

## PERSONAL INFORMATION

## MARIA LUISA BARBACCIA

📍 University of Rome Tor Vergata, Via Montpellier 1-00133 Rome

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✉ barbaccia@med.uniroma2.it

Sex F | Date of birth 28/10/1954 | Nationality Italian

## WORK EXPERIENCE

- March 2005/present **Tenured Full Professor of Pharmacology, Dept. of Systems Medicine**  
University of Rome Tor Vergata Medical School
- March 2002/February 2005 **Full Professor of Pharmacology, Dept. Neuroscience**  
University of Rome Tor Vergata Medical School
- November 1991/February 2002 **Associate Professor of Pharmacology, Dept. Neuroscience**  
University of Rome Tor Vergata Medical School
- April 1991 **Tenured Associate Professor of Chemotherapy**
- April 1988/ April 1991 **Associate Professor of Chemotherapy, Dept. Experimental Medicine and Biochemical Sciences**  
University of Rome Tor Vergata Medical School
- December 1985/March 1988 **Research Assistant Professor, Dept. Pharmacology**  
Georgetown University Medical School, Washington, D.C. USA
- April – November 198 **"Ricercatore"**  
University of L'Aquila Medical School, L'Aquila, Italy
- February 1984/August 1985 **Guest Researcher, Laboratory of Preclinical Pharmacology**  
N.I.M.H. St. Elizabeth's Hospital, Washington, D.C., USA (since april 1984 on leave of absence from the University of L'Aquila, Italy)
- November 1980/January 1984 **Fogarty Fellow, Laboratory of Preclinical Pharmacology**  
N.I.M.H., St. Elizabeth's Hospital, Washington, D.C., USA

## EDUCATION AND TRAINING

- April – October 1980 **Fellowship, Residency in Pharmacology**  
Milan University, Milan, Italy
- January 1980 **Physician State Board exam, approved**
- November 1979 **M.D. Degree (cum Laude)**  
University of Milan Medical School. Thesis "Effects of acute and chronic ethanol treatments on GABAergic and dopaminergic function in the central nervous system"
- October 1977-November 1979 **Internship, Institute of Pharmacology**  
Milan University Medical School
- July 1973 **Graduation from High School**  
Liceo-Ginnasio "Arnaldo da Brescia", Brescia-Italy

## ADDITIONAL INFORMATION

Other activities

**June 2006/present- Member, Ethics Committee**

Azienda Policlinico Tor Vergata- Rome, Italy

**February 2009/ 2013- Member, Ethics Committee ACISMOM –**

Ospedale S.Giovanni, Rome

Other activities

**June 2006/present- Member Ethics Committee**

Azienda Policlinico Tor Vergata, Rome Italy

**September 2011/present- Member, Ethics Committee**

Ospedale Pediatrico Bambino Gesù-Rome, Italy

**Academic year 2010/2011-Director, Master**

"Policy Issues in Medicinal Products"- University of Rome Tor Vergata, Rome, Italy

