




PERSONAL INFORMATION

Parenti Rosalba

 Dipartimento di Scienze biomediche e biotecnologiche – Torre Biologica -Via Santa Sofia, 97. 95123 – Catania - Italy

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 <https://www.biometec.unict.it/it>

WORK EXPERIENCE

01.10.2023 to date

Full Professor Physiology

University of Catania

Teaching and Research Activities

2003 - 2023

Associate Professor Physiology

University of Catania

Teaching and Research Activities

1996 - 2003

Researcher of Physiology

University of Catania

Teaching and Research Activities

Academic activities

EDUCATION AND TRAINING

2014

Research Management and Internationalization of Competence Profiles

Specialized training of managerial, technical-commercial and scientific profiles for the economic enhancement of BRIT and University research in the Mediterranean Area

University of Catania

2005 - 2007

Researcher Collaborator

CNR - Functional Genomics Center - Institute of Neurological Sciences - Catania

Research Activity: Analysis of the genomic profile of cortical neurons in physiological conditions and exposed to apoptotic damage induced by exposure to beta-amyloid.

1997 - 1998

Researcher Collaborator

CNR - International Institute of Genetics and Biophysics - Napoli

Research Activity: Analysis of the genomic and chromosomal organization of the Cx36 and generation of the animal model Cx36 knock-out.

1992-1995

PhD in Neuroscience

University of L'Aquila

Research and Training activity

1994

VISITING RESEARCHER

CNRS URA. Paris - Ecole Normale Supérieure. Développement et évolution du système nerveux, équipe atipe niveau 3.

Research Activity

1985-1989	Degree in Pharmacy
	<i>University of Catania</i>
1981-1985	Classical high school
	<i>"Mario Cutelli" Institute, Catania</i>

WORK ACTIVITIES

1996 to date	Teaching Activity
	University of Catania
	Physiology courses in the following main degree courses
	<ul style="list-style-type: none"> - Medicine and Surgery - Pharmacy - Medical Biotechnologies - Motor Sciences - Specialization in Nutrition Sciences
2017 to date	Scientific Manager - "Radioactive Drug and Hadrontherapy Chain".
	University of Catania
	Partners:
	<ul style="list-style-type: none"> - Cannizzaro Emergency Hospital of Catania. - National Southern Laboratories of the National Institute of Nuclear Physics. - CNR Institute of Bioimaging and Molecular Physiology.
2007 to date	Member of PhD College in "Biotechnologies"
	University of Catania
2018-2022	Director of the II level Master "Molecular and translational imaging: from preclinical to clinical"
	University of Catania

INSTITUTIONAL ACTIVITIES

2009 to date	Deputy Rector
	University of Catania
	<ul style="list-style-type: none"> - 2017-to date: "Center for Advanced Preclinical in vivo Research – CAPiR" - 2008-2017: "Animal house for preclinical experimentation " - 2009-2012: "Communication"
2012-2016	Academic Senator
	University of Catania
2009-2012	Deputy Director - Department of Biomedical and Biotechnological Sciences
	University of Catania
2009 - 2010	Director Department of Physiological Sciences
	University of Catania
2008-2009	Deputy Director - Department of Physiological Sciences
	University of Catania

RESEARCH ACTIVITIES

1. Neuroscience

- Analysis of cerebellar input and output pathways
- Neuroinflammation and Neurodegeneration

- Connexin-mediated neuro-glia cross-talk
- 2. Development and characterization of advanced biotechnology**
 - Regenerative Medicine
 - Preclinical Imaging
- 3. From physiological phenotype to tumor phenotype**
 - Tumoral microenvironment
 - Advanced technologies for cancer treatment

RESEARCH FUNDS

Active grants

Tipology	Year	Ruolo
META-CONNECT - "Analisi integrata di immunometaboliti e pathway molecolari nell'omeostasi delle connessioni neurogliali", (PNRR) MISSIONE 4 NBFC SPOKE 6 - BAC ABISSI	2024	Scientific Manager
Anthem – "AdvaNced Technologies for Human-centrEd Medicine" PROJECT CODE: PNC0000003 Piano complementare PNRR linea 1a	2023	Scientific Manager Pilot 4.4–Spoke 4
BCT – Breast Cancer Therapy con radiosensibilizzanti in radioterapia convenzionale e protonterapia. FSC 2014/2020, Patto di sviluppo per la Regione Siciliana	2021	Scientific Manager - Unict
PON Research and Innovation 2014-2020. <i>BONE++</i> . Svil MicroNanotecn per Predit, Diagn, Terapia e Tratt Rigen delle Alteraz Patol Osso e Osteo-Articol". Codice identificativo ARS01_00693.	2020	Scientific Manager Unict

