PERSONAL INFORMATION

Andrea Gerbino



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M | 03/08/1973 | Italian

Enterprise	University	EPR
☐ Management Level	Full professor	Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
Mid-Management Level	⊠ Associate Professor	Level III Researcher and Technologist
Employee / worker level	Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	□ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE	
December 2023-present	Associate Professor in Physiology; Department of Biosciences, Biotechnologies and Environment of the University of Bari, Italy.
December 2020-December 2023	Assistant Professor (RTD b) in Physiology; Department of Biosciences, Biotechnologies and Biopharmaceutics of the University of Bari, Italy. Analysis of Lamin A/C interaction with cardiac ion channels as new potential determinant of cardiomyopathies. Dysregulated myocardial inflammatory responses as innovative diagnostic, prognostic and therapeutic tool against Lamin A/C cardiomyopathies.
November 2019-present	Member of the Board of the PhD Program in Cellular and Molecular Physiology, Department of Biosciences, Biotechnology and Biopaharmaceutics of the University of Bari Aldo Moro,
November 2019-December 2020	Researcher in Pathophysiology; Institute of Biomembranes, Bioenergetics and Molecular Biotechnologies of the National Research Council of Italy, Italy. Understanding the role of Lamin A/C Gene Mutations in the Signaling Defects Leading to Cardiomyopathies
November 2019-present	Elected Member of the Directive Board of the Italian Society of Cardiovascular Research (SIRC)
February 2018-November 2019	Assistant Professor (RTD a) in Physiology; Department of Biosciences, Biotechnologies and Biopharmaceutics of the University of Bari, Italy. Evaluation of the functional role of the nuclear lamina in the physiology of cardiomyocytes. Functional characterization of LMNA mutations associated with hereditary cardiomyopathy.
April 2016 to date	Biomedical Research Coordinator for Apulia, Network Italiano Laminiopatie, Section: Dilated Cardiomyopathy.
April 2016-January 2018	Research fellow in physiology; Department of Biosciences, Biotechnologies and Biopharmaceutics of the University of Bari, Italy. Apoptosis, Endoplasmic Reticulum-Stress and the Ca2+ Signaling in the onset of dilated cardiomyopathy with conduction defects
July 2013-July 2015	Research fellow in physiology; Department of Biosciences, Biotechnologies and Biopharmaceutics of the University of Bari, Italy. Evaluation of Cholesterol-lowering therapies for the treatment of nephrogenic diabetes insipidus
June 2005-July 2013	Research fellow in physiology; Department of Physiology of the University of Bari, Italy. Intracellular and extracellular signaling mechanisms involved in cardiac hypertrophy in vitro. Role of the extracellular calcium (CaR) sensing receptor. Extracellular Ca2+ changes in response to mediated calcium agonists: measurements in the lumen of gastric glands in situ
March 2004 to May 2005	Post-doctoral fellow; Department of Surgery, Harvard Medical School/Brigham and Women's Hospital and V.A. Boston Healthcare System, Boston, MA, USA. "Dual-mentored fellowship from Harvard Medical School & Brigham and Women's Hospital Boston" entitled "Mechanisms Underlying the Lack of Desensitization of the CaR"
June 2002-April 2002 June 2001-October 2001	Research fellow; Department of Surgery, Harvard Medical School/Brigham and Women's Hospital and the V.A. Boston Healthcare System, Boston, MA, USA. NIH RO1 DK44571 "Role of divalent cations in the physiology of parietal cells of the gastric mucosa"
EDUCATION AND TRAINING	

