

FRANCESCO MOCCIA - CURRICULUM VITAE

GENERAL INFORMATION

First Name and Family Name: Francesco Moccia
Place and Date of Birth: Foggia, 1972, July 29th
Place of Residence: via Bramante 14, 27100 Pavia, Italy
Email: francesco.moccia@unipv.it

EDUCATION AND QUALIFICATION

1990-1995: Bachelor in Biological Sciences, magna cum laude, awarded from the University of Pavia on 1995, July 27th.
1996-2000: PhD in Physiology awarded from the University of Turin on 2001, April 13th. Title of the Thesis: "[Ca²⁺]_i homeostasis and membrane cation currents in endothelial cells from rat cardiac microcirculation"
2000/10/01-2001/10/30: Postdoctoral Fellow at the Laboratory of Cardiac Cellular Research, Centre for Experimental Surgery and Anaesthesiology, Katholieke Universiteit of Leuven, Leuven, Belgium.
2001/11/6-2003/06/30: "Assegno di Ricerca" at the Laboratory of Cell Biology, Zoological Station "Anton Dohrn", Naples, Italy.
2003/07/01-2006/06/30: Junior Staff Scientist at the Laboratory of Cell Signalling, Zoological Station "Anton Dohrn", Naples, Italy.
2006/09/21-2007/04/30: Postdoctoral Fellow at the Department of Structural and Functional Biology, "Federico II" University, Naples, Italy.
2007/08/21-2007/12/21: Postdoctoral Fellow at the Department of Physiological-Pharmacological Cellular-Molecular Sciences, University of Pavia, Italy.
2008/01/01-2008/11/30: Postdoctoral Fellow at the Department of Structural and Functional Biology, "Federico II" University, Naples, Italy.
2008/12/29-2020/09/30: Assistant Professor of Physiology at the Department of Physiology, University of Pavia, Italy.
2020/09/30-Today: Associate Professor of Physiology at the Department of Physiology, University of Pavia, Italy.

ABROAD EXPERIENCES

1997/09/01-1997/10/30: Visiting Scientist at the Laboratory of Physiology, Katholieke Universiteit of Leuven, Leuven, Belgium.
1998/09/01-1999/09/30: Third Year of PhD Programme spent at the Department of Physiology and Pharmacology, Queensland University, Brisbane, Australia.
2019-2020: Visiting Professor at Department of Biology/College of Science, Salahaddin University, Erbil, Iraq.

TEACHING

University Courses

2006-2008: Appointed Professor of Applied Biology (36 hours) at the School of Nursing, Faculty of Medicine and Surgery, University of Molise, Termoli (Cb), Italy.
2007-2008: Appointed Professor of Applied Biology (36 hours) at the School of Therapy of Psychiatric Rehabilitation, Faculty of Medicine and Surgery, University of Molise, Isernia, Italy.
2007-2008: Appointed Professor of Physiology (36 hours) at the School of Nursing, Faculty of Medicine and Surgery, University of Molise, Termoli (Cb), Italy.

2009-now: Cellular and Molecular Physiology, Master's Degree in Experimental and Applied Biology, University of Pavia, Pavia, Italy.

2020-now: Applied Physiology, Master's Degree in Bioengineering, University of Pavia, Pavia, Italy.

2021-now: General Physiology-Module of Cardiovascular Physiology, Bachelor Degree in Biological Sciences, University of Pavia, Pavia, Italy.

PhD courses

Moccia F. (2015) Distinct remodelling of the Ca²⁺ toolkit in endothelial progenitor cells under different pathological conditions. Workshop "Ion channels and disease", PhD Program "Complex Systems for Life Science", Department of Life Sciences and Systems Biology, Turin, Italy.

Moccia F. (2015) Cancer specific Ca²⁺ signalling toolkit in human endothelial progenitor cells (EPCs). Dipartimento di Scienze della Vita e Biologia dei Sistemi, Department of Life Sciences and Systems Biology, Turin, Italy.

Moccia F. (2018). The role of intracellular Ca²⁺ signalling in tumor vascularization: Focus on endothelial colony forming cells. Topic: Tumor vascularization and ion channels, PhD Program "Complex Systems for Life Science", MBC, University of Turin, Turin, Italy, 6th March.

Moccia F. (2018). La versatilità dello ione calcio, ovvero come il profilo spazio-temporale dei segnali di calcio intracellulari codifica i messaggi di vita o di morte. PhD Program in Translational Medicine and Clinics. Department of Medicine and Health Sciences "V. Tiberio", University of Molise, Campobasso, Italy.

Moccia F. (2018). I segnali di calcio nelle cellule progenitrici endoteliali: una spada a doppio taglio per le malattie ischemiche e oncologiche. PhD Program in Translational Medicine and Clinics. Department of Medicine and Health Sciences "V. Tiberio", University of Molise, Campobasso, Italia.

Moccia F. (2021). Genesi e decodificazione dei segnali di calcio. PhD Program in Life Sciences, Department of Biology, Ecology and Earth Sciences (Di.B.E.S.T.), University of Calabria, Arcavacata di Rende (Cs), Italy.

Italian School of Physiology

Moccia F. (2015) Basic insights in Ca²⁺ imaging. School of "Molecular and Cellular Biophysics of Excitable Cells", 29th June - 2nd July, Pavia, Italy.

Moccia F. (2021) Imaging and 2-PM. School of "Neuronal Biophysics: From experiments to tools", 5th-7th July, Pavia, Italy.

