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Born in TURIN (Italy) 18/09/1963

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Academic Position

Sector 05/B2 - Comparative Anatomy and Cytology
Full Professor

Scientific Education

1993- Degree in Biological Science, University of Turin (Italy).
1994- practical training, Lab. of Neurobiology, Dept. of Animal and Human Biology, Univ. Turin; two months stage at the Dept. of Pharmacology, Univ. Basel (Switzerland)
1995- Telethon Foundation fellowship, at the Dept. of Neuroscience, Univ. Turin.
1995-1998- PhD in Neuroanatomy, Dept. of Veterinary Morphophysiology, Univ. Turin.
1998- post-doc fellowship (Cavalieri Ottolenghi Foundation) Dept. of Animal and Human Biology, Univ. Turin.
1999-2004- Assistant Professor, Dept of Animal and Human Biology, Univ. Turin.
2000- Visiting Assistant Professor, Dept. Anatomy and Neurobiology, Univ. Maryland (USA).
2005- Associate Professor (SSD- BIO06; 05/B2), Dept of Life Sciences and Systems Biology, Univ. Turin.
2016- Full Professor (SSD- BIO06; 05/B2), Dept of Life Sciences and Systems Biology, Univ. Turin.

Technical competences: in vivo and in vitro techniques of brain analysis, including immunocytochemistry, stereotaxic injections, electron and confocal microscopy and tissues cultures, olfactory behavioral analyses.

Principal research lines:

Research activity on anatomical/molecular organization of the postnatal and adult neurogenic niches in the CNS of mammals (publications from 1997 to 2009). Ongoing studies: i) role of newborn neurons in the context of reproduction and cognitive functions; ii) function of neuronal parenchymal progenitors in the striatum of adult mammals (publications from 2009 to 2017). From 2016, effects produced by aerobic physical activity (amateur running) on brain plasticity (<http://www.nico.ottolenghi.unito.it/ita/Corsa-Benessere-Invecchiamento>).

PhD Students (since 2005): Giachino C, Luzzati F, Oboti L, Schellino R, Nato G, Trova S

Postdocs (since 2008): Giachino C, Luzzati F, Oboti L, Schellino R, Nato G

Current composition of the Group

Researchers: Peretto P, De Marchis S, Luzzati F

PhD students: Trova S, Crisci S

Postdoc: Bonzano S, Nato G

Main invited conferences (last 10 years):

2009- 9e Colloque Société des Neurosciences, Bordeaux (France):

Neurogenesis in the striatum of the adult mammalian brain;

2009- XIX Congress ECRO, Cagliari (Italy): Integration and survival of newly-formed neurons in the AOB of adult mice;

2010- Settimana del Cervello- La neurogenesi nell'encefalo dei mammiferi adulti; Circolo dei Lettori, Torino;

2012- UNISTEM, l'Italia Unita dalla Scienza: Le cellule staminali e la plasticità del cervello; Aosta

2013- XV Congress SINS, Roma (Italy): Adult neurogenesis as a physiological mechanism to recognize mate pheromones in mice;

2014- 75° Congresso UZI, Bari (Italy): the interplay between pheromones adult neurogenesis and reproduction;

2015- Brain Awareness week, Forrest Gump: Corsa e Cervello; Circolo dei Lettori, Torino;

2015-DiSFeBmeetsNICO, Milano- the interplay between reproductive-social stimuli and adult olfactory bulb neurogenesis;

2015- invited chair at the symposium OLFACTION: ECOST-MEETING-BM1105-260415-057868, Monash University Prato Center Prato, Italy.

2017- SeralMente- La plasticità cerebrale: dalle cellule staminali alla vita di tutti i giorni- Torino 10 Marzo 2017.

2017- UNISTEMDAY 2017 - Corsa staminali neurali e memoria- Torino 17 Marzo 2017.