Completed grants (last 10 years)

Tipology	Year	Ruolo
PON "R&C" 2007-2013 - PON03PE_00216_1. Settore Salute dell'uomo/Scienze della Vita. <i>Drug delivery</i> : vehicles for sustainable innovation.	2020	Scientific Manager Biometec Dept, Unict
Research Contract – Freedom Waves srl. Titolo: Valutazione ed implementazione degli effetti di sonoporazione e rilascio dei farmaci in campo preclinico con il sistema prodotto dalla Freedom Waves e denominato Waver System.	2021	Scientific Manager Biometec Dept, Unict
PO FESR Sicilia 2014-2020. Azione 1.1.5. Title: <i>LiverSmartDrug</i> - Micro e nanosistemi innovativi per la cura efficace del Tumore al Fegato. Progetto N° 087219090463.	2020	Scientific Manager Biometec Dept, Unict
PRIN 2017 - 2017XKWWK9_004 <i>"PBCT, Proton Boron Capture Therapy"</i> .	2019	Scientific Manager Biometec Dept, Unict
PON Research and Innovation 2014-2020. "ADAS+", "Development of advanced technologies and systems for car safety through Sustainable Mobility Sector platforms" Leader: STMicronics.	2018	Scientific Manager Biometec Dept, Unict
PO FESR Sicilia 2014-2020. Action 1.1.5. Title: DiOncoGen Diagnostica Innovativa. D.D.G. n. 3313/5S del 06/11/2019. Capofila: Istituto Oncologico del Mediterraneo SPA.	2017	Scientific Manager Biometec Dept, Unict
Research Contract - FinCeramica Faenza SpA. Title of the Research: Characterization of innovative biomaterials for osteo-chondral regeneration. Duration 10 months.	2017	Scientific Manager

Research Contract - Bionap Srl. Title of the Research: In vitro evaluation of natural Mediterranean substances to assist osteo-cartilage regeneration.	2017	Scientific Manager
Research Contract - Etna Biotech Srl. Title of the Research: Valuation of bioactive molecules to be used as immunostimulants and immunomodulators in vaccine candidates.	2015	Scientific Manager

EDITORIAL ACTIVITIES

Invited Guest Editor and Editorial board

Invited Guest editor:

- International Journal of Molecular Sciences". Special Issue "Connexins Multifaceted Aspects in homeostasis and disease". Nunzio Vicario & Rosalba Parenti.
 - "Disgnostics" Special Issue "Immunomarkers and Molecular Markers in the Diagnosis of Malignant Tumors". Gaetano Magro, Paolo Vigneri & Rosalba Parenti.
 - "International Journal of Molecular Sciences". Special Issue "Neuroglial Cross-talk in Neuroprotection and Plasticity". Nunzio Vicario & Rosalba Parenti
 - "Acta Histochemica" – Elsevier. Special Issue "Immunomarkers in human developing and pediatric neoplastic tissues" Gaetano Magro, Giuseppe Musumeci & Rosalba Parenti.
- Editorial board: Frontiers Physiology; Oxidative Medicine and Cellular Longevity; Mediterranean Journal of Biosciences; Current Gene Therapy; International Journal of Pediatric & Neonatal Care; Experimental and Therapeutic Medicine.

