CURRICULUM VITAE

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Current position: Researcher (RTD-B, SSD: BIO/09), Department of Bioscience, Biotechnologies and Biopharmaceutics, University of Bari "Aldo Moro".

Scientific Education and Affiliation to Scientific Research Center

- From February 2021, affiliated researcher to the Center for Synaptic Neuroscience and Technology, Istituto Italiano di Tecnologia (IIT), Genova. Smart Materials and Neurosciences.
- From November 2019 to October 2020. Visiting Scientist in the Center for Synaptic Neuroscience and Technology, Istituto Italiano di Tecnologia (IIT), Genova. Smart Materials and Neurosciences.
- From December 2013 to December 2018 researcher (RTD-A, SSD: BIO/09) in the Department of Bioscience, Biotechnologies and Biopharmaceutics (DBBB), University of Bari "Aldo Moro".
- From December 2012 to December 2013. Research Fellowship as expert in cell engineering and cell biophysics (PONa3_00395). DBBB, University of Bari "Aldo Moro".
- October-November 2010. Research experience in the laboratory of Prof. Tonghui Ma, Central Research Laboratory, Jilin University Second Hospital, Bethune, Changchun 130041, China.
- June 2010 to May 2011. Research Fellowship at the DBBB, University of Bari "Aldo Moro".
- June 2008 to April 2010. Post-Doc (Strategic Regional project " Neurobiotech") and in Italy-China Bilateral Project, University of Bari "Aldo Moro".

Education

- 2004-2007: PhD in Biochemistry and Molecular Biology, Department of Biochemistry and Molecular Biology, University of Bari (title obtained April, 2008).
- 2004: Master Degree in Biological Sciences (110/110 cum laude) and best graduate of the academic year in the Faculty of Mathematical, Physical and Natural Sciences, University of Bari.

Italian National Scientific Qualification (ASN)

2017: National Scientific Qualification for physiology (Fascia II, art. 16, comma 1, Legge 240/10).

Affiliation to Scientific Societies

Italian Physiological Society (SIF).
European Association for Vision and Eye Research (EVER).

Activity in Ph.D program

- 2019: Invited speaker Ph.D School University of Pisa
- 2019: Invited speaker IIT Synaptic Neuroscience and Technology (NSYN)

- From 2018: Member of coordinator team of Ph.D school in Functional and Applied Genomic and Proteomic, Department of Bioscience, Biotechnologies and Biopharmaceutics and Center of Excellence in Comparative Genomics (CEGBA), University of Bari "Aldo Moro".
- 2018: External evaluator of PhD thesis in “Experimental and Regenerative Medicine” XXX cicle, University of Foggia.

Scientific coordinator of research project

From December 2015-November 2018 coordinator of research project “La Neuromielite Ottica: dalla ricerca di base alla medicina traslazionale”. Apulia Region code 5CU9HC5.

Research Activity in Financed Projects

- PON01_01297, P.O.N. RICERCA E COMPETITIVITA' 2007-2013 - Avviso n. 1/Ric. del 18/01/2010. Developing of high throughput screening methodologies.
- PON02_00576_3329762 (2007-2013). Developing of nanoparticles-based NMO diagnostic systems.
- Potenziamento Strutturale PONa3_00395 “BIOSCIENZE e SALUTE (B&H) UNIBA. Developing of Gated-STED, PALM-STORM, Flexa-Station and Stop-flow light scattering for the study of membrane protein.
- Grandi Progetti Strategici, Ministero degli Esteri 2010-2013
- Progetto Strategico Finanziato dalla Regione Puglia (PS124) (2008-2010). Developing of NMO diagnostic System in collaboration with Merck-Serono and ApuliaBiotech.

Scientific Awards

- 2019: SIF Prize 2019. The Physiological Society of Italy. Bologna.
- 2013: Bioeconomy Rome 2013 Award presso Accademia Nazionale dei Lincei, received by the Nobel Price in Medicine Tim Hunt. Consorzio CNCCS (Consiglio Nazionale delle Ricerche (CNR), Istituto Superiore di Sanità (ISS) e IRBM Science Park) , Roma, Italy;
- 2012: Neurobiology “Giuseppe Levi” 2012, Accademia Nazionale dei Lincei, Roma;
- 2010: Best Oral presentation Award in “Meeting of Young Researchers in Physiology” Santa Croce in Fossabanda (Pisa), Italy, Invited speaker;
- 2010: Cover page in “The Journal of Biological Chemistry” J Biol Chem. 2010 Feb 12;285(7):4562-9
- 2006: Italian Proteomic Association award in the Annual Meeting Congress “Proteomics: deciphering the phenotype”, Pisa, Italy;
- 2006: Biotechnology National Congress (CNB9) award;
- 2004: Best graduate of the Academic Year in the Faculty of Mathematical, Physical and Natural Sciences, University of Bari.

Organization of scientific event

Organizer Committee in:

- XXIII Scuola di Fisiologia e Biofisica. Bari, Italy 28-31 May 2019.
- Summer School SPYWATCH - Summer School "PhYsiology and Biophysics of Water and Ion Channels" › DR n. 3079 del 05.10.2017. Department of Bioscience, Biotechnologies and Biopharmaceutics, University of Bari "Aldo Moro".

