

## **Maria Grazia Bottone Curriculum**

2022-present: Member of the Guarantee Commission of the University of Pavia  
2022-present: Joint member of the Merged CTS of the University of Pavia  
2019-today: Associated Professor of Department of Biology and Biotechnology "L. Spallanzani", University of Pavia  
2019- present: Member of the Guarantee Commission of the University of Pavia  
2018-present: Member of the Linguistic Center of the University of Pavia  
2017: National Scientific Qualification as Full Professor in the scientific disciplinary sector BIO/06- Comparative Anatomy and Cytology (competition sector 05/B2- Comparative Anatomy and Cytology  
2017-present: Proponent of the PhD in Genetics, Molecular and Cellular Biology  
2011-2016: Member of the Academic Board of the PhD in Genetics, Molecular and Cellular Biology  
2010-2011: Member of the Academic Board of the PhD in Cell Biology  
2004-2012: Associated with the Institute of Molecular Genetics of CNR of Pavia  
2002-2019: Researcher at the Department of Biology and Biotechnology, University of Pavia  
1998: Technical Collaborator of the technical-scientific area (VII<sup>^</sup> qualification), at the "Centro Grandi Strumenti" (Laboratory of flow cytometry) of the University of Pavia, with a fixed-term employment contract for two years and with 50% part-time working hours.  
1998-2002: From November he is a technical officer of the technical-scientific area (VIII<sup>^</sup> qualifications), at the Laboratory of Cell Biology of the Department of Animal Biology of the University of Pavia, with a permanent contract  
1994-1996: Post-PhD at the Histology and Embryology laboratory of the University of Pavia  
1993-1994 Contract as a technician at the Flow Cytometry Laboratory at the Centro Grandi Strumenti at the University of Pavia  
1993: PhD in Citochimica e Citomorfologia at the University of Pavia discussing a thesis entitled: "Citochimica e Citomorfologia della cromatina: definizione di compartimenti funzionali attraverso l'impiego della DNasi I". (tutor Prof. Gabriella Manfredi Romanini)  
1989: Post-graduate internship at the Centro di Studio per l'Istochimica del CNR (section of Histochemistry) of Pavia  
1988: Graduated in Biological Sciences at the University of Pavia

## **Teaching activities**

2005-10: Lab. Tecniche Morfologiche e Cellulari MD Scienze della Natura  
2007-08: Patologia Clinica e Fisiopatologia MD Biologia Sperimentale Applicata  
2008: Metodi in Neuroscienze MD Neurobiologia  
2009: Neuroanatomia Umana MD Neurobiologia  
2010-15: Neurogenesi e Neuromorfologia Comparata MD Neurobiologia  
2010-16: Neuroanatomia Umana MD Neurobiologia  
2013: Citologia ed Istologia BD Scienze Biologiche  
2014: Didattica e Laboratorio della Biologia TFA  
2015: Didattica della Biologia PAS  
2015-21: Neurocitologia e Neuroistologia MD Neurobiologia  
2015-today: Citologia ed Istologia BD Scienze Biologiche  
2018: Didattica delle Scienze FIT  
2021: Neurogenesi e Neuromorf. Comparata MD Neurobiologia  
2022-today: Cellular Neurobiology and Advanced Methods in Neuroscience MD Neurobiology  
2016: Organization of the course of Cellular networks  
2022: Organization of Ph.D. RETREAT in New Emerging Technologies in Cell Biology  
Scientific supervisor of Ph.D. students and of bachelor's and master's degrees

### **Other work experience**

1988-1989 internship for the preparation of the state exam for Biologists at the CNR for Histochemistry, Pavia. She has dealt with determinations of DNA content in flow cytometry in different cell types in normal and pathological conditions

2013-2017: he held the course of "Biologia Cellulare e Tecniche per lo studio delle cellule animali in cultura" (24 hours of theoretical lessons) at the "Fondazione Istituto Tecnico Superiore per le nuove tecnologie della vita in Bergamo.

2011-2013: Responsible for the execution of experiments "In vivo" in murine models

1997-1998: the Faculty of Mathematical, Physical and Natural Sciences assigned her seminars which she carried out as support for the teaching of Cytology and Histology for Biological Sciences

### **Grants for research project**

1998-2000: Member of the research unit of the University of Pavia in the national project: "Exogenous factors and nuclear targets for regulating cell survival", scientific coordinator Nadir Maraldi).