2017- Anche la Comunicazione Scientifica è una Scienza- Attrazione Sessuale: un Semplice Meccanismo Biologico- Pisa 6 Giugno 2017

2017- "Adult neurogenesis and its role in the control of opposite sex attraction in male mice" 63° Convegno Gruppo Embriologico Italiano- Roma 12-15 Giugno 2017

2017- "Neural plasticity, Comparative Data and Behavioral Outputs". Società Zoologica Italiana- Torino, 18-23 September 2017

Main scientific collaborations (last 5 years):

Dr. Paolo Giacobini, Jean-Pierre Aubert Research Center, School of Medicine, Lille (France)

Prof. Jeroen Pasterkamp, Dept. of Translational Neuroscience, University Medical Center Utrecht (Netherlands)

Prof. Frank Zufall, Dept Of Physiology, University of Saarland School of Medicine, Homburg (Germany).

Main research funding (PI)

2004-2006, Compagnia di San Paolo, Neurotransplant

2004-2008, Ricerca Scientifica Applicata Regione Piemonte

2006-2009, COREP, Progetto PROTEINN (Progetti Tecnologici e di Innovazione)
2008, Sanità Regione Piemonte
2009-2012 Compagnia di San Paolo, Bando Programma Neuroscienze
2012-2015 PRIN - prot. 2010599KBR_010
2007-2017, University of Turin (ex 60%)

Scientific Societies:

Italian Society for Neuroscience
Unione Zoologica Italiana (UZI)
Gruppo Embriologico Italiano (GEI)

Editorial Activity

Topic Editor Frontiers: Adult neurogenesis twenty years later: physiological function versus brain repair (2015).

Associate Editor Frontiers in Neuroscience

Referee for:

European Journal of Neuroscience; Developmental Neurobiology; Hippocampus;
Journal of Comparative Neurology; Brain Research; Neurochemical Research;
Neuroscience; Frontiers in Neurogenesis.

Neurological Foundation of New Zealand
ANR the French National Research Agency
Expert Peer Reviewers for Italian Scientific Evaluation

Academic Activities

2008-today, Chair of "Comparative Anatomy". First cycle degree courses in "Natural Science", University of Turin.

2006-today, Chair of Comparative Neurobiology. Master Degree in " Evolution of Animal and Human Behavior", University of Turin.

2015-today, President of the Master Degree in Evolution of Animal and Human Behavior

Scientific Publications

ORCID: orcid.org/0000-0001-5502-6476
H-index (Scopus: 26; Web of Science: 25)
Citations:2544 (Scopus)

OBOTI L et al., Front Neuroanat 2017 11:44.
PIERUCCI F et al., Neuropharmacology 2017 116:328-342.
SCHELLINO R et al., SCI REP 2016 6:36063.
BONZANO S et al., FRONT NEUROSCI 2016 6;10:189.
PERETTO P, BONFANTI L, FRONT NEUROSCI 2015 6;9:71.
NATO G et al., DEVELOPMENT 2015 142:840-5.
FARINETTI A et al., NEUROSCI 2015 286:162-70.
LUZZATI F et al., DEVELOPMENT 2014 141:4065-75.
BONZANO S et al., EUR J NEUROSCI 2014 40:3450-7.
PERETTO P et al., NEURAL PLASTICITY 2014: 497657.
PERETTO P, BONFANTI L, FRONT NEUROSCI 2014 8:154.
OBOTI L, PERETTO P, FRONT NEUROSCI 2014 8:102.
BONFANTI L, PERETTO P, FRONT NEUROSCI 2012 6, 1.
BINI F et al., NEUROPHARMACOLOGY 2012 63, p. 524-537.

