagrass organization

From 2013 Member of the Pool of Expert of the Regular Process for Global Reporting and Assessment of the State of the Marine Environment, United Nations

From 2013 to now, Committee member of the COI (Commissione Oceanografica Italiana)

From 2013 Full Professor Qualification in Ecology (National Scientific Habilitation, Italy. Valid 2014 to 2020)

From 2017 Dean of the PhD Program of the Stazione Zoologica Anton Dohrn, Napoli, Italy

From 2000 to 2002 member of the Editorial Board of Journal of Phycology;

From 2005 to now, member of the Editorial Board of Marine Ecology. An evolutionary perspective.

From 2011 to now, member of the Editorial Board of Marine Genomics

Scientific expeditions:

1994: participation to the Scientific expedition in the Magellan Strait (Joint Chilean-German-Italian Magellan “Victor Hensen” Campaign).

2011: *Chief Scientist* for the Diego-Panama leg of the international oceanographic expedition TARA-Oceans

Editorial activity

From 2000 to 2002 member of the Editorial Board of Journal of Phycology;

From 2005 to now, member of the Editorial Board of Marine Ecology. An evolutionary perspective.

From 2011 to now, member of the Editorial Board of Marine Genomics

Students' Supervision

- Tutor of 15 Master degree thesis,

- Tutor of 20 national and international PhD thesis

Others

- Member of national and international PhD examination panels (21 International and 10 National PhD Theses)

- Referee for national and international funding agencies and for more than 50 ISI journals

- Invited speaker in national and international institutes and organizer of international workshops and symposia

- Organizer of national and international courses, workshops and symposia.

Publications

Author of 138 papers on international referenced journals and of 12 book chapters.

At 17/02/2023: *Google Scholar*: H-index: 49. Total citations: 7714. *Web of Science*: H-index: 40. Total citations: 5028

10 selected publications in the last 10 years

- Pazzaglia J., Dattolo E., Ruocco M., Santillan Sarmiento A., Marin Guirao L., Procaccini G. 2023. DNA methylation dynamics in a coastal foundation seagrass species under abiotic stressors. *Proceedings of the Royal Society B* 290: 20222197.
- Sogin E., Michellod D., Gruber-Vodicka H., Bourceau P., Geier B., Meier D., Seidel M., Ahmerkamp S., Schorn S., D'Angelo G., Procaccini G., Dubilier N., Liebeke M. 2022 Sugars dominate the seagrass rhizosphere. *Nature Ecology and Evolution*, 6(7):866-877
- Nguyen H., Marín-Guirao L., Pernice M., Procaccini G. 2021 Seagrasses in an era of ocean warming: A review. *Biological Reviews* 96(5): 2009-2030
- Pazzaglia J., Reusch T.B.H., Terlizzi A., Marin Guirao L., Procaccini G. 2021 Phenotypic plasticity under rapid global changes: the intrinsic force for future seagrasses survival. *Evolutionary Applications*, 14:1181–1201. DOI: 10.1111/eva.13212
- Ruocco M., Entrambasaguas L., Dattolo E., Milito A., Marín-Guirao L., Procaccini G. 2021 A king and vassals tale: molecular signatures of clonal integration in seagrasses under chronic light shortage. *Journal of Ecology*, 109 (1): 294-312. DOI: 10.1111/1365-2745.13479
- Nguyen H.M., Kim M., Ralph P.J., Marín-Guirao L., Pernice M., Procaccini G. 2020 Stress memory in seagrasses: first insight into the effects of thermal priming and the role of epigenetic modifications. *Frontiers in Plant Science*, 11: 494
- Marín-Guirao L., Entrambasaguas L., Ruiz J.M., Procaccini G. 2019 Heat-stress induced flowering can be a potential adaptive response to ocean warming for the iconic seagrass *Posidonia oceanica*. *Molecular Ecology* 28: 2486–2501.
- Marín-Guirao L., Bernardeau-Esteller J., García-Muñoz R., Ramos A., Ontoria Y., Romero J., Pérez M., Ruiz J.M., Procaccini G. 2018 Carbon economy of Mediterranean seagrasses in response to thermal stress. *Marine Pollution Bulletin*, 135: 617-629
- Marín-Guirao L., Entrambasaguas L., Dattolo E., Ruiz J.M., Procaccini G. 2017 Mechanisms of resistance to intense warming events in an iconic seagrass species. *Frontiers in Plant Science*, 8, 1142
- Olsen J.L., Rouzé P., Verhelst B., Lin Y-C, Bayer T., Collen J., Dattolo E., De Paoli E., Dittami S., Maumus F., Michel G., Kersting A., Lauritano C., Lohaus R., Töpel M., Tonon T., Vanneste K., Amirebrahimi M., Brakel J., Boström C., Chovatia M., Grimwood J., Jenkins J.W., Jüterbock A., Mraz A., Stam W.T., Tice H., Bornberg-Bauer E., Green P.J., Pearson G.A., Procaccini G., Duarte C.M., Schmutz J., Reusch T.B.H., & van de Peer Y. 2016. Genome re-engineering from land to sea by the seagrass *Zostera marina*. *Nature* 530 (7590): 331-335.