2002- 2004: Member of the PRIN 2002 research unit "Apoptogenic photosensitizers, potentially usable in photodynamic therapy" (National Coordinator C.Pellicciari)

2006-2008: Member of the research unit PRIN 2005 "Photodynamic properties and cytotoxicity of hypocrellin B acetate, a new fluorogenic substrate with potential use in therapy

photodynamics" (National Coordinator C.Pellicciari)2007- present: Research collaboration with Prof. FP Fanizzi of the Dep. of Biological and Environmental Sciences and Technologies, University of Salento

2011-2013: Scientific responsibility of the research unit Prin 2009 "In vitro and in vivo evaluation of the neurotoxicity of new platinum compounds" (National Coordinator FP Fanizzi, University of Salento)

2011-2013: Component of the research project "In vivo and in vitro effects of new cisplatin analogues: evaluation of neurotoxicity, nephrotoxicity and hepatotoxicity", Foundation Banca del Monte

2016-present: Research collaboration with Prof. Osella Domenico and Prof. Ravera Mauro of the Department of Science and Innovation

Technological University of Piemonte Orientale, Alessandria

2016: Research collaboration with Dr. Davide De Pietri Tonelli head of the project "neurobiology of microRNAs", Italian Institute of Technology

2017: Research collaboration with Prof. Bruno Cozzi, Dept. of Comparative Biomedicine and Food Science, University of Padua

2017: Scientific responsibility of the crowdfunding project on anorexia nervosa in collaboration with Fondazione Mondino, Pavia.

2022-present: Component of the PNRR NODES project, Ecosystems of innovation, SPOKE 7 Secondary agro-industry

2022-present: Component of the Immuno-Hub project (trajectory 4 Ministry of Health tender)

### **Scientific organisations**

1997-2000: Collaboration in the preparation and execution of courses in techniques Microscopic, at the Department of Animal Biology of the University of Pavia, within the Leonardo da Vinci project of the European Community.

2001: Active participation in the organization and development of the Microscopy Course Optics and Microphotography for the University Master's Degree in Microscopic Analysis Techniques in Biology.

2016-2017: Organization of several seminars within the Master's degree in Neurobiology

2017: Organization of the Neurobiology Symposium, at the Golgi Museum Hall, University of Pavia

2021: Coordination and supervision of a practical session "Analysis in flow cytometry of cell proliferation" within the course of Cytometric Methods and Technologies for the Master in Microscopic Analysis Techniques in Biology

2022: Organization of the Congress "Next Generation Neurobiology Training: a New Era Begins at the University of Pavia (22-23 September)

2023-present: Organization of summer internships for high school students

**Editorial activity**

2003- present: Reviewer for international scientific journals including European Journal of Cancer, Cell Proliferation, Biochemistry Research International, Journal of Histochemistry & Cytochemistry, International Journal of Developmental Neuroscience, Life Sciences, Brain Research, biomedicines, International Journal of Molecular Sciences, Cellular and Molecular Neurobiology, Neurotoxicity Research.

2012: Commissioner for the final exams of the PhD in Neurochemistry and Neurobiology, University of Genova

2012- 2013: Cineca Referee for FIRB project

2013- 2016: Referee projects of the National Science Center, Poland

2014: referee for SIR funding

2017-present: Associate Editor of the Journal of Embryology & Stem Cell Research (JES-MedWin Publishers)

2018-present. Guest Topic Editor for Frontiers in Neuroscience

2019-2022: Guest Associate Editor for Neuropharmacology, for the special issue "Brain Cancers: New Perspectives and Therapies" (<https://www.frontiersin.org/research-topics/13083/brain-cancers-new-perspectives-and-therapies>)

2020-present: Topic Editor for International Journal of Molecular Sciences (IJMS)

2022-2023: Editor for the special issue "Aging: Oxidative Stress and Inflammation New Target for Promote Healthy Longevity" in the International Journal of Molecular Sciences (IJMS)

2024-present: Guest Editor for the special issue "Natural Products: New Insights into Overcoming Oxidative Stress in Pathological Diseases"