LUZZATI F et al., FRONT NEUROSCI 2011 70, p. 1-14.
BONFANTI L, PERETTO P, EUR J NEUROSCI 2011 34, 930-950.
OBOTI L et al., FRONT NEUROSCI 2011 5 (113), 1-14.
LUZZATI F et al., PLOS ONE, 2011 6 (9) e25088, 1-16.
OBOTI L et al., EUR J HISTOCHEM 2011 55:e35, 194-199.
BOVETTI S et al., PLOS ONE 2009 4(7).
OBOTI L et al EUR J NEUROSCI 2009 29, 679-692.
LUZZATI F. et al., CEREBRAL CORTEX 2009 19, 1028-1041.
PONTI G et al., PLOS ONE 2008 3:e2366, 1-19.
BOVETTI S et al., J MOL HISTOL 2007 38, 563-569.
MERLO G et al., J MOL HISTOL 2007 38, p. 347-358.
ZAGHETTO AA et al., J NEUROSCI 2007 27, 9757-9768.
DE MARCHIS S et al., J NEUROSCI 2007 27, 657-664.
GIACHINO C et al., J NEUROSCI 2007 145, 568-578.
BONFANTI L, PERETTO P, PROGR NEUROBIOL 2007 83, 24-36.
CHIARAMELLO S et al., EUR J NEUROSCI 2007 26, 1780-1790.
LUZZATI F et al., NEURODEG DIS 2007 4, 322-327.
PONTI G et al., DEV BIOL 2006 294, 168-180.
ZAGHETTO AA et al., INT J DEV NEUROSCI 2006 24, 584-585.
LUZZATI F et al., J NEUROSCI 2006 26, 609-621.
BONFANTI L et al., CURR TRENDS NEUROL 2005 1, 91-100.
GIACHINO C et al., J NEUROSCI 2005 25, 10105-10118.
PERETTO P et al., J COMP NEUROL 2005 487, 407-427.
PERETTO P et al. NEUROSCI 2004 128, 685-696.
ROCERI M et al. BIOL PSYCH 2004 55, 708-714.
GIACHINO C et al., J NEUROBIOL 2004 58, 493-502.
LUZZATI F et al., PNAS 2003 100, 13036-41.
GIACHINO C et al., ANN NEW YORK ACAD SCI 2003 1007, 335-339.
FASOLO A et al., CHEM SENSES 2002 27, 581-582.
PERETTO P et al., J COMP NEUROL 2002 451, 267-278.
BONFANTI L et al., ATTI DELLA ACCADEMIA NAZIONALE DEI LINCEI 2002 9. v. 13, 145-179.
PERETTO P et al., CELL TISSUE RESEARCH 2001 306, 385-389.
PERETTO P et al. PEPTIDES 2000 21, 1717-24.
DE MARCHIS S et al. BIOCHEM MOSCOW 2000 65, 969-980.
DE MARCHIS S et al. J COMP NEUROL 2000 426, 378-390.
PERETTO P et al., BRAIN RES BULL 1999 49, 221-243.
BONFANTI L et al. PROGR NEUROBIOL 1999 59, 333-353.
PERETTO P NEUROSCI 1998 85, 527-542.
CAMOLETTO P et al. NEUROREPORT, 1997 8, 2825-29.
BONFANTI L et al. NEUROSCI 1997 81, 489-502.
PERETTO P et al., BRAIN RES BULL 1997 42, 9-21.
DE MARCHIS S et al., NEUROSCI LETT 1997 237, 1-4.
DE MARCHIS S et al., MIN BIOTEC 1996. 8, 16-22.
TAROZZO G et al., PROC ROYAL SOC BIOL SCI 1995 262, 95-101.
TAROZZO G et al., ZOOL SCI 1995 12, 367-383.
TAROZZO G et al., ANN ENDOCRIN 1994 55, 249-254.

Books chapter

PERETTO P, PAREDES RG 2014, In: Mucignat-Caretta C., Neurobiology of chemical communication. Boca Raton (FL): CRC press. Chapter 13.

BONFANTI L PERETTO P 2012, in: Clark GJ. Anderson WT. Neurogenesis Research: New Developments. p. 95-114, New York: Nova Publishers.

PONTI G et al., 2011, in: Seki T.; Sawamoto K; Parent J.M.; Alvarez-Buylla A. Neurogenesis in the Adult Brain. vol. 1, p. 319-336, Tokyo:Springer.

LUZZATI F et al., 2008, in: Bonfanti L., Editor. Postnatal and Adult Neurogenesis in Mammals. p. 215-230, Trivandrum:Research Signpost.

PERETTO P, BONFANTI L 2008, in: Bonfanti L. Editor. Postnatal and Adult Neurogenesis in Mammals. p. 115-128, Trivandrum:Research Signpost (Biological Sciences).

BONFANTI L, PERETTO P 2002, in: H. Aldskogius; J. Fraher. Glial Interfaces In The Nervous System. P. 165-174, Amsterdam: IOS Press.