EDITORIAL ACTIVITY

- Associate Editor of Frontiers in Cellular Neuroscience - Cellular Neuroscience since May 2015;
- Associate Editor of Frontiers in Physiology - Vascular Physiology since January 2019
- Guest Editor for a Special Issue of Biomed Research International – Angiogenesis and Vasculogenesis in Health and Disease (2015)
- Guest Editor for the Special Issue "Calcium Signaling in Human Health and Diseases" for International Journal of Molecular Sciences (2017)

- Guest Editor for the Special Issue "Calcium Signaling in Human Health and Diseases 2.0" for International Journal of Molecular Sciences (2018-2019)
- Guest Editor for the Special Issue "Calcium Signaling in Human Health and Diseases 3.0" for International Journal of Molecular Sciences (2020-2022)
- Guest Editor for the Special Issue "Endothelial Progenitor Cells in Health and Disease" for International Journal of Molecular Sciences (2019)
- Guest Editor for the Special Issue "Advances and Current Challenges in Calcium Signaling within the Cardiovascular System" for Frontiers in Physiology (2019);
- Ad hoc reviewer for many international journals, including Cellular Physiology and Biochemistry, Frontiers in Cellular Neuroscience, Frontiers in Physiology, Journal of Cellular and Molecular Medicine, Cardiovascular Research, and Journal of Cellular Physiology.

REFEREE FOR NATIONAL AND INTERNATIONAL FUNDING AGENCIES

- Reviewer for the Auckland Medical Research Foundation, New Zealand (2013)
- Reviewer for the Sparks Charity, UK (2015)
- Reviewer for the Austrian Academy of Sciences, Austria (2015)
- Reviewer for the BBSRC, UK (2015, 2016, 2019, and 2020)
- Reviewer for the University of Padova (2016)
- Reviewer for the University of Florence (2020)
- Reviewer for the Medical Research Council (2020)

INSTITUTIONAL AND ORGANIZATIONAL ACTIVITIES

- Scientific Director of the Laboratory of Calcium Signalling, Laboratory of General Physiology, Department of Biology and Biotechnology "L. Spallanzani", University of Pavia, Pavia, Italy;
- Coordinator of the Master's Degree in Experimental and Applied Biology, University of Pavia, Pavia, Italy;
- Board Member of the Italian Society of Cardiovascular Research (SIRC) since January 2011 to December 2016 and from 2021 to 2023;
- Secretary of the Italian Society of Cardiovascular Research (SIRC) since January 2014 to December 2016 and VicePresident from 2021 to 2023;
- Organization of the four SIRC Workshops "New Roads in Cardiovascular Research", held in Milano on 2012 November 23th-24th, in Pisa on 2014 October 13th, in Genova, on 2016 June 18th, and in Rome on 2018 October 8th;
- Organization of the 18th-23th National SIRC Meeting, Imola (Bo) (2011-2021)
- PhD Opponent in many PhD Programs both in Italy (e.g., Unito and Unical) and abroad (e.g., University of Lille)
- Board of the Calcium Day, Novara, 2018, 2 July (www.calciumday.org).

TALKS

More than 20 invited lectures at meetings or international institutes (most recent):

February 20, 2019: Endothelial Ca²⁺ signaling for therapeutic angiogenesis: Dream or reality? Centro Cardiologico Monzino, Milano.

January 30, 2020: Endothelial Ca²⁺ signaling to stimulate in vitro angiogenesis: fact or fiction? MBC, Università degli Studi di Torino, Torino.

March 17, 2021: Shedding light on angiogenesis: the triggering role of reactive oxygen species in conjugated polymers-mediated optical excitation of Ca²⁺ signals in human ECFCs.

Commemorative Doctorate Day in honor of Prof. Gianni Losano, Turin, Italy.

March 16, 2022: The bright side of endothelial signalling: geneless optical stimulation of TRPV1 as alternative strategy to induce pro-angiogenic Ca²⁺ signals. Web meeting: Ischemia-reperfusion injury: What's new?

April 7, 2022: TRPV1 and Store-Operated Ca²⁺ entry: two interacting partners to stimulate therapeutic angiogenesis in cardiovascular disorders. Department of Pharmaceutical Sciences, Università del Piemonte Orientale "Amedeo Avogadro", Novara, Italy.

GRANTS

- Corrente di Ricerca granted by the IRCCS Foundation Policlinico San Matteo, Pavia: "Molecular and functional characterization of Tumor infiltrating lymphocytes (TILs) and tumor cells for development of adoptive immunotherapy approaches in patients affected by tumors of the gastrointestinal tract", code: 08059819, duration 36 months starting 2019, July 1st and expiring 2022, July 22th. Role: Unit Responsible. 206.000 euros.
- H2020 ERC LINCE (GA Nr. 803621) – Coordinator: Dr. Maria Rosa Antognazza, Italian Institut of Technology, Milan. Starting date: 2019, March 1st, End: 2024, February 2th. Role: Third Party. 30.000 euros.
- Future Emerging Technologies (FET) Open – European Commission: Proposal 828984 - LION-HEARTED: 305.000 euros. Starting date: 2019, May 1st, End: 2023, April 30th. Role: Unit Responsible.

BIBLIOMETRIC INDICES

141 publications on peer-reviewed international journals (Scopus)

Scopus (as of May 30, 2022)

H-index 40

Citations 4059

Google Scholar

H-index 45

Citations 5169