

Marco Scocchi CV

Born in Gorizia (Italy) on January 27 1964.

Actual address: Department of Life Sciences Via Giorgieri n. 5

University Campus, phone: +39-0405588704 mscocchi@units.it



Education and Training

1989: Graduated in Biology (110/110) Univ. of Trieste,

1990-1996 research fellow at CIB National Laboratory Interdepartmental biotechnology Consortium. Padriciano (Italy).

2000: Ph.D. degree in Biochemistry, Univ. of Udine.

Employment and Research Experience

2002 to 2015 : Research Scientist (BIO/10) Dept. of Life Sciences (ex Faculty of Science), Univ. of Trieste.

From 2015: Associate Prof. in Biochemistry (BIO/10), Dep. of Life Sciences. University of Trieste

Ongoing and completed research support:

- FRA2016 Grant for the research from University of Trieste 1/ 2016- 12/2018..20000
- Project Made in Trieste Area Science Park 3/2017-4/2018 19300
- Project e-health patient (art.12 FVG00008) 154750 Ministry of Education, Universities and Research 30/09/2016 3/2019
- Project FFC#14/2014-15 granted by Fondazione per la ricerca sulla Fibrosi Cistica. Role: P.I.
- FRA2014 Grant for the research from University of Trieste (2014- 2015). Role: coordinator.
- Project FFC#11/2012 granted by Fondazione per la ricerca sulla Fibrosi Cistica (2012- 2013). Role: P.I.
- Transborder Italy-Slovenia Trans border programme (interreg) 2011-2014. Network for technological innovation in aquaculture. Role: lead partner UniTS, co-P.I. (together with S. Passamonti Units).

Other experience and professional membership

- Member of: the Italian Society of Biochemistry and Molecular Biology (SIB); European Peptide Society (EPS); Member of American Society of Microbiology.
- Lecturer for the following courses: Clinical Biochemistry and Molecular Diagnostics with lab (2002-07), Biological Chemistry (2003-11), Marine Biochemistry (2004-10), Cell Biochemistry (from 2009) Laboratory of Biochemistry (from 2012) at Department of Life Sciences (ex Faculty of Science), Biochemistry (from 2016)
- Coordinator (from 2016) of the bachelor's degree in Scienze e Tecnologie Biologiche.

Scientific interests

The research programme coordinated by Marco Scocchi is focused on the biological role and on the biotechnological potential of natural bioactive peptides with antimicrobial properties. The "host defense peptides" (HDPs) or antimicrobial peptides (AMPs) are part of the innate immune system of eukaryotes and participate in the eradication/prevention of infections by killing pathogens and/or stimulating the immune system.

The objectives of the research's team are:

- **to investigate the molecular mechanism of AMPs activity and to improve their efficacy.** Unlike antibiotics, AMPs target and kill bacteria by multiple modes of action. We are working to understand these mechanisms, in order to exploit them against pathogens and to maximize the AMPs antimicrobial potential.

-to develop novel drugs AMPs derived by antimicrobial peptides. AMPs are promising leading compound to design new antibiotic molecules. Our final goal is to optimize the most promising AMPs for clinical use, combining high antibacterial activity with low toxicity and a reliable route of administration.

Personal bibliography

Prof. Marco Scocchi is Co-author of 80 publications (WOS) in international peer-reviewed journals and books (H-index: 35 Google Scholar, 31 Scopus). He attended to many national and international congresses, meetings and workshops, also as invited speaker contributing with more than 100 posters and communications.

A list of the peer-reviewed publications is available at https://arts.units.it/simple-search?query=Scocchi%2C+marco+#.W3_PkiRLi70