April 2005	PhD in Physiology defending a thesis entitled "Extracellular and intracellular calcium modulation of physiological functions", Department of General Physiology of the University of Bari Aldo Moro, Italy.	
November 2001-November 2004	PhD course in "Cellular and Molecular Technologies in Physiology" at the Department of General Physiology of the University of Bari Aldo Moro, Italy.	
25 October 2000	Master's degree in Biological Sciences- Pathophysiological section, University of Bari Aldo Moro, Italy.	
WORK ACTIVITIES		
Awards	<u>November 2023</u> ; National Scientific Qualification as FULL Professor in Physiology; <u>July 2022</u> ; Elected Member of the Directive Board of the Italian Society of Cardiovascular Research (SIRC), serving as Secretary; <u>November 2019</u> ; Elected Member of the Directive Board of the Italian Society of Cardiovascular Research (SIRC), <u>September 2019</u> ; National Scientific Qualification as ASSOCIATE Professor in Physiology; <u>April 2016</u> Biomedical Research Coordinator for Apulia, Network Italiano Laminiopatie, Section: Dilated Cardiomyopathy; <u>April 2015</u> ; Cover for Biology of the Cell, DOI: 10.1111/boc.201400069; <u>April 2005</u> ; Travel Scholarships Winner-Termination of cAMP signals by Ca2+ and Goi via extracellular Ca2+ sensors-14th International Symposum on Calcium and Calcium Binding Protein in Health and Disease, Banff, Alberta, Canada. <u>March 2004</u> "Dual-mentored fellowship from Harvard Medical School & Brigham and Women's Hospital Boston"-Boston Healthcare System, Boston and West Roxbury, MA, USA	
Teaching Activity	<u>2019 to date</u> , General Physiology with elements of human anatomy (8 CFU, BIO/09), Bachelor of Science in Herbal Sciences and Technologies and Health Products, University of Bari, Italy; <u>2015-2018</u> , General Physiology with elements of human anatomy (8 CFU, BIO/09), Bachelor of Science in Herbal Sciences and Technologies and Health Products, University of Bari, Italy; <u>2013-2015</u> , General Physiology (10 CFU, BIO/09), Bachelor of Science in Herbal Technologies, University of Bari, Italy; <u>2011-2013</u> , General Physiology (10 CFU, BIO/09), Bachelor of Science in Pharmacy, University of Bari, Italy, <u>2010-2011</u> , Environmental Physiology (10 CFU, BIO/09), Bachelor of Science in Pharmacy, University of Bari, Italy.	
Editorial activity	https://publons.com/author/1454780/andrea-gerbino#profile; https://loop.frontiersin.org/people/499642/editorial	
Invited presentations (most recent) Grants	 <u>May 22nd 2023</u>, Laminopatie e Cuore, dal paziente al meccanismo fisiopatologico; Corso Accreditato di "Aggiornamenti di Fisiologia Umana", Docente Responsabile Prof. Roberto BOTTINELLI, Università di Pavia, Almo Collegio Borromeo, Pavia, Italy. <u>November 6th, 2019</u>; The functional expression of the Lamin A/C mutant Q517X in HL1 cardiomyocytes causes nuclear and cytoskeleton remodelling with reduction in spontaneous action potentials frequency. XXII meeting of the "Italian Society of Cardiovascular research (SIRC)", Imola, Italy. <u>November 13th</u>, <u>2018</u>; Cardiomyopathy caused by lamin A/C gene mutations: why the functional characterization at cellular level is crucial? COST Action CA15214 EuroCellNet WG4 Meeting, Intranuclear Interactions of Lamins and European Lamin Working Group, A joint meeting with the Italian Network for Laminopathies Meeting, Bologna, Italy; <u>September 20th</u>, 2018; Cardiomyopathy caused by lamin A/C gene mutations: why is the functional characterization at cellular level so crucial? Symposium • New frontiers in cardiovascular physiology and protection. SIRC patronage. 69th SIF National Congress, Italian Physiological Society, Firenze, Italy. PON "Impresa e competitività" 2014-20 FESR (MISE); H-STEEP-human stamina cell Extraction and expansion process "Kidney in a box", PON Programma Operativo Nazionale 2014-2020-Dottorati innovativi a caratterizzazione Industriale "Dual-mentored fellowship from Harvard Medical School & Brigham and Women's Hospital Boston"-Boston Healthcare System, Boston and West Roxbury, MA, USA 	
ADDITIONAL INFORMATION		
Publications	total number of publications in peer-review journals 56 total number of citations 1605 H index 24 <u>https://pubmed.ncbi.nlm.nih.gov/?term=andrea+gerbino&sort=pubdate&size=100</u>	
	Selected papers:	
	 <u>Andrea Gerbino</u>, Grazia Tamma, Fiorenzo Conti, Giovanna Valenti, 72nd annual meeting of the Italian society of physiology: new perspectives in physiological research, Frontiers in Physiology 15, 1403715, 2024 Francesco Moccia, Alessandra Fiorio Pla, Dmitry Lim, Francesco Lodola, <u>Andrea Gerbino</u>, Intracellular Ca2+ signalling: unexpected new roles for the usual suspect, Frontiers in Physiology 14, 1210085, 2023, Simona Ida Scorza, Serena Milano, Ilenia Saponara, Maira Certini, Roberta De Zio, Maria Grazia Mola, Giuseppe Procino, Monica Carmosino, Francesco Moccia, Maria Svelto, Andrea Gerbino, TRPML1-Induced Lysosomal Ca2+ Signals Activate AQP2 Translocation and Water Flux in Renal Collecting Duct Cells, International Journal of Molecular Sciences 24 (2), 1647, 2023 Roberta De Zio, Giusy Pietrafesa, Serena Milano, Giuseppe Procino, Manuela Bramerio, Martino Pepe, Cinzia Forleo, Stefano Favale, Maria Svelto, <u>Andrea Gerbino*</u>, Monica Carmosino*; Role of Nuclear Lamin A/C in the Regulation of Nav1.5 Channel and Microtubules: Lesson From the Pathogenic Lamin A/C Variant Q517X; Front Cell Dev Biol 2022 Jun 29;10:918760. doi: 10.3389/fcell.2022.918760. eCollection 2022. <u>Andrea Gerbino</u>, Cinzia Forleo, Serena Milano, Francesca Piccapane, Giuseppe Procino, Martino Pepe, Mara Piccolo, Piero Guida, Nicoletta Resta, Stefano Favale, Maria Svelto, Monica Carmosino; Pro-inflammatory cytokines as emerging molecular determinants in cardiolaminopathies; <u>J Cell Mol Med</u>. 2021; 25:10902-10915; 	

