

CURRICULUM VITAE MONICA DEIANA

University of Cagliari
Department of Biomedical Sciences
Unit of Experimental Pathology
Cittadella Universitaria, S.P.8
09042 Monserrato (CA)
tel: 0039/070/6754126
e-mail: mdeiana@unica.it

PROFESSIONAL EXPERIENCE AND ACADEMIC ACTIVITIES

- 01/03/2021 – present* Associate Professor at the Department of Biomedical Sciences, University of Cagliari (SSD MEDS-02/A - General Pathology)
- 2013 - present* Member of the teaching staff committee of the Molecular Medicine (Molecular and Translational Medicine) PhD program.
- 2006 and 2011/2012* Member of the teaching staff committee of the Toxicology PhD program
- 2005 - present* Teaching activity at the University of Cagliari (within MEDS-02/A) in the Degree courses of the Faculty of Biology and Pharmacy (Bachelor's Degree in Experimental Biology, Bachelor's Degree in Biology, Bachelor's degree in Biotechnology, Master's Degree in Experimental and Applied Biology, Master's Degree in Food and Nutrition Sciences) and of the Faculty of Medicine (Degree in Medicine and Surgery, Degree in Biomedical Laboratory Techniques), with the teachings of General Pathology, Cellular Pathology, General Pathology and Pathophysiology, Laboratory of General Pathology, Pathology of Nutrition.
- 03/01/2005-28/02/2021* Permanent researcher at the Department of Biomedical Sciences, University of Cagliari (SSD MED / 04 - General Pathology)
- 21/07/1999-03/01/2005* Technician at the Department of Experimental Biology, University of Cagliari (D.R. 450 del 30/12/1998, assigned to SSD MED / 04-General Pathology).
- 11/01/1999-21/07/1999* Research contract (ex art.37, Legge Regionale n.2/49) at the Department of Experimental Biology, University of Cagliari (D.R. 493 del 22/01/98).

EDUCATION AND TRAINING

- 07/2018* Integrated training course (16 hours) "The relationships between training objectives, teaching methods and evaluation methods and criteria", within the DISCENTIA project, University of Cagliari.
- 05/1998* PhD in Experimental and Molecular Pathology, at the University of Turin.
- 1996/1997* Research period in the laboratories of the International Antioxidants and Neurodegenerative Disease Research Centre, Pharmacology Group, King's College, London, U.K., under the supervision of Prof. Okezie Aruoma and Prof. Barry Halliwell.

PERSONAL SKILLS AND COMPETENCIES

ORGANISATIONAL SKILLS AND COMPETENCES

2013 – present **Scientific coordinator of the Unit of Experimental Pathology**

2012 - present **Scientific coordinator** of 3 Research Grants and 7 Research Scholarships. Tutor and supervisor of 5 PhD students in the PhD Program in Toxicology and the PhD School in Molecular Medicine (Molecular and Translational Medicine) and of 16 undergraduate students in the Master's Degree in Food and Nutrition Sciences.

Research projects (last 10 years)

International and national research projects, admitted to funding on the basis of competitive calls

15/03/2012 – 15/03/2015	Head of research unit - Fundamental or basic research project funded by the Autonomous Region of Sardinia (LR 7/2007) entitled "Dairy products as functional foods: selection, characterization and use of autochthonous microorganisms with probiotic activity for the enhancement of Sardinian ovine cheeses"
13/06/2012 – 13/10/2014	Scientific coordinator - Fundamental or basic research project funded by the Autonomous Region of Sardinia (L.R. 7/2007) entitled "Comparative study of the phenolic fraction of monovarietal extra virgin olive oils characteristic of Sardinia in intestinal diseases"
27/03/2013 – 02/02/2017	Head of research unit - Fundamental or basic research project oriented to specific themes of close regional interest funded by the Autonomous Region of Sardinia (L.R. 7/2007) entitled "SARTOL"
27/03/2013 – 13/06/2015	Head of research unit - Fundamental or basic research project funded by the Autonomous Region of Sardinia (LR 7/2007) entitled "Chemometric applications for the evaluation and comparison of the quality of Sardinian sheep cheeses produced with autochthonous microorganisms with health-promoting activity"
15/06/2015 - 31/12/2019	Head of research unit - Research project funded by the Autonomous Region of Sardinia (L.R. 6/2012) entitled "POMIND".
10/12/2018 – 31/12/2020	Head of research unit - Research project funded by the Autonomous Region of Sardinia (POR FESR 2014-2020 - Axis 1, Action 1.1.3) entitled "SALQUA"
01/06/2021-17/04/2023	Head of research unit - Research project funded by the Autonomous Region of Sardinia (PSR 2014/2020 MISURA 16.2.) entitled FADDAFORM
01/11/2022-31/10/2025	Research unit component - project "(e)INS Ecosystem of Innovation for Next Generation Sardinia", National Recovery and Resilience Plan (PNRR), Mission 4 "Education and research" - Component 2 "From research to business" - Investment 1.5 - Creation and strengthening of "innovation ecosystems", construction of "territorial R&D leaders", Funded by the European Union - NextGenerationEU, MUR project code: ECS00000038, (CUP: F53C22000430001)
12/06/2024–30/09/2025	Scientific Coordinator - Research project entitled "FUNDAIRIES" funded by a competitive cascade call within the framework of OnFoods - Research and Innovation network on food and nutrition sustainability, safety and security", National Recovery and Resilience Plan - PNRR, Mission 4 "Education and research" – Component 2 "From research to business" – Investment Line 1.3 "Partnerships extended to universities, research centres, companies for the financing of basic research projects", PE_00000003, SPOKE 4, (CUP F33C24000290006), funded by the European Union – NextGenerationEU

