

Curriculum Vitae

Flavia Fontanesi

February 6, 2024

HIGHER EDUCATION

- **Post-doctoral Fellow**
Department of Neurology. University of Miami (USA)
Mar. 2005 - Nov. 2008
- **Ph.D. in Biotechnology**
Department of Genetics, Anthropology and Evolution. School of Biology. University of Parma (Italy)
Feb. 2005
- **Laurea magistrale (*cum laude*) in Biological Sciences, major Molecular Biology**
Institute of Genetics. School of Biology. University of Parma (Italy)
Mar. 2001
The title was recognized as equivalent to Master of Science (M.S.) in USA

ACADEMIC POSITIONS

- **Assistant Professor, tenure earning**
Department of Biochemistry and Molecular Biology. University of Miami (USA)
Jun. 2020 to present
- **Research Assistant Professor**
Department of Biochemistry and Molecular Biology. University of Miami (USA)
Jul. 2013 to May 2020
- **Assistant Scientist**
Department of Neurology. University of Miami (USA)
Dec. 2008 to Jun. 2013

PUBLICATION AND PRESENTATION SUMMARY

- h-index 29 (Scopus), 34 (Google Scholar)
- Peer-reviewed research articles: 38
- Peer-reviewed reviews: 11
- Peer-reviewed book chapters: 9

My bibliography: <https://www.ncbi.nlm.nih.gov/myncbi/flavia.fontanesi.1/bibliography/public/>

- Book: 1
- Abstracts at international conferences: 50

- Invited presentations at national and international conferences: 15

FUNDING

- **Florida Department of Health - Bankhead-Coley Cancer Research Grant (22B12)**
Targeting mitochondrial protein synthesis to combat blood malignancies
2022 – 2025. Role: Co-PI
- **US Army Research Office (ARO) Research Grant (W911NF-21-1-0359)**
Assessing the properties of the mitochondrial respiratory chain organization by controlling the formation of supercomplexes
2021 – 2024. Role: PI
Supplement: US Army Educational Outreach Program (AEOP) 2023-2024
- **NIH/NIGMS MIRA (R35) Grant (R35GM118141-02)**
Mitochondrial biogenesis in health and disease
2016 – 2026. Role: Co-I
- **NIH/NIDDK RO1 Grant (2RO1DK104753-05)**
Cellular cholesterol and podocyte function in diabetic kidney disease
2019 – 2023. Role: Co-I
- **Department of Defense (DoD) Discovery Award (PR180598)**
A novel approach to establish a comprehensive atlas of human mitochondrial mRNA binding proteins
2019 – 2021. Role: PI
- **American Heart Association (AHA) Scientist Development Grant (14SDG20040003)**
Mitochondrial respirasome assembly in physiological and stress conditions associated with cardiovascular disease
2014 – 2019. Role: PI
- **Muscular Dystrophy Association (MDA) Development Grant (MDA 158547)**
Basis of cytochrome *c* oxidase defects in primary mitochondrial ATPase deficiency
2010 – 2012. Role: PI

AWARDS and HONORS

- Stanley J. Glaser Research Award, University of Miami. Aug. 2014.
- Telethon Foundation Postdoctoral Fellowship. Nov. 2006 – Oct. 2008.
- Postdoctoral Travel Award from University of Miami. Aug. 2007.
- Italian Institute of University and Research (MIUR) Predoctoral Fellowship. Jun. 2002 – May 2003
- Best Poster Award, SIMGBM (Italian Society of General Microbiology and Microbial Biotechnology). Sep. 2002.
- Italian Inter-University Foundation of Biotechnology (CIB) Fellowship. Oct. 2001.

TEACHING

Courses

- MBS 616 / BMB 616 – Basis of Mitochondrial Medicine. Biomedical Sciences and Biochemistry and Molecular Biology master and PhD programs. University of Miami.
Spring semester, 2021 to present.

- BMB 402 - Principals of Experimental Biochemistry and Molecular Biology. Biochemistry and Molecular Biology undergraduate program. University of Miami. Spring semester, 2014 to present.
- NEU 631 / BMB 631 - Special topic course: Mitochondrial Function and Dysfunction in Neurological Diseases. Neuroscience and Biochemistry and Molecular Biology graduate programs. University of Miami. Fall semester 2014.
- Genetics I Laboratory module. Biotechnology undergraduate program. University of Parma. Spring semester 2001.

Mentoring activity (since 2013)

- Graduate students: 4 (PhD in Biochemistry, Industrial biochemistry, MD/PhD)
- International graduate students (exchange programs): 2
- Medical students: 2
- Master students: 5 (MS in Biochemistry, Biomedical Sciences, Clinical and Translational Investigation)
- Undergraduate students: 19 (Biochemistry major)
- Graduate student committees: 10

EDITORIAL AND REVIEWER ACTIVITIES

- IUBMB Life: Associate editor, Jan. 2024 to present.
Guest editor for the special issue “Mitochondrial biology and the yeast paradigm” Feb. 2024.
Editorial board member, Apr. 2019 to present.
- Associate editor. Bioenergetics Communications (BEC). Jul. 2023 to present.
- Co-editor. “The Mitoribosome: Methods and Protocols” volume, series *Methods in Molecular Biology*. Springer Nature. May 2023.
- Article reviewer for over 30 journals including: *Antioxidants*, *Cell Metabolism*, *Cell Reports*, *Disease Models and Mechanisms*, *The FEBS Journal*, *FEMS Yeast Research*, *Mitochondrion*, *Molecular Biology of the Cell (MBoC)*, *Nature Communications*.
- Grant reviewer for US National Institute of Health (NIH), US National Science Foundation (NSF), American Heart Association (AHA), National Czech Science Foundation (GACR), Italian Fondazione Telethon, Swedish Research Council, Canada Foundation for Innovation, UK Wellcome Trust.