- <u>Andrea Gerbino</u>, Roberta De Zio, Daniela Russo, Luigi Milella, Serena Milano, Giuseppe Procino, Michael Pusch, Maria Svelto, Monica Carmosino 5 6. - Role of PKC in the Regulation of the Human Kidney Chloride Channel CIC-Ka – <u>Scientific Reports</u>, 2020 Jun 24;10(1):10268.
- Roberta De Zio*, <u>Andrea Gerbino</u>*, Cinzia Forleo, Martino Pepe, Serena Milano, Stefano Favale, Giuseppe Procino, Maria Svelto and Monica Carmosino. - Functional study of a KCNH2 mutant: novel insights on the pathogenesis of the LQT2 syndrome – <u>Journal of Cellular and Molecular Medicine</u>, 2019, 10.1111/jcmm.14521
- <u>Andrea Gerbino</u>, Giuseppe Procino, Maria Svelto, Monica Carmosino Role of Lamin A/C Gene Mutations in the Signaling Defects Leading to Cardiomyopathies - <u>Front Physiol</u>., 2018, 9:1356. doi: 10.3389/fphys.2018.01356
- <u>Andrea Gerbino</u>, Irene Bottillo, Serena Milano, Martina Lipari, Roberta De Zio, Silvia Morlino, Maria Grazia Mola, Giuseppe Procino, Federica Re, Elisabetta Zachara, Paola Grammatico, Maria Svelto and Monica Carmosino – Functional characterization of a novel truncating mutation in Lamin A/C gene in a family with a severe cardiomyopathy with conduction defects- <u>Cellular Physiology and Biochemistry</u>, 2017, 44(4):1559-1577.
- Monica Carmosino*, <u>Andrea Gerbino</u>*, Giorgia Schena, Giuseppe Procino, Rocchina Miglionico, Cinzia Forleo, Stefano Favale and Maria Svelto-The expression of Lamin A mutant R321X leads to endoplasmic reticulum stress with aberrant Ca2+ handling -<u>Journal of Cellular and Molecular Medicine</u>, 2016, 20(11):2194-2207, 10.1111/jcmm.12926.
- <u>Andrea Gerbino</u>, Isabella Maiellaro, Claudia Carmone, Rosa Caroppo, Lucantonio Debellis, Maria Barile, Giovanni Busco, Matilde Colella - Glucose increases extracellular [Ca2+] in rat insulinoma (INS-1E) pseudoislets as measured with Ca2+-sensitive microelectrodes - Cell Calcium, 2012, 51(5):393-401, corresponding author.
- <u>Andrea Gerbino</u>, Marianna Ranieri, Stefania Lupo, Rosa Caroppo, Lucantonio Debellis, Isabella Maiellaro, Mariano Caratozzolo, Francesco Lopez, Matilde Colella - Ca2+-dependent K+ efflux regulates deoxycholateinduced apoptosis of BHK-21 and Caco-2 cells -<u>Gastroenterology</u>, 2009, 137(3):955-64, 964.e1-2..
- <u>Andrea Gerbino</u>, Warren Ruder, Silvana Curci, Tullio Pozzan, Manuela Zaccolo, Aldebaran M. Hofer Termination of cAMP signals by Ca2+ and Gαi via extracellular Ca2+ sensors: link to intracellular Ca2+ oscillations - <u>Journal of</u> <u>Cell Biology</u>, 2005, 171(2): 303–312.
- Andrea Gerbino, Aldebaran Hofer, Breda McKay, Bonnie Lau, David Soybel; Divalent cations regulate acidity within the lumen and tubulovesicle compartment of gastric parietal cells; <u>Gastroenterology</u>, 2004, 126(1): 182-195.

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