

## CURRICULUM VITAE

**Paolo Solari** is Associate Professor of Physiology (SSD BIOS-06/A - Physiology) at the Department of Biomedical Sciences, University of Cagliari (UniCA), Italy.

### EDUCATION

1994: Degree in Biological Sciences, UniCA.

1995: Begins research activity in the Physiology labs of the Dept. of Experimental Biology, UniCA.

1996: Training course in the “Advanced Summer Course 1996 on Fish Chemoreception”, International Marine Center (IMC), Torregrande (OR), Italy.

1996-1998: Research scholarship for the study “Analysis of few parameters of the life cycle of the gypsy moth *Lymantria dispar*, insect of environmental interest in Sardinia”, UniCA.

1998: Stage in “Electrophysiological and neuroanatomical techniques in insects” at the ARLDN - Arizona Research Laboratories Division of Neurobiology, University of Arizona, USA.

2000-2002: Research scholarship, for the study “Analysis of morpho-functional parameters in sensory systems of insect species of agronomic, health and environmental interest”, UniCA.

2002-2022: Researcher of Physiology (SSD BIO/09), Univ. of Cagliari.

2019: National Scientific Habilitation as Associate Professor of Physiology.

2022 to date: Associate Professor of Physiology, UniCA.

### RESEARCH INTERESTS

- Morpho-functional properties and transduction mechanisms of the chemosensory systems in phytophagous and hematophagous insects
- Functional anatomy and motor programs at the base of “calling behavior” in female moths
- Morpho-functional properties at the base of the contraction mechanisms of the crop, a diverticulated organ of the insect digestive tract with food storage functions
- Chemoreception in decapod crustaceans: investigation on electrophysiological and behavioral responses to chemicals of feeding and reproductive significance
- Neurodegenerative disease mechanisms in the *Drosophila melanogaster* model

### PROFESSIONAL ACTIVITIES

2006-2010: Member of the Board of Professors of the Ph.D program in Morphological Sciences, UniCA.

2008: Member of the Organizing Committee of the 59th National Congress of the Italian Society of Physiology (SIF), Villasimius (CA), Italy.

2010-2013: Member of the Board of Professors of the Ph.D program in Morphological and Functional Sciences, UniCA.

2010:2013: Tutor and supervisor of a PhD student during the 26th cycle of the Ph.D program, UniCA.

2019-2020: “Guest Editor” of the Special Issue “Biodiversity of Insect” in the journal “Diversity” (MDPI Publisher).

2022-2024: “Editor” of the Topic “Arthropod Biodiversity: Ecological and Functional Aspects” (MDPI Publisher).

2024 to date: “Editor” of the Topic “Arthropod Biodiversity: Ecological and Functional Aspects, 2nd Edition” (MDPI Publisher).

## RESEARCH FUNDING

Participation to grants as a member of a research group:

- 2002-04: “Special Integrative Grant for Research (FISR, Italy)”
- 2008-10: “Research Projects of Relevant National Interest (PRIN, Italy)”.

Individual grants:

- 2011-13: Banco di Sardegna” Foundation (Italy)
- 2016-19: Foundation with the South (Italy)

## COLLABORATIONS

- Stazione Sperimentale del Sughero - Tempio Pausania (SS), Italy
- Prof. John Stoffolano (Dept. of Entomology, State University of Massachusetts, Amherst, MA, United States)
- Prof. Alan Gelperin (Dept. of Molecular Biology, Princeton University, United States)
- Prof. Alan Thomson (Adaptive Knowledge Management, Victoria, Canada)
- Prof. Gerd Gade (Dept. of Biological Sciences, University of Cape Town, South Africa)
- Prof. Sanjay Kasture (Pinnacle Biomedical Research Institute, India)
- Prof. Giovanni Galizia (Dept of Biology, University of Konstanz, Germany)
- Prof. Davide Dulcis (Dept of Psychiatry, University of California San Diego, United States)

## ACTIVITY AS JOURNAL REVIEWER

Journal of Insect Behavior, BMC Chemical Biology, Food Chemistry, Physiological Entomology, Journal of Insect Physiology, Insects, Fishes.

## TEACHING ACTIVITY

2003-2007: Module of the course “General Physiology”, BSc in Natural Sciences, UniCA.

2022-2024: Course of “General and Cellular Physiology”, BSc in Biotechnology, UniCA.

2025: Course of “Physiology”, BSc in Environmental and Natural Sciences, UniCA.

2022 to date: Module of the course “Physiology”, BSc in Health Assistance and TPALL, UniCA.

2004 to date: Course of “Physiology of Marine Organisms” for the Master’s Degree in Marine Bio-ecology, UniCA.

2004 to date: tutor and supervisor of several first-level Degree theses in Natural Sciences, Biology and Biotechnology and Master’s Degree theses in Marine Bio-ecology, UniCA.

## PUBLICATIONS

Author of 59 publications in international scientific journals indexed in PubMed, a book chapter and several presentations at national and international conferences. ORCID ID 0000-0001-8785-1438. Scopus Author ID: 6603879250.

A full list of publications is available in the section “Research > Research Outputs (IRIS)” at the web page [https://web.unica.it/unica/it/ateneo\\_s07\\_ss01\\_ssss01.page?contentId=SHD30829](https://web.unica.it/unica/it/ateneo_s07_ss01_ssss01.page?contentId=SHD30829).

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