Invited Speaker in International and National Congress

- European Association for Vision and Eye Research, EVER 2018 Congress. Nice, France, Oct. 4-6, 2018. Methylation-dependent control of HIF-1/VEGF axis in a mouse model of oxygen-induced retinopathy. Potential role of the glial water channel Aquaporin-4.
- The Italian Physiological Spociety Congress, 2017, Pavia.Methylation-dependent control of HIF-1/VEGF axis in Oxygen-Induced Retinopathy: beneficial effect of absence of Aquaporin-4.
- "Meeting of Young Researchers in Physiology" Santa Croce in Fossabanda (Pisa), Italy, 2010. Best Oral Presentation.
- ITPA Congress 2006, Pisa, Italy.

Editorial activities
2019-present: Review Editor in Frontiers in Bioengineering and Biotechnology – Nanobiotechnology.
Ad-hoc reviewer for International Union of Biochemistry and Molecular Biology, European Journal of Cell Biology, Ophthalmic Research, Metabolites (MDPI).

Technical Course

- 2019, 19-20 November. Correlative Microscopy in Life Sciences From CLEM to 3D and Cryo Correlative Workflows. Zeiss, c/o TIGEM Telethon Institute of Genetics and Medicine, Pozzuoli (NA).
- 2018, May 22-24. IFOM Milano, XII Corso teorico-pratico di Microscopia Confocale.
- 2014, Sep 8th to September 12th, BD FACSAriaTM III training course. At the BD Biosciences Headquarters in Erembodegem, Belgium.
- 2011, Apr 4-7th: Italian Physiological Society, School of Biophysics "New technologies for the study of the central nervous system", Genova, Department of Neuroscience and Brain Technologies, The Italian Institute of Technology, Genova.
- 2006, Nov 23th: Bari "Biotecnologie e medicina", Serono.
- 2006, Apr 10-11th: Torino "Tecniche di proteomica microbica", Italian Biotechnology Foundation
- 2006, Nov 17-18th : Trieste "Proteomix", Proteomic and Mass spectrometry. International Center for Genetic Engineering and Biotechnology (ICGEB).

Main fields of interest
Dr. Pisani, after a degree in Biological Sciences and a PhD in Biochemistry and Molecular Biology (2008) with a PhD thesis in proteomics, moved in the field of physiology and in particular in the molecular physiology of plasma membrane water channel proteins (Aquaporins, AQPs). The main field of interest of Dr. Pisani is the study of the physiological role of AQPs in the central nervous system (CNS). In particular he studies the physiological role of the glial water channel Aquaporin-4 (AQP4) in the CNS. The functional role of AQP4 in the water-ion homeostasis and in the blood-CNS barriers, the regulation of AQP4 expression and the regulation of the AQP4 structure-function relationship are his main specific topics.
The role of AQP4 in the retinal physiology has also been specifically investigated by Dr. Pisani. In this field he has contributed to the identification of a new role of AQP4 in the blood-retinal barrier and in retinal neovascularization, discovering a new molecular axis between AQP4, HIF-1 and

VEGF. In particular, he has contributed to characterize the mechanism by which HIF-1 controls VEGF expression in the mouse model of Oxygen-Induced-Retinopathy (OIR).
During his recent research experience in quality of Visiting Scientist in the Center for Synaptic Neuroscience and Technology Istituto Italiano di Tecnologia (IIT), Genova, he has studied the physiological role of the tunneling nanotube (TNT)-mediated cell-to-cell crosstalk in the CNS.

Teaching activity

- From 2019 titular of the course "Cellular and Tissue engineering" SSD BIO/09, Physiology. University of Bari "Aldo Moro".
- From 2019 titular of the course "Physiology", SSD BIO/09, Physiology. University of Bari "Aldo Moro".
- From 2014 to 2018 titular of the course "Cellular engineering and laboratory of cellular technologies" SSD BIO/09, Physiology. University of Bari "Aldo Moro".
- Scientific trainer in the project "AMIDERHA - Sistemi avanzati mini-invasivi di diagnosi e radioterapia" :PON02_00576_3329762 (2007-2013).
- Scientific trainer in the project "Virtualab: Sistemi Avanzati di Meccatronica Biomedicale di Diagnosi e Terapia Medica basati su Realtà Virtuale e Aumentata, Microelettronica, e su Laboratori robotizzati ad elevato throughput". PON01_01297, P.O.N. RICERCA E COMPETITIVITA' 2007-2013 - Avviso n. 1/Ric. del 18/01/2010.
- Scientific trainer in the project PON Ricerca e Competitività 2007-2013 "Potenziamento Strutturale PONa3_00395 "BIOSCIENZE e SALUTE (B&H)"
- 2014, Nov 26th, Teaching activity in the "PONa3_00395 Bioscienze & Salute (B&H)", "Modelli animali e tecnologie cellulari per lo studio di proteine di membrana".

Publications:
https://www.scopus.com/authid/detail.uri?authorId=55458095800

Bibliometric indicators

Source	Total number of articles	H index	Total citations	Number of articles in Q1
SCOPUS	27*	16	589	23

*11 as first author or first equally contributing