



Marco Giovine

Full professor

BIOS-08 A Molecular biology

EDUCATION AND TRAINING

1987

High School Diploma

Grade 60/60

"A. Issel" Scientific High School Finale Ligure (SV)

1991

Degree in Biological Sciences

Grade 110/110 cum laude University of Genova

1992

Diploma of qualification for the profession of biologist

University of Genova

1995

PhD in Biohemistry

Thesis: A new controlled release system for antiviral drugs based on the construction and characterization of bioreactor erythrocytes

University of Pavia

PROFESSIONAL HISTORY

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

1995-1996

Military Service

Italian Army

1996-1998

Post- doc Fellowship

University of Genova



1998-1999

Study grant fellowship

University of Genova

2000-2005

Technologist III level

Target Porject on Biotechnology National Research Council

2005-2024

Associate professor

Molecular biology University of Genova

2024-ongoing

Full professor

Molecular biology University of Genova

ACADEMIC APPOINTMENTS

2007-2019

Board Member of the State Examination for Professional Qualification as a Biologist

7 non-continuous years, as President or Member University of Genova

2011-2014

Member of the University Board referred to the procedures for granting authorizations to carry out assignments extra-institutional by full-time professors

University of Genova

2012-2014

Board Member of the University inspection service

University of Genova

2012-2014

Departmental executive committee member

DIPTERIS

Unversity of Genova

2014-2015

President of the First Level University Master

"Expert in food biotechnology" University of Genova

2014-2020

Rector's delegate for students orientation

Rector's executive committee member University of Genova

2021-ongoing



Departmental executive committee member

DISTAV University of Genova

2021-ongoing

President Strategic Centre

Sea Study Centre University of Genova

2025-ongoing

University disciplinary board member

Disciplinary actions concerning faculty members. University of Genova

INSTITUTIONAL APPOINTMENTS AT EXTERNAL ENTITIES

2017-2021

President of the Consultative Council of the Regional Agency for Student Support Services ALFA/ALISEO Liguria Region

2024-ongoing

Member of the Board of Directors of "Acquario di Genova Foundation ONLUS" Designated as representative of the University Acquario di Genova Foundation ONLUS

2025-ongoing

Member of the steering committee for "Promotion, development, enhancement of research, innovation and university and higher education activities" Regional Law no. 2 of 16.1.2007 Designated as representative of the University Liguria Region

SCIENTIFIC RESEARCH

MAIN TOPICS

Molecular biology and marine biotechnologies with a particular focus on invertebrates Specifically:

heat stress response;

molecular responses resulting from the interaction of animal cells with mineral structures; extracellular matrix proteins of porifera and their biotechnological applications; biomineralization mechanisms in siliceous sponges; pro-inflammatory processes in ancestral models (porifera).

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

2006-2009



"Biomineralisation for lithography and microelectronics (BIOLITHO)" STRP 031541 (FP6- STRP)

PI RU UniGE

EU project

2008-2009

Regulation of biomineralization mechanisms in marine organisms

PI National coordinator PRIN2007

Italian MIUR project

2009-2010

Establishment of experimental models for laboratory study of a family of key enzymes involved in the biomineralization process in siliceous sponges and corals

Italy-Germany bilateral cooperation Vigoni project. PI RU UniGE

MIUR/DAAD joined project

2010-2013

Sponge Enzymes and Cells for Innovative AppLications (SPECIAL), FP7 Grant agreement 266033

PI RU UniGE

EU project

2011-2013

Role of biosilica in Antarctic seas: ecological and physico-chemical aspects.

PI RU UniGE

CNR-PNRA project

2018-2020

Sponge MARiculture for innovative bioTechnological Exploitations" (SMARTEX)

Italy-Israel scientific cooperation PI RU uniGE

MAECI project

2018-2020

Marine Sponges as Sources for Bioinspired Materials Science

Italy-Germany bilateral scientific cooperation PI RU UniGE

DAAD-MIUR project

2024-2026

Spicule Mats: Advanced Research on technologies of naTure (SMART)

PI project coordinator

CNR-PNRA project

MAIN SEMINARS (LAST 10 YEARS)

2016

Marine sponges: a precious source of new biomaterials for biotechnology

Invited speaker, 11th International Marine Biotechnology conference- Baltimora- Maryland IMBS

2017



Recombinant production of hydroxylated non-fibrillar procollagen polypeptide and gelatin fragment derived from the marine sponge *C. reniformis*: a new biotechnological source of marine collagen

Invited speaker, International Symposium on Marine Science, Blue business and Society, Blanes, Spain

CSIC

2017

Interaction between silicon and marine invertebrates models: a comparative study Oral preentation IBiS 2017 Silicon, Silica and their isotopes, Blanes (Spain) CSIC

2017

Silica-induced fibrosis: an ancient response from the early metazoan

Oral presentation 10th World Sponge Conference, Galway (Ireland)

2022

Lysosome related Biosilica Machinery in the Demospongiae *Petrosia ficiformis*Oral presentation 11th World Sponge Conference Leiden (Netherlands)

2023

Collagen filaments derived from *Ircinia oros* (Schmidt, 1864) and *Sarcotragus fo*etidus (Schmidt, 1862): potential applications

Keynote lecture European Conference of Marine Biotechnology Malaga (Spain) ESMB

2025

Beached *Velella velella*: from waste to potential source of bioactives compounds Oral presentation 13th Internationl Marine Biotechnology Conference Brest (France)

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

2005

Young researcher award "CIB 2005"

For the research results titled: "Proteins involved in biosilicification processes in porifera: structural organization and prospects for biotechnological use"

CIB-Interuniversity Consortium of Biotechnologies

2019

Paul-J.-Scheuer-Preis on marine biotechnology

For the research activity on marine biotechnology

Akademie gemeinnütziger Wissenschaften zu Erfurt (Erfurt Academy of Useful Sciences)

PARTICIPATION IN THE CREATION OF NEW BUSINESS ENTITIES (SPIN-OFFS), DEVELOPMENT, USE AND COMMERCIALISATION OF ACADEMIC PATENTS

2011

MICAMO s.r.l.



Funding of the U.NI.TI project aimed at launching university spin-offs and start-ups. Cofounder of the company. Company still active under the name MICAMOLab srl MICAMOlab s.r.l.

2012

MUDS s.r.l.

Co-founder of a university spin-off pursuant to the Gelmini Law, aimed at developing an industrial patent for underwater wastewater treatment. Company still active MUDS srl

1994-2024

Co-inventor in various national and international patents in the field of biotechnologies CNR and University of Genova

OTHER MANAGEMENT, ORIENTATION OR THIRD MISSION ACTIVITIES

2005-2008

Scientific manager and coordinator of activities of the Marine Biotechnology Laboratory of the Advanced Biotechnology Center-Genova

Activities under an agreement between CNR and Advanced Biotechnology Center and between UniGe (DIBIO) and Advanced Biotechnology Center

Advanced Biotechnology Center-Genova

2015-2017

Coordinator of "schools portal" and "internships and theses portal" projects

Creation of web portal systems for qualitative-quantitative monitoring of inbound and outbound orientation activities

University of Genova

2014-2019

UniGE coordinator of the "Managerial Talents" project

Orientation project involving students and companies for mentoring activities with managers, carried out in collaboration with Manageritalia

University of Genova

2023-2025

Project coordinator "Scientific activity and science diplomacy activity" on board the Amerigo Vespucci training ship during the 2023-2025 world tour.

Project carried out in collaboration with the Italian Navy and the Hydrographic Institute of the Navy

Sea Study Centre University of Genova

LANGUAGE SKILLS

English