



PERSONAL INFORMATION

Luisa Cigliano

Department of Biology

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Nationality: Italian

CURRENT POSITION

Associate Professor of Physiology
Dept of Biology, University of Naples Federico II scientific area: 05/D1 Physiology; SSD BIO/09.

ADDITIONAL RELEVANT POSITIONS and Teaching

-National Scientific qualification as full professor in the Italian higher education system, in the call 2021/2023 (Ministerial Decree n. 553/2021 and 589/2021) for the disciplinary field of 05/D1 - Physiology

-2006 to 2021: Full-time position as permanent researcher at Department of Biology, University of Naples Federico II - scientific area: 05/D1 Physiology.

-from 2008 to present: Professor of of Physiology, Degree course in Biology, University of Naples Federico II - scientific area: 05/D1 Physiology.

-from 2021 to date: Professor of of Cellular Neurophysiology for Master degree in Biological Science(class LM6)

-from 2011 to date: Professor of Applied Nutrition, Master degree in Biology (class LM6)

-Member of the Board teaching staff, Postgraduate Course in "Optimal Nutrition: theoretical and practical aspects"

RESEARCH FIELD

a) My research team and I investigate how dietary components (particularly sugars and lipids) affect whole body physiology and predispose to chronic metabolic diseases. The health of specific organs (particularly **brain**, gut, liver) was investigated, with a special focus on inflammation, cholesterol homeostasis, mitochondrial bioenergetic and redox homeostasis, insulin signaling, synaptic integrity. The results have been achieved using *in vitro* and *in vivo* experimental models of aging, obesity and metabolic syndrome.

b) In addition, we study the role played by different molecules, such as the neurotrophin (i.e. Brain Derived Neurotrophic Factor- BDNF), inflammatory molecules or the Apolipoprotein E (ApoE) on brain cholesterol homeostasis *in vitro* and *in vivo*

WORK EXPERIENCE

April 2021 - to date

Associate Professor in Physiology (S.S.D. BIO/09)
University of Naples Federico II

May 2006 - March 2021

Full-time position as permanent researcher at Department of Biology, University of Naples Federico II - Assistant Professor in Physiology (S.S.D. BIO/09)
University of Naples Federico II

March 2005 - April 2006

Post-Doctoral Research Scientist at the institute of "Biostructures and Bioimages (National Research Council - CNR, Naples)". Research program "Molecular targets in multiprotein complexes that transmit metabolic, proliferative and inflammatory signals"

2003 - 2005

PostDoctoral Research Scientist, Immunology Section
Deutsches Rheuma Forschungs Zentrum (DRFZ, Max Planck institute, Berlin, Germany) Research program: "Regulation of chemokines receptors during B-lymphocyte differentiation in plasma cells"

EDUCATION AND TRAINING

2000 - 2003

PhD in Physiology
University of Naples Federico II. Subject "*Relevance of Haptoglobin and oxidative stress in the removal of cholesterol from peripheral cells*".

1999

Degree in Biological Sciences, summa cum Laude, University of Naples Federico II

Administrative role and position responsibility

2019-2021 a) Consigliere eletto Consiglio Universitario Nazionale (CUN) area 05 - (Biological Sciences)
b) Secretary of Commission V “Legal status and recruitment policies” of Consiglio Universitario Nazionale (Italy)

2016 to date Member of the Professor’s Board of the PhD in Biology, University of Naples Federico II.

From 2021 - to date **Contact Person** for the University of Naples Federico II of the **AURORA Alliance RI WP3** (*Sharing research infrastructures and resources*), Research and Innovation for Societal Impact (H2020-IBA-SwafS-Support-2-2020 - Project ID 101035804)

2021- to date Head of the Quality Assurance Management Group (GRIE), master’s degree in Biological Science, University of Naples Federico II

2021- to date member of Commission for student Orientation, master’s degree in Biological Science, University of Naples Federico II

2018 -2022 Member of the Commission for Innovative Teaching, Degree in Biology, University of Naples Federico II.

2016-2018 Coordinator for the development of the web platform of the Department of Biology

Main projects

2009 - 2013 Call: Bando PROGRAMMA NEUROSCIENZE 2008/09- Ente finanziatore: Compagnia di San Paolo. Principal Investigator. Inflammation and neurodegeneration: identification of potential modulators of ApoE-mediated regulation of brain cholesterol and beta-amyloid homeostasis

2013 - 2018 Call: progetto FIRB project Futuro in ricerca 2012. Ministero dell’Istruzione, dell’Università e della Ricerca. RBF12QW4I_004. PI Unit Unina. Specific Task of the Unity: Uncovering the role of BDNF in cholesterol homeostasis in neuronal and glial cells and *in vivo* in animal models of metabolic syndrome

2007 - 2008: component of the team for research projects of Bioindustry Park del Canavese (Colleretto Giacosa, Ivrea -Torino), funded by I-TECHPLAT 1 (Docup 2000-2006, Misura 3.4 “Iniziative multiassiali di supporto all’attività economica”, Piedmont - Italy) on: a) “Immunosuppressive activity of haptoglobin” and b) “Effectors of apolipoprotein E in neurodegeneration”.

