

Laura Canesi

Professore ordinario di Fisiologia (BIOS-06/A)

EDUCATION AND TRAINING

1991/93: Post Doc fellowship in Biology, 1993/94: external expert CNR project "Biotechnology and Bioinstrumentation " (cn. 37/93.01056.70/115.01276) Institute of General Physiology, UNIGE.

1989/90: Fellowship CEE (contract EV4V-0163F, EDB), Lab. Biotransformation and cancerogenesis, Faculty of Medicine, Nice University.

1985/88: PhD in Marine Environmental Sciences, Institute of General Physiology, UNIGE.

1984: Degree in Natural Sciences, 110 cum Laude, UNIGE.

[Example: university degree, high school diploma]

PROFESSIONAL HISTORY

2016 – Present: Full Professor of Physiology ss 05/D1, ssd Bio/09, DISTAV (Dept. of Earth, Environment and Life Sciences), School of Sciences, Genoa University (UNIGE)

2005 -2015 Associate Professor ssd BIO/09 Physiology, Dept of Biology, Faculty of Sciences UNIGE

1998-2005: Associate Professor ssd BIO/09 Physiology, Institute of Physiological Sciences, Faculty of Environmental Sciences, Urbino University

1994-1998: Researcher ss. E04-E04A General Physiology, Institute of Anatomy and Physiology, Faculty of Pharmacy, Urbino University

[Previous positions held at this or other universities, etc]

ACADEMIC APPOINTMENTS

2017-: Included in the list of ASN evaluators

2017-2023: Coordinator of the BS and MS degrees in Natural and Environmental Sciences, DISTAV, UNIGE.

2021- present: Vice-Director, DISTAV, UNIGE

EXPERIENCE

Studies on physiology of marine organisms, invertebrates in particular, in relation to environmental and comparative aspects, utilizing the bivalve *Mytilus* as a prevalent model. The physiological regulation of functions in response to both endogenous and environmental stimuli has been investigated from the molecular to the organism level, with a comparative approach. Effects to environmental stressors on model organisms from physiological responses to pathophysiological conditions. Application of the biomarker approach to evaluate the health status in marine organisms. The results obtained imply potential applications in evaluation of environmental and human health.

LC research activity is documented by about 190 research articles and book chapters and over 200 national and international conferences, abstracts or proceedings, manuals.

<https://orcid.org/0000-0003-2061-3819>

Scopus Author ID: 7003351671
173 Documents, 13,263 citations
H-index Scopus at August 2025: 60.

ISI-WOS: 208 Documents, 10,663 citations
H index ISI-WOS at August 2025: 58.

Listed in:

-2019: World's Top 1.5% scientists (Ioannidis et al., 2019, PloS Biology. <https://doi.org/10.1371/journal.pbio.3000384>)

-2020: World's Top 2% Scientists by Stanford University, Sekar, M. 2020. DOI:[10.13140/RG.2.2.18594.45767](https://doi.org/10.13140/RG.2.2.18594.45767)

SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF COMPETITIVE CALLS INVOLVING PEER REVIEW

International

2006-2009: subcontract CNRS 009252 (Università di Montpellier) project n. 007103 FP6 IMAQUANIM: Improved Immunity for aquacultured animals

2006-2010: Component Genoa RU FP6 NUTRIDENT (STREP, Thematic Priority: Food Quality and Safety).

2011-2014: Component Genoa RU FP7 BIVALIFE Controlling infectious diseases in oysters and mussels in Europe, FP7-KBBE-2010-4

2016-2019: Scientific coordinator Genoa RU, EU project 671881, H2020-MSCA-ITN, PANDORA: Probing safety of nano-objects by defining immune responses of environmental organisms.

2016-2019: Component Genoa RU project 678589 H2020, VIVALDI: Preventing and mitigating farmed bivalve disease.

2018 Scientific coordinator Project Centre National de Ressources Biologiques Marines EMBRC-France Projet n° OOV-AAP 2018-2161. MERMAIDS: Impact of eMERging contaminants on *Mytilus galloprovincialis* early embryo biomineralization in the context of ocean acidification.

2022-27: EcoeFISHent (H2020-LC-GD-2020-3; N. 101036428). Demonstrable and replicable cluster implementing systemic solutions through multilevel circular value chains for eco-efficient valorization of fishing and fish industries side-streams (Participant)

National

PRIN2007: prot. 20079FELYB_002 PI Genoa RU: Utilization of the integrated approach biomarker/ proteomics transcriptomics in the evaluation of responses of the marine bivalve *Mytilus* to environmental contaminants.

PRIN2009: prot. 2009FHHP2W_002 PI Genoa RU: Il the edible bivalve *Mytilus* as a model for studying the effects of nanoparticles in marine invertebrates: responses from molecular to organism level.

2016-2018: Italian Ministry of Health: PI Genoa RU Progetto Ricerca Corrente 2015 IZSPLV 07/15 RC. Mortalità anomale di *Mytilus galloprovincialis* in relazione a stress ambientali: proposta di indicatori fisiologici per la tutela degli allevamenti.

2016-2018: Programma Nazionale di Ricerca in Antartide, PNRA16-00075B nanoPANTA: polymeric nanoparticles in the marine environmental and antarctic biota (Coordinator)

2023-25 PRIN2022 YHXCWP; Adverse impacts of plastic additive mixtures in the marine environment: from molecules to whole organism physiology (Coordinator)

2023-25: Spoke 2, "National Biodiversity Future Center - NBFC" CN00000013, CUP D33C22000960007 -PNRR, Missione 4 Istruzione e ricerca (participant)

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES

- 2017-: Member Editorial Board of Journal of Xenobiotics
- 2018-: Member Editorial Board of Invertebrate Survival Journal
- 2020 -: Member Editorial Board Nanomaterials, Frontiers in Marine Sciences