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Curriculum Vitae Prof. Paolo Zucca

Prof. Paolo Zucca is Associate Professor in Biochemistry at the University of Cagliari. He has joined the Biochemical Biotechnology research group @UNICA in 2007, working on several biological catalysts with potential industrial applications. Since then, he has co-supervised about two dozens undergraduate students. Throughout his academic career, he has authored over 50 full articles on impacted and peer-reviewed international journals. The global impact of his research is showed by [about 3000 citations and a Hirsh-index = 25](#).

The main research interest of Prof. Paolo Zucca has been centered on biomimetic catalysts emulating ligninolytic peroxidases. [He disserted his PhD thesis on this topic in 2011](#), in addition to publishing 7 research papers on peer-reviewed journals. Furthermore, he is the first author of a review article about biomimetic tools for delignification, confirming his significant contribution to this topic. In 2010 he was awarded a “Young Researcher” grant from Regione Autonoma della Sardegna (POR-FSE 2007-2013) for the project “Biomimetic catalysts for oxidative delignification of industrial wastes”. This grant did provide funding for a 2 years-research on the development of metalloporphines-based catalysts and their application on the oxidation of industrial wastes (such as lignin black liquor, textile dyes, and olive mill wastewater).

His research interests also encompass both fungal and plant polyphenol oxidases, and the characterization of plant antioxidant biochemistry. Along the years, Dr. Paolo Zucca has built a valuable network of research collaborators in several national and international universities, including Prof. William H. Flurkey (Indiana State University, USA), Prof. Giorgio Mastromei & Dr. Brunella Perito (University of Florence, Italy), Prof. Emil Dumitriu (Technical University Gh. Asachi, Iasi, Romania), Prof. Claus Jacob (Universitat des Saarlandes), Prof. Yovani Marrero-Ponce (Central University of Las Villas, Santa Clara, Cuba).

He is co-principal investigator in a [project funded by Sardegna Ricerche](#) (POR-FSE 2007-2013, total grant 170k €), about the economic exploitation of olive mill by-products. The research team – led by Prof. Enrico Sanjust – includes Prof. Juan Cegarra Rosique, from Consejo Superior de Investigaciones Científicas (CSIC), Murcia, Spain.

Since 2010, Prof. Paolo Zucca has held several academic courses of Biochemistry @UNICA in both Medicine and Biology&Pharmacy Faculties.

He acts as an *ad hoc* reviewer for several international journals.



Scientific Productivity Profiles:

[ORCID](#)

[Google Scholar](#)

[Scopus Author ID](#)

Career and education

2018 - Associate Professor at the Department of Biomedical Sciences, University of Cagliari

2013 - Fixed-term Researcher at the Department of Biomedical Sciences, University of Cagliari

2011 - PhD in Biology and Biochemistry of Man and the Environment, University of Cagliari

2007 – Master's Degree in Food Hygiene and Safety, University of Cagliari

2006 - Qualification to practice as a biologist

Academic courses at the University of Cagliari

Since 2024, ongoing: Chemistry and Propedeutic Biochemistry, 60 hours, 6 CFU, Single-Cycle Degree in Medicine and Surgery

Since 2025, ongoing: Chemistry and Propedeutic Biochemistry, 60 hours, Semester Filter, Medicine and Surgery

From 2017 to 2024: Chemistry and Propedeutic Biochemistry, 60 hours, 6 CFU, Single-Cycle Degree in Medicine and Surgery

Since 2013, ongoing: Biochemistry Laboratory, 72 hours, 6 CFU, BSc in Biotechnology/Industrial Biotechnology

Teaching assignments at the Specialisation Schools and PhD programs in UniCA

Since 2024, ongoing: School of Anaesthesia and Resuscitation

Since 2024, ongoing: School of Psychiatry

Since 2020, ongoing: School of Specialisation in Food Science

Since 2018, ongoing: School of Specialisation in Clinical Pharmacology and Toxicology

Since 2019, ongoing: Faculty Board of the PhD Program in Molecular and Translational Medicine

Management activities in UniCA

2024, Member of the CdS Promotion Committee in Marine Biotechnology and Aquatic Ecosystems

2024 - present, CoS Quality Assurance Coordinator in Medicine and Surgery

2018 - present, CoS Quality Assurance Coordinator in Biotechnology (L-2)

2018 - present, International Relations Commission of the Faculty of Biology and Pharmacy

2014 - present, International Relations Commission of the Faculty of Biology and Biotechnology



2024-present, President of the Orientation Commission of the Biotechnology Course
2018-2021, Member of the Orientation Commission of the Faculty of Biology and Pharmacy
2018-2021, Member of the Orientation Commission of the Biotechnology Course
2014-2018, Member of the Steering Committee CdS Industrial Biotechnology
2014-2018, Member of the Joint Teaching Committee CdS Industrial Biotechnology

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