Selected publications

- Roscetti G, Del Carmine R, Trabucchi M, Massotti M, Purdy RH, Barbaccia ML. Modulation of neurosteroid synthesis/accumulation by L-ascorbic acid in rat brain tissue: inhibition by selected serotonin antagonists. *Journal of Neurochemistry*, 71:1108-1117, 1998.
- Concas A, Mostallino MC, Porcu P, Follesa P, Barbaccia ML, Trabucchi M, Purdy RH, Grisenti P, Biggio G. Role of brain allopregnanolone in the plasticity of  $\gamma$ -aminobutyric acid type A receptor in rat brain during pregnancy and after delivery. *Proceedings of the National Academy of Science (USA)*, 95: 13284-13289, 1998.
- Barbaccia ML, Concas A, Serra M, Biggio G. Stress and neurosteroids in adult and aged rats. *Experimental Gerontology*, 33(7-8): 697-712, 1998.
- Serra M, Madau P, Chessa MF, Caddeo M, Sanna E, Trapani G, Franco M, Liso G, Purdy RH, Barbaccia ML, Biggio G. 2-Phenyl-imidazo [1,2a]pyridine derivatives as ligands for peripheral benzodiazepine receptors: stimulation of neurosteroid synthesis and anticonflict action in rats. *British Journal of Pharmacology* 127: 177-187, 1999.
- Concas A, Follesa P, Barbaccia ML, Purdy RH, Biggio G. Physiological modulation of GABAA receptor plasticity by progesterone metabolites. *European Journal of Pharmacology*, 375:225-235, 1999.
- Barbaccia ML, Affricano D, Trabucchi M, Purdy RH, Colombo G, Agabio R, Gessa G.L. Ethanol markedly increases "GABAergic" neurosteroids in alcohol-preferring rats. *European Journal of Pharmacology* 384, 1999.
- Barbaccia ML, Lello S, Sidiropoulou T, Cocco T, Sorge R P, Cocchiarale A, Piermarini V, Sabato AF, Trabucchi M, Romanini C. Plasma  $5\alpha$ -androstane- $3\alpha,17\beta$ -diol, an endogenous steroid that positively modulates GABAA receptor function, and anxiety: a study in menopausal women. *Psychoneuroendocrinology* 25: 659-675, 2000
- Ghezzi P, Di Santo E, Sacco S, Foddi C, Barbaccia ML, Mennini T. Neurosteroid levels are increased in vivo after LPS treatment and negatively regulate LPS-induced TNF production. *European Cytokine Network* 11(3):464-469, 2000 -Barbaccia ML, Affricano D, Purdy RH, Macciocco E, Spiga F, Biggio G. Clozapine, but not haloperidol, increases brain neuroactive steroid concentrations in the rat. *Neuropsychopharmacology*, 25:489-497,2001
- Barbaccia ML, Serra M, Biggio G. Stress and neuroactive steroids. *International Review in Neurobiology* 46: 243-272, 2001
- Barbaccia ML, Colombo G, Affricano D, Carai MAM, Vacca G, Melis S, Purdy RH, Gessa GL. GABAB receptor-mediated increase of neurosteroids by  $\gamma$ -hydroxybutyric acid. *Neuropharmacology*, 42: 782-791, 2002 -Maccarrone M, Valverde O, Barbaccia ML, Castané A, Maldonado R, Ledent C, Parmentier M, Finazzi-Agrò A. Age-related changes of anandamide metabolism in CB1 cannabinoid receptor knock out mice: correlation with behaviour. *European Journal of Neuroscience*, 15: 1178-1186, 2002
- Albo F, Barbaccia ML, Cavazza A, Marini M, Roda LG. Dehydroepiandrosterone metabolism in human plasma. *Hormone and Metabolic Research* 35:104-108, 2003
- Barbaccia ML. Neurosteroidogenesis: relevance to neurosteroid actions in brain and modulation by psychotropic drugs. *Critical Reviews in Neurobiology*, 16(1-2):67-74, 2004.
- Barbaccia ML, Carai MAM,Colombo G, Lobina C, Purdy RH, Gessa GL. Endogenous  $\gamma$ -aminobutyric acid (GABA)A receptor active neurosteroids and the sedative/hypnotic action of  $\gamma$ -hydroxybutyric acid (GHB): a study in GHB-S(sensitive) and GHB-R(resistant) rat lines. *Neuropharmacology*, 49: 48-58, 2005.
- Barbaccia ML, Scaccianoce S, Del Bianco P, Campolongo P, Trezza V, Tattoli M, Cuomo V, Steardo L. Cognitive impairment and increased brain neurosteroids in adult rats perinatally exposed to low millimolar blood alcohol concentrations. *Psychoneuroendocrinology* 32: 931-942, 2007
- Pistritto G, Papacleovoulou G, Ragone G, Di Cesare S, Papaleo V., Mason JI, Barbaccia ML. Differentiation-dependent progesterone synthesis and metabolism in NT2-N human neurons. *Experimental Neurology* 217: 302-311, 2009
- Bortolato M, Devoto P, Roncada P, Frau R, Flore G, Saba P, Pistritto G, Soggiu S, Pisanu S, Zappalà A, Ristaldi S, Tattoli M, Cuomo V, Marrosu F, Barbaccia ML. Isolation rearing-induced reduction of  $5\alpha$ -reductase expression: relevance to dopaminergic impairments. *Neuropharmacology*, doi:10.1016/j.Neuropharm.2011.01.13, 2011
- Barbaccia ML. Much excitement about antidepressants, DBI and c-fos. *Pharmacol Res*. Oct;64(4):333-5. Epub 2011 Jun 6, 2011
- Pistritto G., Papaleo V., Sanchez P., Ceci C., Barbaccia ML. Divergent modulation of neuronal differentiation by caspase-2 and -9. *PLoS One* 7(5):e36002. Epub 2012 May 18, 2012
- Ceci C, Barbaccia ML, Pistritto G. A not cytotoxic nickel concentration alters the expression of neuronal differentiation markers in NT2 cells. Submitted.
- Di Pietro ML, Cutrera R, Teleman AA, Barbaccia M L. Placebo-controlled trials in pediatrics and the child's best interest. Submitted