

DATE OF BIRTH: 4 March 1978

EDUCATION

2003- Bachelor degree in Pharmaceutical Chemistry and Technology, Alma Mater Studiorum, University of Bologna

2007- PhD in Pharmacology and Toxicology, Alma Mater Studiorum, University of Bologna

TRAINING

2003 - Fellowship from the Italian Ministry of Education University and Research (MIUR), for a study of quality and safety of organic productions

2007/2008 - Research Fellow, Alma Mater Studiorum, University of Bologna – Department of Pharmacology in the Laboratory of Toxicology, directed by Prof. Patrizia Hrelia

RESEARCH ACTIVITY IN FOREIGN INSTITUTIONS

2008- Guest Researcher at the Molecular Neuropathogenesis Laboratory, directed by Prof F.M. LaFerla, Department of Neurobiology and Behavior, University of California, Irvine

EMPLOYMENT AND EXPERIENCE

2008/2021 – Assistant Professor in Toxicology and Pharmacology, Department of Pharmacology and BioTechnology, Alma Mater Studiorum, University of Bologna

2021/present – Associate Professor in Toxicology and Pharmacology, Department of Pharmacology and BioTechnology, Alma Mater Studiorum, University of Bologna

SCIENTIFIC SOCIETY

2009- Member of the Italian Society of Pharmacology (SIF)

2005- Board Member of the Italian Society of Toxicology (SITOX)

CONGRESS SCIENTIFIC COMMITTEE

18° Congresso Nazionale della Società Italiana di Tossicologia (Bologna, 10-13 aprile 2018).

KEY QUALIFICATIONS

The main research interests and expertise are:

- the development of in vitro and in vivo models of neurodegeneration in order to study neurodegenerative events induced by specific neurotoxins;
- the evaluation of new cellular and molecular approaches to detect and quantify the global cellular response to toxic stress, including measurements of apoptosis, specific metabolic capabilities and cell cycle effects, the activation of cellular death/survival biochemical pathways, miRNA analysis, to improve the identification of new neuroprotective agents using in vitro and in vivo models.

She has developed and acquired various skills in experimental animal models, immunohistochemistry and molecular biology techniques for the study of protein expression in aging and neurodegenerative disorders.

REFEREE ACTIVITY

International Journal of Molecular Science, Nutrients, Neurotoxicity Research, Biomedicine & Pharmacotherapy, Cells, Pharmacological Research, Cellular and Molecular Neurobiology, Molecules, Neuroscience Letters.

2018-present: Editorial Board member of *Oxidative Medicine and Cellular Longevity* (IF 7.310)

PROJECT PARTECIPATION:

- 2005-2008: Participant in the Research Unit FIRB 2003: "Sviluppo di metodologie innovative per l'identificazione e la sintesi di nuove molecole a scopo terapeutico: applicazioni nel campo della malattia di Alzheimer". (Prot. RBNE03FH5Y). PI: Prof. P. Hrelia.
- 2008-2010: Participant in the Research Unit PRIN 2007:"nuove strategie farmacologiche con molecole di origine naturale per il contenimento della neurodegenerazione e la prevenzione di patologie neurodegenerative". (Prot. 2007AYMLFZ) PI: Prof. G. Cantelli Forti.
- 2011-2013: Participant in the Research Unit Project of Fondazione Cassa di Risparmio di Imola "Identificazione e studio di piante alimentari e della medicina tradizionale per il benessere e la salute dell'uomo". PI: Prof.ssa Patrizia Hrelia.
- 2012-2016: Participant in the Research Unit FIRB - Accordi di Programma (2011): "Patologie neurodegenerative e danno cerebrale: meccanismi cellulari e molecolari alla base del deterioramento cognitivo e correlazione al danno funzionale nell'uomo". (Prot. RBAP11HSZS) PI: Prof. G. Cantelli Forti.
- 2013-2016: Participant in the Research Unit PRIN 2010-11: "Alterazioni sinaptiche nella malattia di Alzheimer: dalla generazione di nuovi modelli in vitro all'identificazione di nuovi target (SynAD)" (Prot. 2010PWNJXK_002). PI: Prof. P. Hrelia.
- 2015-2016: Participant in the Research Unit Project of Fondazione del Monte di Bologna e Ravenna: "La neuroinfiammazione dell'evento acuto alla neurodegenerazione cronica". PI: Prof. P.Hrelia
- 2017-2020: Participant in the Research Unit PRIN 2015: "Focusing on risk factors to search for novel protective strategies in neurodegenerative diseases: targeting the cellular redox system (Prot. 20152HKF3Z). PI: Prof.ssa P. Hrelia.
- 2019-present: PI Research Unit PRIN 2017: Endocrine disruptors: investigation of the effects on the immune and nervous systems (EDoNIS) (Prot. 2017MLC3NF). PI: Prof. Emanuela Corsini.
- 2022-present: PI of the Project of Fondazione del Monte di Bologna e Ravenna: "Contaminanti emergenti nell'ambiente: caratterizzazione del profilo di interferenza endocrina e del rischio per la salute (Macroarea tematica: Malattie croniche degenerative)" (Prot. N°1355bis/2021).

TEACHING ACTIVITY

She has many teaching responsibility in first cycle degree/Bachelor and Single Cycle degree at the University of Bologna: 2008-2015: Course "Toxicology", Degree in Quality Control of Health Products; 2009-2012: Course "Dermopharmacology I", Degree in Quality Control of Health Products; 2010-2014: Course "Applied Toxicology", Degree in Quality Control of Health Products; 2015-present: Course "Toxicology", Degree in Pharmacy; 2016-present: Course "Applied Toxicology", Degree in Applied Pharmaceutical Sciences; 2018-present: Course "Pharmacovigilance", Degree in Pharmacy.