

PROF. LUCIA CIRANNA – CURRICULUM VITAE



PERSONAL DETAILS

Date of birth: 25/09/1966

Marital status: married

Nationality: italian.

EDUCATION AND TRAINING

1989: Degree in Pharmacy, University of Catania, Italy.

1995: PhD in Neuroscience, Louis Pasteur University of Strasbourg (France).

EMPLOYMENT AND RESEARCH EXPERIENCE

1989-1990: Post graduate training, Dipartimento di Scienze Fisiologiche, Università di Catania, Italy.

1990-1994 : PhD training, Laboratoire de Physiologie Générale, Université Louis Pasteur, Strasbourg, France.

1994- 2006: Assistant Professor, Dipartimento di Scienze Fisiologiche, Università di Catania, Italy.

28th october - 28th december 1998: Visiting fellow, Laboratory of Adaptive Systems, National Institute of Neurological Disorders and Stroke, N.I.H., Bethesda, U.S.A.

From 2006 to present: Associate Professor of Physiology, School of Pharmacy, Dipartimento di Scienze Biomediche e Biotecnologiche, Sezione di Fisiologia, Università di Catania, Italy.

February 2012 : qualified to the function of Professeur des Université (France), section 69 (Neurosciences). Qualification No.: 12169226456.

RESEARCH PROJECTS:

2013-2016: Coordinator and research Unit PI of the research project: “Activation of serotonin type 7 (5-HT₇) receptors as a novel therapeutic strategy in Fragile X Syndrome”, financed by Telethon Foundation (grant n. GGP13145)

2013-2014: Coordinator and research Unit PI of the research project: “Preclinical evaluation of serotonin type 7 (5-HT₇) receptor agonists as novel pharmacological tools in Fragile X Syndrome”, financed by FRAXA Research Foundation, U.S.A (call 2013).

2008-2010: Coordinator and research Unit PI of project PRIN 2007L92XSP “Neurotransmitter-mediated regulation of AMPA receptor function: implications in physiological transmission and pathology”, financed by MIUR (Italian Ministry of Education and Research).

2003-2004: participation to project PRIN 2002051388_007 (MIUR).

2001-2002: participation to project PRIN MM05082288_005 (MIUR).

1999-2001: participation to project Biotech BIO4-98-0517.

June – september 1992: Short-term fellowship, European Science Foundation.

REVISION OF ARTICLES:

Journal of Neurochemistry (Blackwell publishing); Pharmacological Research (Elsevier), Molecular Brain Research (Elsevier); Frontiers in Neuropharmacology (Frontiers Journals); International

Journal of Developmental Neuroscience (Elsevier); Hippocampus (Wiley); PLOS ONE; The Journal of Physiology (London; official journal of The Physiological Society).

EDITORIAL BOARD MEMBERSHIP: International Journal of Neurology Research (2014).

REVISION OF GRANT APPLICATIONS:

2004: Health Research Board, Ireland, (PhD Training Sites 2004).

2012: Wellcome Trust/ DBT India Alliance.

2013: Italian Ministry of Education and University (MIUR; projects PRIN 2012 and FIRB 2013).

MEMBERSHIP TO SCIENTIFIC SOCIETIES:

American Society for Neuroscience (SfN); Italian Society for Physiology (Società Italiana di Fisiologia, SIF); European Mind and Metabolism Association (EMMA).

TEACHING EXPERIENCE

1st june – 30th november 1990: Physiology, Maitre de Conference Invité, Louis Pasteur University of Strasbourg (France);

1999-2004: Chemical composition of dietary food, School of Pharmacy of Catania University (Italy);

2000-2001: Endocrinology, School of Pharmacy of Catania University (Italy);

2003-2009: Physiology of Nutrition, School of Pharmacy of Catania University (Italy).

2009 - present: Human Physiology, School of Pharmacy of Catania University.

2012 - present: Physiology and Biophysics, School of Medicine of Catania University.

List of 10 selected publications (full articles)

1) Ciranna L.* and Catania M.V. (2014) 5-HT7 receptors as modulators of neuronal excitability, synaptic transmission and plasticity: physiological role and possible implications in autism spectrum disorders. *Front. Cell. Neurosci.* **8**:250. doi: 10.3389/fncel.2014.00250 IF 4.2

2) D'Antoni, S., Spatuzza, M., Bonaccorso, C.M., Musumeci, S.A., Ciranna, L., Nicoletti, F., Huber, K.M. and Catania, M.V.* (2014). Dysregulation of group-I metabotropic glutamate (mGlu) receptor mediated signalling in disorders associated with Intellectual Disability and Autism. *Neurosci Biobehav Rev.* (in press) doi: 10.1016/j.neubiorev.2014.02.003 IF 9.9

3) Costa L., Spatuzza M., D'Antoni S., Bonaccorso C.M., Trovato C., Musumeci S.A., Leopoldo M., Lacivita E., Catania M.V. and Ciranna L.* (2012) Activation of 5-HT7 serotonin receptors reverses metabotropic glutamate receptor-mediated synaptic plasticity in wild-type and Fmr1 knockout mice, a model of Fragile X Syndrome. *Biological Psychiatry* **72**(11):924-933. IF 9.2.

4) Costa L, Trovato C., Musumeci S. A. , Catania M. V. and Ciranna L.* (2012) 5-HT1A and 5-HT7 receptors differently modulate AMPA receptor-mediated hippocampal synaptic transmission. *Hippocampus* **22**(4):790-801. IF 5.1

5) Costa L., Santangelo F., Li Volsi G. and Ciranna L.* (2009) Modulation of AMPA receptor-mediated ion current by pituitary adenylate cyclase-activating polypeptide (PACAP) in CA1 pyramidal neurons from rat hippocampus. *Hippocampus* **19** (1):99-109. IF 5.1

6) Ciranna L.* (2006) Serotonin as a modulator of glutamate- and GABA-mediated neurotransmission: implications in physiological functions and in pathology. *Current Neuropharmacology* **4** (2), 101-114. IF 3.4

- 7) Ciranna L.,* Licata F., Li Volsi G. and Santangelo F.** (2004) Alpha2- and beta-adrenoceptors differentially modulate GABAA- and GABAB-mediated inhibition of red nucleus neuronal firing. *Exp. Neurol.* **185**, 297-304. IF 4.4
- 8) Ciranna L.* and Cavallaro S.** (2003) Opposing effects by pituitary adenylate cyclase-activating polypeptide and vasoactive intestinal peptide on hippocampal synaptic transmission. *Exp. Neurol.* **184**, 778-784. IF 4.4
- 9) Ciranna L., Feltz P. and Schlichter R.*** (1996). Selective inhibition of high voltage-activated L-type and Q-type Ca²⁺ currents by serotonin in rat melanotrophs. *J. Physiol. (Lond.)* **490.3**, 595-609. IF 4.9
- 10) Ciranna L., Mouginot D., Feltz P. and Schlichter R.*** (1993). Serotonin inhibits Ca²⁺ currents in porcine melanotrophs by activating 5-HT_{1C} and 5-HT_{1A} receptors. *J. Physiol. (Lond.)* **463**, 17-38. IF 4.9

* Corresponding author