

**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** 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 Physiology, Degree course in Biology, University of Naples Federico II - scientific area: 05/D1 Physiology.  
- from 2021 to date: Professor 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)  
- Editor, *Nutrients* (MDPI), Section "Nutrition and Metabolism"  
-Member of the Board teaching staff, Postgraduate Course in "Optimal Nutrition: theoretical and practical aspects"

**RESEARCH FIELD** My research team and I have 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.

**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 - (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"

from 2003 to 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**

2023, March to date Consigliere Consiglio Universitario Nazionale (CUN) area 05 - Biological Sciences);  
rappresentante dei Professori associati

2019-2021 Consigliere eletto Consiglio Universitario Nazionale (CUN) area 05 - Biological Sciences);  
rappresentante dei ricercatori

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

2019-2021 Secretary of Commission V "Legal status and recruitment policies" of Consiglio Universitario Nazionale (Italy) - CUN area 05 - Biological Sciences)

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, 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

#### 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>)

#### 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: to study the role of BDNF in cholesterol homeostasis in neuronal and glial cells and *in vivo* in animal models of metabolic syndrome

**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 Contribution as Invited Talk.** 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**

**Memberships and managerial activities**

- **2018 to date** Member Task Force on Microbiome Studies, University of Naples Federico II
- **From March, 2022** 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:**

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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)

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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 16/05/2023

Signature (holographic format)

