

# **CURRICULUM VITAE - SILVIA CASINI**



## **PERSONAL DATA**

Name and surname: Silvia Casini

Date and place of birth: 12 July 1967, Siena, Italy

Nationality: Italian

Known languages: Italian (mother tongue), English (fluent), French (fluent), Spanish (elementary), Portuguese (elementary).

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## **EDUCATION**

July 1986: Scientific High School Diploma, Liceo Scientifico "G. Galilei" Siena - ITALY

8 March 1991: Degree in Biological Sciences, Department of Environmental Biology - University of Siena, Mark: 110/110 cum laude

May 1992: Qualification to the profession of biologist.

June 26, 1997: University of Siena, PhD in Environmental Biology, IX ° cycle Thesis title: "Alteration of porphyrin metabolism as a biomarker of exposure to environmental contaminants: development of non-destructive methodologies"

## **ACADEMIC CAREER**

November 1993 - October 1996 - PhD student in Environmental Biology - University of Siena.

December 1997 - January 1999 - CoNISMa postdoctoral fellowship at the Department of Environmental Biology - University of Siena.

February 1999 - January 2003 Research fellow at the Department of Environmental Sciences - University of Siena.

July 2003 - December 2004 Fixed-term employment relationship of category D in the technical, technical-scientific and data processing area lasting 1 year. Biomarkers Laboratory of the Department of Environmental Sciences "G. Sarfatti", University of Siena.

2005- 2007 Researcher SSD BIO 07 Ecology, at the Department of Environmental Sciences "G. Sarfatti" - University of Siena.

2006-2012 member (as Secretary) of the Didactics Committee of the Master's Degree Course in Techniques of Environmental Monitoring and Recovery and of the Master's Degree Course in Monitoring and Management of the Marine Environment.

2007-2011 Member of the board of the PhD COURSE IN ENVIRONMENTAL SCIENCES AND TECHNOLOGIES, University of Siena

2008- current date confirmed Researcher in Ecology SSD BIO 07, at the Department of Physical Earth and Environmental Sciences, (former Department of Environmental Sciences "G. Sarfatti") - University of Siena.

2011- 2014 Member of the board of the PhD course IN EARTH, ENVIRONMENTAL AND POLAR SCIENCES, University of Siena

2013-2017 member of the Committee for Teaching of the Degree Courses in Environmental and Natural Sciences, Department of Physical, Earth and Environmental Sciences.

2015-2020 Member (with delegation from the Rector of the University of Siena) of the Scientific Committee and Board of Directors of the Consortium for the Interuniversity Center of Marine Biology and Applied Ecology "G. Bacci "(CIBM) of Livorno.

2018: Achievement of National Scientific Qualification for Associated Professor in the Competition Sector 05 / C1 "Ecology" from 08 October 2018 - 08 October 2024.

2018-2021 Chair of the Committee for Teaching Degree Courses in Environmental and Natural Sciences (Bachelor's Degree in Environmental and Natural Sciences and Master's Degree in Ecotoxicology and Environmental Sustainability), Department of Physical, Earth and Environmental Sciences.

2018-2021 Coordinator of teaching activities for the Department of Physical, Earth and the Environmental Sciences, University of Siena.

2021-2023 President of the Society of Environmental Toxicology and Chemistry (SETAC) Italian Branch

Since the 1st of June 2021 Associate Professor in Ecology SSD BIO 07, Department of Physical, Earth and the Environmental Sciences, University of Siena.

## **RESEARCH PROFILE**

She is the author of over 340 scientific publications including articles and abstracts in international journals with IF, articles in national journals and book chapters, abstracts to international and national congresses, SCOPUS H index 24, n. of citations: 1476. She has participated as speaker to over 40 international conferences and workshops. She is member of: the "Society of Environmental Toxicology and Chemistry" (SETAC) EUROPE, the Italian Society of Ecology (ItE), the Society of Ecotoxicology and Environmental Safety (SECOTOX), the Union for Mediterranean Environment Task Force, the Mediterranean Biodiversity protection community (MBPC). She has had numerous research and training experiences at European universities and research institutions (Reading, Leicester, Plymouth (England), Odense (Denmark), Stavanger (Norway), as well as numerous work experiences in South America (Chile, Argentina and Brazil) for the evaluation of

ecotoxicological effects linked to anthropic activities. Currently she is co-head of the Biomarker Laboratory of the Department of Physical Earth and Environmental Sciences, University of Siena.

