

Sara Rinalducci

 University of Tuscia, Department of Ecological and Biological Sciences, Largo dell'Università snc, 01100 Viterbo, Italy
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Sex: F | Date of Birth: 21 August 1974 | Nationality: Italian

POSITION

2015-present Associate Professor (ssd BIOS-08/A-Molecular Biology).
 Department of Ecological and Biological Sciences (DEB), University of Tuscia

WORK EXPERIENCE

2026-present Rector's Delegate for First- and Second-Cycle Academic Programmes and Teaching Quality Assurance, University of Tuscia

2017-present Member of the PhD Programme Board in *Ecology and Sustainable Management of Environmental Resources*

2015-present Associate Professor (ssd BIOS-08/A-Molecular Biology), University of Tuscia

2018-2025 Coordinator of the Bachelor's Degree Programme in *Biological Sciences* (L-13)

2016-2025 Coordinator of the Master's Degree Programme in *Cellular and Molecular Biology* (renamed *Experimental Biology and Bioinformatics* in the 2022–2023 academic year; LM-6)

2011-2016 Member of the PhD Programme Board in *Genetics and Cell Biology*

2011-2015 Assistant Professor (ssd BIOS-08/A-Molecular Biology), University of Tuscia

2004-2005 Guest Researcher, University of Southern Denmark (Supervisor: Prof. Roepstorff)

2003-2010 Research Fellow, University of Tuscia

EDUCATION

2000-2003 PhD in Biochemical and Biological Evolution, University of Viterbo

1999 Master's Degree in Biological Sciences, University of Viterbo, 110/110 cum laude

TEACHING AND SUPERVISION ACTIVITIES

- 2019-present** Lecturer in Molecular Biology (7 CFU), Bachelor's Degree in *Environmental Biological Sciences* (L-13), University of Tuscia
- 2018-present** Lecturer in Molecular Biology (9 CFU), Bachelor's Degree in *Biological Sciences* (L-13), University of Tuscia
- 2011-present** Lecturer in Advanced Molecular Biology (6 CFU), Master's Degree in *Cellular and Molecular Biology* (renamed *Experimental Biology and Bioinformatics* in the 2022–2023 academic year; LM-6), University of Tuscia
- 2017-2021** PhD Supervisor (2 students; ssd BIOS-08/A-Molecular Biology). PhD Programme in *Ecology and Sustainable Management of Environmental Resources* (curriculum: Environment, Adaptation and Health), University of Tuscia
- 2016-2018** Lecturer of Module I (5 CFU) within the Molecular Biology course, Bachelor's Degree in *Biological Sciences* (L-13), University of Tuscia
- 2011-2015** PhD Supervisor (2 students; ssd BIOS-08/A-Molecular Biology). PhD Programme in *Genetics and Cell Biology*, University of Tuscia

SCIENTIFIC RESPONSIBILITIES / RESEARCH PROJECTS

- 2023-2026** MUR PRIN-2022 Project. Title: "Exploitation of multiomic techniques to assess the risk of malignancy in patients with indeterminate thyroid nodules". RU Budget: 59.600 €
- 2022-2026** PNRR NextGenerationEU Project "National Research Centre for Agricultural Technologies" – Agritech. SPOKE 1 Plant, animal and microbial genetic resources and adaptation to climatic changes. RU Budget: 100.000 €
- 2021-2023** Progetti Gruppi di Ricerca 2020" Regione Lazio. Title: Salubrità Pescato Regione Lazio: un approccio multidisciplinare per lo sviluppo di metodi avanzati, rapidi e trasferibili per individuazione di patogeni e contaminanti (Prot. N. A0375-2020-36717). RU Budget: 33.000 €
- 2019-2023** International PRIMA Project (call 2018). Title: "IMPRESA - IMProving RESilience to Abiotic stresses in durum wheat: enhancing knowledge by genetic, physiological and omics approaches and increasing Mediterranean germplasm biodiversity by crop wild relatives-based introgressiomics". RU Budget: 307.000 €
- 2019-2023** MUR PRIN-2017 Project. Title: "ORIGINALE CHEMIAE in Antiviral Strategy - Origin and Modernization of MultiComponent Chemistry as a Source of Innovative Broad Spectrum Antiviral Strategy". RU Budget: 168.000 €
- 2019-2020** Research activity agreement with Associazione SAGEN - Salute, Ambiente, Genoma and AISA IMPIANTI S.p.A. (Arezzo). Title: Indagine epidemiologica e monitoraggio biologico inerenti l'attività dell'impianto di recupero integrale di rifiuti di San Zeno (AR). Budget: 48.000 €
- 2017-2020** MUR PRIN-2015 Project. Title: "IDO2, much more than a clone of IDO1: unveiling a new biological role for an ancient enzyme". RU Budget: 100.000 €