MEETING AND CONGRESS

Chairman - Organizer

- 2024 Local Organising Committee "17th Annual Meeting of Young Researchers in Physiology (YRP2024), May 22-24, 2024, Museo Diocesano, Catania
- 2022 ExpoLab "L'innovazione delle Biotecnologie nella Ricerca Scientifica", 21-23 Settembre 2022, Torre Biologica, Università di Catania.
- 2021: Meeting "Novel Translational Approaches in hematological malignancies: from bench to bedside", 05-06 novembre 2021, Torre Biologica Ferdinando Latteri, Catania.
- 2020: Co-Organizer Meeting "In vivo modelling of hematological malignancies: from bench to bedside", 31 gennaio-1 febbraio 2020, Torre Biologica Ferdinando Latteri, Catania.
- 2019: Co-organizer Meeting "Imaging: new frontiers from Preclinical studies to Clinical applications", 10 Maggio 2019, Aula Magna Rettorato, Palazzo Centrale - UNICT.
- 2019: Co-organizer Course "Biostatistics methods for clinical and basic research" SIS, 5-8/3/2019, Torre Biologica Ferdinando Latteri, Catania.
- 2018: Chairman Meeting "Imaging techniques in the cellular, tissue and preclinical sector", 22 marzo 2018, Torre Biologica Ferdinando Latteri, Catania.
- 2018: Co-organizer Meeting "Preclinical Research: objectives, needs and current legislation" 19-20 dicembre 2018, Torre Biologica Ferdinando Latteri Catania.
- 2018: Chairman Meeting Section "Bioingegneria e Biomateriali" V Congresso Nazionale della SIMCRI – 25-27/10/2018, Hotel Capotaormina – Taormina.
- 2018: Co-organizer Workshop "Experimental Microsurgery Course", 9-11/10/2018, Torre Biologica Ferdinando Latteri, Catania.
- 2018: Chairman Meeting Section "New Materials and Nanotechnologies for Innovative therapeutic Approaches" Convegno Nanoinnovation 11-14 Settembre 2018, Università La Sapienza, Roma.
- 2018: Co-organizer Meeting "ZF-MED: Zebrafish and other aquatic models in mediterranean labs" 12 Giugno 2018, Torre Biologica Ferdinando Latteri, Catania.
- 2016: Co-organizer 67° National Congress of the Società Italiana di Fisiologia – SIF. 21-23/9/2016, Monastero dei Benedettini, Catania.
- 2016: Chairman Meeting Section "The Animal Model and the Preclinical Imaging". Smart Science. L'innovazione nelle biotecnologie tra ricerca e diagnostica. 25-26/2/2016, Hotel Nettuno, Catania
- 2015: Chairman Session "Toward a translational medicine of cognitive disorders - Computation as a driver of translational medicine" - 5th Edition of the International School of Functional Genomics- September 28th-30th, 2015 - Sheraton, Catania.

SCIENTIFIC SOCIETIES, RESEARCH CENTERS

Member of the Società Italiana Fisiologia (SIF)
Member of the Associazione Biologia Cellulare e Differenziamento (ABCD)
Association to INFN – LNS
Assciation to CNR- IBFM
Coordinator of Scientific Council of the Center for Advanced Preclinical in vivo Research
Deputy Director of the Research Center "Imaging molecolare, preclinico e traslazionale (IMPRonTE)", University of Catania
Member of the following Research Centers of the University of Catania: a) "Prevenzione, Diagnosi e Cura dei Tumori (C.R.S. Pre.Di.C.T.)"; "Diagnosi e Terapia delle Malattie Rare"; "Tecniche e Chirurgie Mini-invasive"; "Attività motorie" – CRAM; "Centro di Ricerca per la Riduzione del Danno da Fumo" - CoEHAR

PERSONAL SKILLS AND COMPETENCES

LANGUAGE

ITALIAN

OTHER LANGUAGE

ENGLISH

- *Reading ability*
- *Writing ability*
- *Oral expression ability*

EXCELLENT
EXCELLENT
GOOD

ADDITIONAL INFORMATION

STATEMENT OF RESEARCH INTERESTS

As Head of the Cellular and Molecular Physiology Laboratory at the Physiology Section of the Department of Biomedical and Biotechnological Sciences, she has extensive experience in the following functions: i) planning and coordination of research activities; ii) definition of objectives and development roadmap. In fact, she coordinates a research team that includes numerous researchers and post-docs engaged in different research fields. Experience and competence in the field of neuroinflammation and tumoral microenviroment, including the complex neuro-glial and intercellular cross-talk, the molecular players and the pathways involved, as well as in different preclinical approaches both in vitro, in vivo and ex-vivo, represent the strong point of her scientific production.

PUBLICATIONS AND METRICS

- Total number of publications in peer-review journals (Scopus): **158 papers**
 - Total number of citations (Scopus): **3.997 citations**
 - H-index (Scopus): **34 h-index**
- Source: Scopus 12/02/2025. <https://www.scopus.com/authid/detail.uri?authorId=57792357200>

Catania, 12 febbraio 2025