

# Mariagrazia Grilli

## PERSONAL DATA

Born in Brescia, Italy. Resident in Novara, Italy

## BIO AND EDUCATION

Medical Degree (magna cum laude), University of Brescia, Medical School, Brescia, Italy

Specialty in Biochemical and Clinical Sciences, University of Brescia, Brescia, Italy

PhD in Experimental Medicine, University of Brescia, Brescia, Italy

## UNIVERSITY CAREER

2005-	Associate Professor of Pharmacology, DSF, UPO, Novara, Italy
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## UNIVERSITY POSITIONS

2015-	DSF Representative Scientific Member, Institutional Animal Care and Use Committee , IACUC (Organismo per il Benessere Animale, OBA), UPO
2011-2014	Vicepresident, Institutional Animal Care and Use Committee IACUC (Comitato Etico per la Sperimentazione Animale), UPO
2008-	Reference person for Erasmus exchange program with Helsinki University, Helsinki, Finland
2013-oggi	Member, Doctoral School Committee, PhD in Chemistry & Biology, UPO
2006-2012	Member, Doctoral School Committee, PhD School in Pharmaceutical and Food Biotechnologies, UPO
2003-2005	Lecturer in Pharmaceutical Biotechnology, Medical and Pharmaceutical Biotechnology School, Università Vita e Salute San Raffaele, Milano
1998-2001	Lecturer in Immunopharmacology, School of Medicine, University of Brescia, Brescia, Italy
1991-1996	Cultore della Materia (General and Special Pharmacology), School of Medicine, University of Brescia, Brescia, Italy

## SCIENTIFIC POSITIONS

2016-	Member of the Italian Committee for the European Register of Certified Pharmacologists
2006-2011	President, Drug & Food Biotechnology Research Center, DISCAFF, UPO, Novara, Italy
2000-2005	Section Head, Cellular and Molecular Biology, Schering Plough Research Institute, San Raffaele Biomedical Science Park, Milan, Italy
1997-2000	Principal Scientist, Schering Plough Research Institute, San Raffaele Biomedical Science Park, Milan, Italy
1992	Visiting Scientist, National Institute of Allergy and Infectious Diseases, Laboratory of Immunology, NIH, Bethesda, MD USA
1990-1991	Fogarty Fellow, National Institute of Allergy and Infectious Diseases, Laboratory of Immunology, NIH, Bethesda, MD USA
1988-1999	Visiting Scientist, National Heart Lung and Blood Institute, Laboratory of Chemical Pharmacology, NIH, Bethesda, MD, USA

### MAIN FIELDS OF INTEREST

1. Neural stem cells
2. Adult neurogenesis
3. Neuropsychiatric disorders
4. Neuroplasticity
5. NF- $\kappa$ B

### CURRENT LINES OF RESEARCH

1. Role of adult neurogenesis in the physiopathology of neuropsychiatric disorders
2. Hippocampal and hypothalamic adult neural stem cells as targets of psychoactive drugs
3. Contribution of neural stem cell abnormalities to cognitive impairment associated with Down Syndrome
4. Role of NF- $\kappa$ B mediated signalling in the modulation of adult neurogenesis and neuroplasticity
5. Cross-communication between neural stem cells and non neuronal cells in the adult neurogenic niche

### CURRENT FUNDED PROJECTS

PROGRAMME	FUNDED PROJECT
Fondazione Generali	"NEW AVENUES FOR THE RESCUE OF INTELLECTUAL DISABILITY IN DOWN SYNDROME "
ACRAF	"IN VITRO STUDIES ON THE PRONEUROGENIC POTENTIAL OF TRAZODONE: RELEVANCE FOR A BETTER UNDERSTANDING OF ITS CONSOLIDATED AND NOVEL THERAPEUTIC ACTIVITIES"
Otzuka	"ADULT NEURAL STEM CELLS: A NOVEL TARGET FOR MODULATION OF NEUROPLASTICITY"

### TOP FIVE PAPERS

1. S-M. Kang, A.-C. Tran, **M. Grilli** and M.J. Lenardo. NF-kappaB subunit regulation in non-transformed CD4+ T lymphocytes. *Science*, 256: 1452-1456 (1992).
2. **M. Grilli**, M. Pizzi, M. Memo and P.F. Spano. Neuroprotection by aspirin and sodium salicylate through blockade of NF-kappaB activation. *Science*, 274: 1383-1385, (1996).
3. **M. Grilli**, E. Diodato, G. Lozza, R. Brusa, D. Uberti, R. Rozmahel, D. Westaway, P. St. George-Hyslop, M. Memo, E. Ongini. Presenilin-1 regulates the neuronal threshold to excitotoxicity both physiologically and pathologically. *Proceedings of the National Academy of Sciences*, 97: 12822-12827 (2000).
4. S. Denis-Donini, A. Dellarole, P. Crociara, G. Quadrato, V. Bortolotto, M. T. Francese, P. L. Canonico, M. Orsetti, P. Ghi, M. Memo, S. A. Bonini, Giulia Ferrari-Toninelli, **M. Grilli**. Impaired adult neurogenesis associated to short-term memory defects in NF- $\kappa$ B p50 deficient mice. *Journal of Neuroscience*, 28: 3911-3919 (2008).
5. Cuccurazzu B, Bortolotto V, Valente MM, Ubezio F, Koverech A, Canonico PL, **Grilli M**. Upregulation of mGlu2 Receptors via NF- $\kappa$ B p65 Acetylation Is Involved in the proneurogenic and antidepressant Effects of Acetyl-L-Carnitine. *Neuropsychopharmacology*, 38(11):2220-30 (2013).

### AWARDS

1. FIDIA fellowship for abroad scientific studies (1988-1989)
2. Fogarty Fellowship, National Institutes of Health, Bethesda USA (1990-1991)
3. Award Francantonio Bertè in Pharmacology (2011)