2022-2025 **PNRR:** “Partenariati estesi alle Università, ai centri di ricerca, alle aziende per il finanziamento di progetti di ricerca di base” - nell’ambito del Piano Nazionale di Ripresa e Resilienza, Missione 4 “Istruzione e ricerca”. Collaborazione scientifica al programma: **Research and innovation network on food and nutrition Sustainability, Safety and Security - Working ON Foods - ONFOODS Food quality and nutrition**

Honours and awards

2021 Scientific Award for the best Scientific Talk as invited speaker. 23rd ISANH International Conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants. Paris Redox October 13-15,2021 (<https://www.isanh.net/congress-news/791-scientific-awards-of-paris-redox-2021>)

2012 Cover of the Journal of Pharmacological and Experimental Therapeutics, March Vol 340, N.3

Presentations at conferences

Invited talks and/or selected speaker at different national and international conferences on oxidative stress, brain physiology and nutrition and related topics.

Recent Scientific organisations

- **2022** organizer of the symposium S56: “Understanding Brain Cholesterol homeostasis: from Basic Mechanisms to the Effects of Environmental and Nutritional factors” within the 8th Mediterranean Neuroscience Society (MNS) Conference 2022, Dubrovnik, (Croatia), 29 Maggio - 2 Giugno 2022 (<https://www.mns2022conference.org/conference-programme/>)
- **2022** organizer of the symposium: “Nutrients and non nutrients and their impact on organ metabolism - an old story with new endings” ,72nd National Congress of The Italian Society of Physiology Bari 14-16 Settembre 2022 (<https://sif2022.azuleon.org/programme>)

Managerial activities

2018 to date Member of the Task Force on Microbiome Studies, University of Naples Federico II
From 2022 to date Member of executive board inter-university Research Center on Bioactive Peptides (CIRPEB)

2018-2020 Scientific responsible of the research agreement between Bioindustry Park Company of the Canavese (Colleretto Giacosa, Torino) and the Department of Biology of the University of Naples Federico II, for the development of technological and innovative platforms for applications in specific fields of health and life sciences (in particular in the field of nutraceuticals, diagnostics, medical devices)

2016 to date Member of the Professor’s Board of the PhD in Biology, University of Naples Federico II.

2021 - 2024 Contact Person for the University of Naples Federico II of the AURORA Alliance RI WP3 (Sharing research infrastructures and resources), Research and Innovation for Societal Impact (H2020-IBA-SwafS-Support-2-2020 - Project ID 101035804)

Scientific Societies and
Research Center
Membership:

2008 to date Member of the Italian Society of Physiology (SIF)
2020 Member of the Mediterranean Neuroscience Society (MNS)
2018 to date Member of the Neapolitan Brain Group (NBG)
2007 to date Member of Research Centre on Bioactive Peptides (CIRPEB)

Editorial and Reviewer
Activity

2020 to date Review Editor for Frontiers in Cellular Neuroscience, Cellular Neurophysiology Section
2021 to date Editorial board member of the international Journal 'Nutrients',
impact factor 2021: 6.706, Q1

https://www.mdpi.com/journal/nutrients/sectioneditors/Nutrition_Metabolism

2021 to date Guest Editor of the Special Issue of Nutrients entitled: “The Impact of Nutrition on Brain Metabolism and Disease”

https://www.mdpi.com/journal/nutrients/special_issues/brain_metabolism

From 2007 to date Peer review activity for the Journals: Neurobiology of Learning and Memory, Neurobiology of Aging, Molecular Nutrition and Food Research, Cellular Physiology and Biochemistry, European Journal of Clinical Nutrition, Life Science, Oxidative medicine and cellular longevity, Cellular & Molecular Biology Letters, etc

2022 External Referee for the French National Research Agency (ANR) del progetto: Micro2Sweet Evaluation process of AAPG 2022 as a Scientific Expert for the scientific panel Recherche translationnelle en santé.

2020 Reviewer for projects “Leonardo Da Vinci 2020”.

2010 - 2012 External referee for funding assignment of research projects submitted to American Alzheimer’s Association.

2016 External referee for funding assignment of research projects submitted to University La Sapienza (year 2016)

Publications and main indexes

■ Total

number of publications in peer-review journals: 68

H-Index: 22 (Scopus), 26 (Google Scholar)

Scopus: <https://www2.scopus.com/authid/detail.uri?authorId=6602603198>Google Scholar Page: <https://scholar.google.com/citations?hl=it&user=5andb7QAAAAJ>

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Date 23/03/2023

Signature (holographic format)