- 2014-2015** Research activity agreement with Haemonetics Corporation (USA). Title: Effects of Additive Solution (AS)-7, AS-3 and PAGGSM on red cell metabolism. Budget: 40.000 €
- 2014-2015** Research activity agreement with CIRDER - Centro Interdipartimentale di Ricerca e Diffusione per le Energie Rinnovabili (Orte, VT). Budget: 24.000 €
- 2014-2015** Research activity agreement with University Hospital of Cagliari. Title: Metabolomic study for new predictive and prognostic biomarkers in the diagnosis of labor. Budget: 45.000 €
- 2014-2015** Research activity agreement with National Blood Centre (CNS) - Italian Superior Institute of Health. Project title: "Biochemical stabilizing agents to improve RBC additive solutions and storage: analyses by proteomics and metabolomics". Budget: 25.000 €
- 2013-2014** Research activity agreement with University of Turin (ITALY). Project title: "Analisi proteomica, metabolomica per la qualità della carne bovina dopo macellazione". Budget: 45.000 €
- 2012-2015** Project title: "In vitro and in vivo studies on a new blood component platelet gel from cord blood" (RF 2009-1549214). Sponsoring institution: Italian Ministry of Health. Budget: 44.000 €
- 2012-2014** Research activity agreement with National Blood Centre (CNS)-Italian Superior Institute of Health. Project title: "Applicazione della proteomica allo studio degli effetti della lavorazione e conservazione di concentrati eritrocitari refrigerati o crioconservati, al monitoraggio di biomarkers dello stress ossidativo ed allo studio di farmaci plasma-derivati e ricombinanti". Budget: 125.000 €
- 2006-2007; 2011-2015** Project title: "Valorizzazione del patrimonio zootecnico italiano attraverso strumenti avanzati di genomica, trascrittomica e proteomica applicati alla selezione per la qualità dei prodotti e il benessere animale - GENZOOT". Sponsoring institution: Italian Ministry of Agricultural, Food and Forestry Policies (MIPAF). Budget: 480.000 €
- 2009-2011** Research activity agreement with National Blood Centre (CNS) - Italian Superior Institute of Health. Project title: "Applicazione della proteomica allo studio della conservazione dei concentrati eritrocitari in ambiente anaerobico: vantaggi e prospettive traslazionali. Analisi proteomica e caratterizzazione molecolare di concentrati di fattori VIII e IX plasma-derivati e ricombinanti". Budget: 300.000 €
- 2009-2011** Project title "Italian Platelet Technology Assessment Study (IPTAS)". Sponsoring institution: Italian Ministry of Health. Budget: 44.000 €
- 2009-2011** Project title: "Nutrigenomica mediterranea: dalla nutrizione molecolare alla valorizzazione dei prodotti tipici della dieta mediterranea - NUME". Sponsoring institution: Italian Ministry of Agricultural, Food and Forestry Policies (MIPAF). Budget: 150.000 €

PROFESSIONAL SKILLS

Main Research Activities	"Omics" sciences applied to research on clinical molecular biology and biochemistry (transfusion medicine, hereditary diseases and tumors) and on plant/microorganism biology (study of the effects of biotic and abiotic stresses)
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ADDITIONAL INFORMATION

Publications 90 papers in international peer-reviewed journals
h-index: 33
Total citations: 3877
6 book chapters
Full list available upon request
ORCID: <https://orcid.org/0000-0002-2703-6105>

Technology Transfer/Patents Patent application: ELVIRA - Tetraploid ornamental oleander (*Nerium oleander* L.). Status: Filing (Receipt No. A202502863, 20/06/2025)

Co-founder and participant in the academic spin-off "ECOSAFE S.r.l.", University of Tuscia. Status: Approved by UNITUS academic bodies (Academic Senate, 30/03/2026; Board of Directors, 31/03/2026)

Awards DSM-SCI prize awarded at the XXIst Congress of the Italian Chemical Society (Torino, 2003 June 22-27th) for advanced researches on photosynthetic proteins by using mass spectrometry.

Editorial Activities Editorial Board Member: Frontiers in Molecular Biosciences (ISSN 2296-889X)
Editorial Board Member: Cells (ISSN 2073-4409)

Guest Editor, Special Issue "Multi-omics to shed light on the pathogenesis of multifactorial diseases", Frontiers in Molecular Biosciences (ISSN 2296-889X)

Guest Editor, Special Issue "Contribution of Omics Sciences to Agricultural Biotechnology", Cells (ISSN 2073-4409)

Guest Editor, Special Issue "Metabolic Adaptation Processes in Cancer: Transcriptomic, Proteomic and Metabolomic Studies", Cells (ISSN 2073-4409)

Guest Editor, Special Issue "Metabolomics as a Tool for Functional Genomics", Cells (ISSN 2073-4409)

Guest Editor, Special Issue "Metabolomics in Plant Research", Cells (ISSN 2073-4409)

Conference Organization 3rd International Online Conference on Cells: Charming Micro-Insights into Health and Diseases. <https://sciforum.net/event/CELLS2025>. 25-27/03/2025

VII Annual Congress of the Italian Proteomics Association (ItPA). Viterbo, 12-15/06/2012

BVP-Blood and Proteomics Congress. Viterbo, 12-14/10/2009

COST FA0603 WG1 MEETING: Technical aspects inherent to Plant Proteomics. Viterbo, 5-6/05/2009

I Italian Plant Proteomics Workshop. Viterbo, 20-21/10/2008

II Congress of the Italian Proteome Society (IPSo). Viterbo, 29/05/ - 1/06/2005

**PERSONAL DATA PROCESSING
CONSENT**

I authorize the processing of my personal data in accordance with the EU
General Data Protection Regulation (GDPR) (EU) 2016/679.

Signature