

Prof. Germano Orrù

Curriculum vitae



<http://orcid.org/0000-0003-1032-4431>

Education and Training

- High School of Chemistry: 1981, Technical College “Michele Giua”, Cagliari.
- Diploma in Pathological Anatomy: 1982, A. Businco Hospital, Cagliari.
- B.Sc. degree: 1996 at the Cagliari University, Faculty of Science.
- Ph.D. in Biotechnology, 2001. Laboratory of Molecular Microbiology and Biotechnology. University of Siena.
- Master in “Human Nutrition” (second level), 2013. Department of General Physiology, University of Pavia, Faculty of Sciences.

Employment and Research Experience

- Full Professor of Applied Technical Medical Sciences from Dec. 2019-present. University of Cagliari, Faculty of Medicine, Department of Surgical Science. Italy.
- Associate Professor of Applied Technical Medical Sciences from 2015-Dec. 2019. University of Cagliari, Faculty of Medicine, Department of Surgical Science. Italy.
- Associate Researcher from 2017-present. National Research Council (CNR - ISPA) Italy.
- Head of Molecular Biology Laboratory , from 2019-present. University Hospital, AOU-Cagliari, Italy.
- Research Fellowship, 2009. Host-Microbe Interactomics group, Wageningen University, Netherlands.
- Assistant Professor of Applied Technical Medical Sciences from 2006 to 2015. University of Cagliari, Faculty of Medicine, Department of Surgical Science, Italy.

- Visiting research, 2006. Myazaki University, Japan.
- Ph.D student in molecular microbiology/biotechnology, from 1996 to 2001. LAMMB (Lab. of Molecular Microbiology and Biotechnology), University of Siena Department of Molecular Biology, Italy.
- Research Technician. Institute of Microbiology, from 1982-1996. University of Cagliari, Faculty of Medicine, Department of Surgical Science, Italy.

Teaching Activities:

https://web.unica.it/unica/it/ateneo_s07_ss01_sss02.page?contentId=SHD30784

Year 2025, faculty of Medicine, University of Cagliari

- Molecular Biology
- Bioinformatics
- Laboratory techniques
- Bacteriology and Parasitology techniques

Ph.D committee

- Innovation Sciences and Technologies, 2015-present, Cagliari University.
- Metrology, 2009-2013, Politecnico di Torino, (<https://www.polito.it/>).
- Experimental Periodontology, 2009-2012, University of Milano Bicocca.

Courses /Fellowships

- University of the West of England, UWE, UK (2011).
- Wageningen University Netherlands, (2009). Host-Microbe Interactomics (HMI) Prof Jerry Wells. <https://www.wur.nl/en/Research-Results/Chair-groups/Animal-Sciences/Host-Microbe-Interactomics.htm>
- University of Myazaki Japan (2006).
- Warnex Medical Laboratories, Montreal, Canada, (2005).

Consultant Referee

Journal of Virological Methods, Clinical Microbiology and Infection, Journal of Medical Virology, Cellular Probes, Ecotoxicology and Environmental Safety, The Open Dentistry Journal, Microbiology Research, BMC Research Notes, FEMS Microbiology Letters.

Editorial Board member

World Journal of Methodology, The Open Dentistry Journal, European Review for Medical and Pharmacological Science, Journal of Public Health Research,

Editor in chief of: Infectious Diseases and Tropical Medicine (Infect Dis Trop Med).

GenBank Submissions

269 different nucleotide sequences deposited as author

<https://www.ncbi.nlm.nih.gov/nucleotide/?term=Orr%C3%B9+G>

GISAID Submissions

338 SARS-CoV-2 genome sequences deposited as author

<https://www.gisaid.org/>

Publications 438

253 Articles in peer reviewed journals

174 Abstracts

1 Chapter books

2 Book

8 Patents

<https://scholar.google.it/citations?user=W7EzieMAAAAJ&hl=it>

Patents

1. BRAJON G, MANNU L, ORRU, G (2009). Metodo per il rilevamento e la quantificazione di microrganismi in campioni clinici umani o animali, alimentari o ambientali. 0001364697-IZS Lazio Toscana
2. ORRU' G, PIRAS V, RESCH A (2007). Procedimento e dispositivo di prima analisi del DNA e RNA per il rilevamento dei microrganismi. 0001385128, Università di Cagliari - CREATION S.R.L. |
3. OGGIONI M. R, ORRU' G, POZZI G (2002). Sistema binario di sonde fluorescenti per PCR real-time, metodo diagnostico e kit relativo. 0001333820, Università degli Studi di Siena.
4. POZZI G, ORRU, GERMANO (2001). Dispositivo per il trasporto di batteri anaerobi,. 0001323654, Università degli studi di Siena
5. POZZI G, ORRU, GERMANO (2001). Metodo di estrazione di acidi nucleici mediante elettro-adesione e relativo dispositivo. 0001323959, Università degli studi di Siena
6. CORVINO E, GAETA C, ORRU' G, Minacci A, POZZI G (2001). Oligonucleotidi da utilizzare come primer in PCR per il rilevamento di batteri patogeni parodontali, kit comprendenti tali oligonucleotidi e metodo per il loro uso. 0001323612, Università degli studi di Siena.
7. LACHOWICZ JL, PICHIRI G, PIRAS M, PILUDU M, ORRÙ G, CONI P, CONGIU T. (2020). Kojic acid derivative as selective inhibitor of mitosis in colorectal and glioblastoma

cancer cells “Derivato dell’acido cogico come inibitore selettivo della mitosi nelle cellule tumorali del colon-retto e del glioblastoma”, Università di Cagliari.

<https://people.unica.it/liaisonoffice/2020/11/20/derivato-dellacido-cogico-come-inibitore-selettivo-della-mitosi-nelle-cellule-tumorali-del-colon-retto-e-del-glioblastoma-2/>

N. 102020000022066/ US 2023/0338328 A1 Oct. 26 2023

8. PIRAS A, IBBA A, ORRÙ G, PORCEDDA S. (2020). *Rosa Canina* Rosehip “Estratto naturale da semi di rosa canina con elevata attività antimicrobica”, Università di Cagliari.

<https://people.unica.it/liaisonoffice/2021/01/08/rosa-canina/>

US 2024/0041054 A1 Feb. 08 2024

Public engagement activities (2024-2025)

- ✓ <https://www.gutmicrobiotaforhealth.com/author/germano-orru/>
- ✓ <https://www.facebook.com/Aoucagliari/videos/1386063619093356/>
- ✓ <https://www.isperdas.it/cibo-e-microbi/>
- ✓ <https://www.sharper-night.it/evento/birra-scienza/>
- ✓ <https://www.gutmicrobiotaforhealth.com/the-oral-microbiome-a-double-face-in-health-and-disease/>
- ✓ <https://www.canalesicilia.it/sala-gremita-a-brolo-per-il-convegno-scientifico-sul-microbiota-umano/>
- ✓ <https://www.raiscuola.rai.it/scienze/articoli/2023/12/Newton-Quello-che-sappiamo-Longevita-927e3aa8-e1d6-4666-b199-d0c77c9716d0.html>
- ✓ <https://www.rainews.it/tgr/sardegna/articoli/2023/02/il-segreto-della-longevita--nella-bocca-dei-centenari-354338c4-4645-4d6e-b5b5-65dbacfc353b.html>

Social media and social networking services

- ✓ **DNA- Interactive Lab.** <https://www.facebook.com/DNA.Interactive.Lab>

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Cagliari 08-04-2025

Germano Orrù, Ph.D Prof.