



CURRICULUM VITAE

Name and surname: **Ketty Leto**
Date of birth: 30/08/1980
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EDUCATION

01/07/2004

Master Degree in Psychology, summa cum laude. Thesis title: "Brain development and phylogenesis of the self-conscious mind".

2004-2008

PhD programme in Neuroscience under the supervision of Prof. F. Rossi at the Department of Neuroscience "Rita Levi Montalcini", University of Turin, Italy. Thesis project: "Development of cerebellar GABAergic interneurons".

Genuary 2006

Qualification for performing the profession of Psychologist.

2009-2013

Training and qualification in Cognitive Psychotherapy at "Centro Clinico Crocetta" of Turin (summa cum laude).

2011-2014

Master and qualification in Clinical Sexology

WORK EXPERIENCE

November 2008-2012

Postdoc fellowship at the Department of Neuroscience, University of Turin, founded by Fondazione per la Ricerca Biomedica Onlus. Research activities: study of the mechanisms of cerebellar development and phenotype specification.

March 2012-March 2015

Assistant Professor at the Department of Neuroscience "Rita Levi Montalcini", University of Turin. Work activities at the Neuroscience Institute of the Cavalieri Ottolenghi Foundation (NICO), Orbassano, Turin.

March 2015-present

Psychotherapist for adult individuals and couples. Collaboration, in quality of tutor, with the School of Psychotherapy "Centro Clinico Crocetta" of Turin.

FUNDING

Firb Project (Miur) n. RBFR10A01S "Target generation of cerebellar and striatal neurons as preventive strategy for CNS disorders", approved with D.M. n.556/2011. Funds Provided: € 487.300

PRIZES

- "Optime" prize sponsored by "Unione Industriale" of Turin, for academic year 2004/2005.
- Prize for the best thesis of the Faculty of Psychology for the academic year 2004/2005, sponsored by Faculty of Psychology, Turin.

KNOWLEDGE OF FOREIGN LANGUAGES

Very good knowledge of English and French.

LIST OF PUBLICATIONS

De Luca A, Cerrato V, Fucà E, Parmigiani E, Buffo A, **Leto K** (2015). Sonic Hedgehog patterning during cerebellar development. *CELL MOL LIFE SCI*. PMID: 26499980.

Vazquez-Sanroman D, Carbo-Gas M, **Leto K**, Cerezo-Garcia M, Gil-Miravet I, Sanchis-Segura C, Carulli D, Rossi F, Miquel M (2015) Cocaine-induced plasticity in the cerebellum of sensitised mice. *PSYCHOPHARMACOLOGY* PMID: 26482898.

Leto K, Arancillo M, Becker EBB, Buffo A, Chiang C, Ding B, Dobyns WB, Dusart I, Haldipur P, Hatten ME, Hoshino M, Joyner AL, Kano M, Kilpatrick DL, Koibuchi N, Marino S, Martinez S, Millen KJ, Millner TO, Miyata T, Parmigiani E, Schilling K, Sekerková G, Sillitoe RV, Sotelo C, Uesaka N, Wefers A, Wingate RTJ, Hawkes R (2015) Consensus Paper: Cerebellar Development. *CEREBELLUM*. PMID: 26439486

Parmigiani E, **Leto K**, Rolando C, Figueres-Oñate M, López-Mascaraque L, Buffo A, Rossi F (2015). Heterogeneity and Bipotency of Astroglial-Like Cerebellar Progenitors along the Interneuron and Glial Lineages. *THE JOURNAL OF NEUROSCIENCE* 35(19):7388-7402.

Vazquez-Sanroman D, **Leto K**, Cerezo-Garcia M, Carbo-Gas M, Sanchis-Segura C, Carulli D, Rossi F, Miquel M (2015). The cerebellum on cocaine: plasticity and metaplasticity. *ADDICTION BIOLOGY* 20(5):941-955.

Leto K, Carulli D, Buffo A (2014). Symposium in honor of Ferdinando Rossi: a passionate journey through the cerebellar mysteries. *CEREBELLUM* 13(6):791-794.

De Luca A, Parmigiani E, Tosatto G, Martire S, Hoshino M, Buffo A, **Leto K**, Rossi F (2015). Exogenous Sonic hedgehog modulates the pool of GABAergic interneurons during cerebellar development. *CEREBELLUM* 14(2):72-85.

Taylor J, Kittappa R, **Leto K**, Gates M, Borel M, Paulsen O, Spitzer S, Karadottir RT, Rossi F, Falk A, Smith A (2013). Stem cells expanded from the human embryonic hindbrain stably retain regional specification and high neurogenic potency. *JOURNAL OF NEUROSCIENCE* 33(30):12407-12422.