The research activities carried out since 1991 were mainly aimed at the development and application of innovative ecotoxicological investigation methodologies based on ecotoxicological biomarkers for the integrated monitoring of anthropogenic activities including activities related to agriculture and for the study of endangered species.

The multiple lines of research are summarized below:

1. USE OF BIOMARKERS FOR THE ECOTOXICOLOGICAL ASSESSMENT OF COASTAL ENVIRONMENTS
2. DEVELOPMENT OF NON-DESTRUCTIVE INVESTIGATION METHODOLOGIES BASED ON BIOMARKERS FOR THE STUDY OF THE ECOTOXICOLOGICAL STATUS OF MARINE TURTLES AND MARINE MAMMALS
3. PRESENCE AND TOXICOLOGICAL EFFECTS OF MACRO- AND MICRO-PLASTICS IN THE MARINE ENVIRONMENT.
4. EVALUATION OF THE SUB-LETHAL EFFECTS OF ENVIRONMENTAL CONTAMINANTS ON *APIS MELLIFERA*
5. NON-INVASIVE ECOTOXICOLOGICAL INVESTIGATIONS ON AVIAN SPECIES.
6. SUSTAINABLE AGRICULTURE: TOXICOLOGICAL EFFECTS OF FUNGICIDES AND OLIVE MILL WASTE ON EARTHWORMS.

Silvia Casini has participated to or led more than 30 research projects at national and international level. Among them she was the Scientific responsible of the UNISI partner of the Project Financed by the Tuscany Region under the Call for Rural Development Program - Integrated supply chain projects: "MODOLIVI" (2012-2015), "INNOVACEREALI" (2016-2018) and BASIQ (2016-2018) with the main role of investigating the presence and the effects of contaminants related to agricultural activities in non target organisms and contaminants in agrifood.

#### **TEACHING EXPERIENCE AND MANAGEMENT OF DIDACTIC ACTIVITIES**

Silvia Casini has carried out teaching activities in the SSD BIO07 – ECOLOGY and ECOTOXICOLOGY continuously starting from 2001 until today for the degree courses that have occurred over time at the Faculty of Mathematical, Physical and Natural Sciences of the University of Siena first and at the Department of Sciences Physics of the Earth and the Environment after and still at present. Since 2005 she has been supervisor of 44 experimental degree theses, and co-supervisor of 20 theses. She was Tutor of PhD theses, research grants and Post Doc grants.

Since 2006 she participated with leading roles in activities related to the organization of teaching, first as a member and secretary of committees for teaching, then as Committee Chair, also contributing to the drafting of regulations for new degree courses. Since 2013 she has been in charge of the Quality Assurance for the courses SaeN and ESA.

Teaching activities in the academic years 2016-2022:

- "Biological effects of pollutants" (6 CFU 60 hours) of the Course in Environmental and Natural Sciences - SAeN.
- "Quality and safety of agri-food production" (2 CFU 16 hours) of the Master's Degree Course in Ecotoxicology and Environmental Sustainability - ESA.

- “Management of marine environment resources” (6 CFU 56 hours) of the Master's Degree Course in Ecotoxicology and Environmental Sustainability - ESA.

Invited lecturer:

- AY 2017-2018, 2018-2019, 2019-20: Invited lecturer in the course of "Bioethics and Animals Experiments", Biochemistry Degree Faculty of Veterinary Medicine, University of Caceres, Spain on the following topics (6 hours): Effects of pesticides to nontarget terrestrial species, Non-destructive biomarkers in endangered species, In vitro testing for environmentally relevant chemical compounds.
- AY 2020-21, 2021-2022: invited lecturer (2 hours) with a lecture entitled “Interactions between proteins and environmental contaminants” in the course of “Protein biochemistry”, in the Master of Science in Biological Chemistry, University of Stavanger, Norway.