Scientific studies and research funded by qualified public or private institutions

02/04/2012 – 31/12/2013	Research unit component - Research project funded by the Banco di Sardegna Foundation entitled "Extra virgin olive oil and inhibition of tumor growth: action of hydroxytyrosol and its metabolites" Prot. 826/2012.0730
03/06/2013 – 31/12/2014	Scientific Coordinator - Research project funded by the Banco di Sardegna Foundation entitled "Antioxidant activity of the phenolic fraction of extra virgin olive oil obtained from the Bosana cultivar in intestinal cells" Prot. 2013.1284
01/09/2014 – 28/02/2016	Scientific Coordinator - Research project funded by the Fondazione Banco di Sardegna entitled "Nutraceutical properties of table olives in brine "al naturale" prepared from Sardinian cultivars: evaluation of the protective effect in intestinal pathologies" Prot.2014.0290
31/03/2018 – 28/02/2020	Research unit component - Research project funded by the Fondazione di Sardegna entitled "Innovative antioxidant molecules for the food and health industry". CUP: F71117000180002
01/01/2024–31/12/2025	Research unit component - Research project funded by the Fondazione di Sardegna entitled "MIMOSA" Microbiome and plasma redox status evaluation in women with breast cancer: a preliminary study on potential association with alcohol consumption. CUP: F73C23001670007

SCIENTIFIC ACTIVITY

Scientific interest:

Scientific activity is mainly focused on the radical mechanisms of oxidative damage in relation to different pathological conditions and the action of antioxidant compounds. The research group has carried out several studies on the evaluation of the biological activity of antioxidants of food origin, compounds present in typical products of the Mediterranean Diet and their metabolites, using different experimental models, from the simplest in vitro systems to the most complex models on cell cultures and in vivo. Currently the scientific interest is mainly focused on the toxicity of lipid

oxidation products in relation to the inflammatory process and cell death, which characterize inflammatory bowel diseases and atherosclerosis, and on the modulatory activity of antioxidant compounds. The protective role of antioxidant compounds is evaluated both as direct antioxidant action, i.e. capacity to scavenge radical species, and as ability to modulate the cellular redox state, through the interaction with intracellular signaling pathways involved in the response to oxidative damage and in the inflammatory process.

Scientific review activity

01/01/2010 - present - Reviewer for: Journal of Agricultural and Food Chemistry, Food and Chemical Toxicology, Journal of Functional Food, Redox Report, Phytochemistry, Nutrition Metabolism and Cardiovascular Diseases, Food & Function, Nutrition Research

04/2020 – 12/2021- Guest Editor for Antioxidants, special issue "Dietary Bioactives and Their Metabolites as Modulators of Oxidative Stress and Inflammation".

Current national and international scientific collaborations

- since 2004 - Research group coordinated by Prof. Jeremy Spencer, Department of Food and Nutritional Sciences, University of Reading, Reading, UK - documented by common publications and collaborative doctoral thesis (Doctorate in Toxicology)

- since 2009 - Research group coordinated by Prof. Juan Carlos Morales, Instituto de Parasitología y Biomedicina "Lopez-Neyra", CSIC-Consejo Superior de Investigaciones Científicas, GRANADA - documented by common publications and student exchange trainees.

- since 2010 - Research group coordinated by Prof. Giuseppe Poli, Prof. Fiorella Biasi and currently by Prof. Gabriella Leonarduzzi Department of Clinical and Biological Sciences, University of Turin - documented by common publications and collaborative doctoral thesis (Doctorate in Toxicology)

- since 2015 - Research group coordinated by Dr. Giulia Corona and currently by Prof. Adele Costabile, Health Sciences Research Center, Life Sciences Department, University of Roehampton, London, UK - documented by joint publications and collaborative doctoral thesis (Doctorate in Molecular and Translational Medicine)

- since 2018 - Research group coordinated by Prof. Rafael de la Torre, Integrative Pharmacology and Systems Neurosciences research group, Neurosciences Research Program, Hospital del Mar Medical Research Institute (IMIM), Barcelona, documented by joint publications, post-doc student exchange and collaborative doctoral thesis (Doctorate in Molecular and Translational Medicine)

PUBLICATIONS

Multiple presentations at national and international conferences

Scientific output: 93 peer-reviewed publications in indexed journals with impact factors, h-index:36, cit. 3.865 (*scopus*, 14/04/2025)

Scopus Author ID: 6603860825

ORCID-ID: 0000-0002-7166-1856

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.

Cagliari, 14/04/2025