Magrassi L, **Leto K**, Rossi F (2013). Lifespan of neurons is uncoupled from organismal lifespan. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. 110(11):4374-4379.

Florio M, **Leto K**, Muzio L, Tinterri A, Badaloni A, Croci L, Zordan P, Barili V, Albieri I, Guillemot F, Rossi F, Consalez GG. (2012) Neurog2 regulates progenitor cell cycle progression and Purkinje cell dendritogenesis in cerebellar development. *DEVELOPMENT* 139(13):2308-2320.

Corno D, Pala M, Cominelli M, Cipelletti B, **Leto K**, Croci L, Barili V, Brandalise F, Melzi R, Di Gregorio A, Sergi LS, Politi LS, Piemonti L, Bulfone A, Rossi P, Rossi F, Consalez GG, Poliani PL, Galli R (2012). Gene signatures associated with mouse postnatal hindbrain neural stem cells and medulloblastoma cancer stem cells identify novel molecular mediators and predict human medulloblastoma molecular classification. *CANCER DISCOVERY* 2(9):554-568.

Leto K, Rolando C, Rossi F (2012). The Genesis of Cerebellar GABAergic Neurons: Fate Potential and Specification Mechanisms. *FRONTIERS IN NEUROANATOMY* 6(6):1-10.

Leto K, Rossi F (2012) Specification and differentiation of cerebellar GABAergic neurons. *CEREBELLUM* 11(2):434-435.

Leto K, Bartolini A, Di Gregorio A, Imperiale D, De Luca A, Parmigiani E, Filipkowski RK, Kaczmarek L, Rossi F (2011). Modulation of cell-cycle dynamics is required to regulate the number of cerebellar GABAergic interneurons and their rhythm of maturation. *DEVELOPMENT* 138(13):3463-3472.

Foscarin S, Ponchione D, Pajaj E, **Leto K**, Gawlak M, Wilczynski GM, Rossi F, Carulli D (2011). Experience-dependent plasticity and modulation of growth regulatory molecules at central synapses. *PLOS ONE* 31(6):1-14.

Leto K, Bartolini A, Rossi F (2010). The prospective white matter: an atypical neurogenic niche in the developing cerebellum. *ARCHIVES ITALIENNES DE BIOLOGIE* 148(2):137-146.

Rolando C, Gribaudo S, Yoshikawa K, **Leto K**, De Marchis S, Rossi F (2010). Extracerebellar progenitors grafted to the neurogenic milieu of the postnatal rat cerebellum adapt to the host environment but fail to acquire cerebellar identities. *EUROPEAN JOURNAL OF NEUROSCIENCE* 31(8):1340-1351.

Leto K*, Bartolini A*, Yanagawa Y, Obata K, Schilling K, Magrassi L, Rossi F (2009). Laminar fate and phenotype specification of cerebellar GABAergic interneurons. *JOURNAL OF NEUROSCIENCE* 29(21):7079-7091.

Leto K, Bartolini A, Rossi F (2008). Development of cerebellar GABAergic interneurons: origin and shaping of the "minibrain" local connections. *CEREBELLUM* 7(4):523- 529.

Carletti B, Williams IM, **Leto K**, Nakajima K, Magrassi L, Rossi F (2008). Time constraints and positional cues in the developing cerebellum regulate Purkinje cell placement in the cortical architecture. *DEVELOPMENTAL BIOLOGY* 317(1):147-160.

Williams IM, Carletti B, **Leto K**, Magrassi L, Rossi F (2008). Cerebellar granule cells transplanted in vivo can follow a novel migratory route to integration. *NEUROBIOLOGY OF DISEASE* 30(1): 139-149.

Leto K*, Carletti B*, Williams IM, Magrassi L, Rossi F (2006) Different types of cerebellar GABAergic interneurons originate from a common pool of multipotent progenitor cells. *JOURNAL OF NEUROSCIENCE* 26(45):11682-11694.

Book Chapter:

Leto K, Bartolini A, Rossi F (2008) Neurogenesis in the cerebellum of rodents, in BONFANTI L., Postnatal and Adult Neurogenesis, RESEARCH SIGNPOST, Trivandrum, pp. 63-81.

Leto K, Rossi F (2015) Neural Transplantation: evidence from the rodent cerebellum. In Encyclopedia of Molecular Cell Biology and Molecular Medicine, in press.