

CURRICULUM VITAE OF BICE CHINI, MD PhD



Personal data

Citizenship: Italian

Marital status: Married, two children

Languages: Italian, English and French

orcid.org/0000-0002-1686-284X

Scopus author ID:

Education

November 1987 M.D. cum laude, Medical School, Univ of Milan

1988-1992 PhD. in Biotechnology Applied to Pharmacology and Cellular and Molecular Biotechnologies Univ of Milan

Professional career

1992-1993 Research Associate The Salk Institute, La Jolla, USA

1993-1995 Research Associate CCIPE - CNRS/INSERM, Montpellier, France

Since 1995 Group leader at the CNR Institute of Neuroscience, Milan, Italy

Since 1997 CNR. Researcher and group leader at the CNR Institute of Neuroscience, Milan, Italy (Permanent position)

Since 2008 CNR "First Researcher"

Since 2019 CNR "Director of Research"

2014 National Scientific Habilitation - Full Professor in Biochemistry (05/E1)

2019 National Scientific Habilitation - Full Professor in Pharmacology (05/G1)

Grant support

1996 Telethon grant E.391 (Role: PI of monocentric project)

1996 Cariplo Foundation (Role: Collaborator, Univ. Milano)

1997 Italian Association for Cancer Research (AIRC) (Role: PI of monocentric project)

2000 Italian Ministry of Education and Scientific Research. Cofin grant (Role: Collaborator, Univ. of Milano-Bicocca)

Italian Ministry of Education and Scientific Research. Cofin grant (Role: Collaborator, Univ. of Milano-Bicocca)

2004 Italian Ministry of Education and Scientific Research. Cofin grant (Role: Collaborator, Univ. Milano)

Fondazione Cariplo (Role: Collaborator, Univ. Milano)

Italian Association for Cancer Research (AIRC). (Role: Collaborator, CNR)

2005 Italian Association for Cancer Research (AIRC) grant. (Role: PI of monocentric project)

2006 Fondazione Cariplo (Role: PI of Research Unit)

Italian Ministry of Education and Scientific Research. Cofin grant (Role: Collaborator, Univ Milano)

2008 CNR RSTL Development of "coupling specific" analogues to G-protein coupled receptors (Role: P.I.)

Cariplo Foundation (Role: Coordinator of multicenter project and PI of Research Unit)

2009 FIRB Italanonet (Role: PI of Research Unit)

2010 International cooperation project Regione Lombardia (Italy) Regione Languedoc Roussillon (France) TERDISMENTAL (Role: Collaborator, CNR-IN)

2011 Cariplo Foundation (Role: PI of Research Unit)

2012 Ministero della Salute (Role: PI of Research Unit)

Telethon Grant (Role: PI of monocentric project)

2016 Fritz Thyssen Foundation (Role: PI of Research Unit)

2019 Fritz Thyssen Foundation (Role: PI of Research Unit)

2019 Telethon Grant GGP1910 (role PI of research Unit)

Technology transfer and industrial activity

2011 Founding partner of "Proxentia s.r.l." spin off of the University of Milan

<http://www.proxentia.com/>

ProXentia realizes new concepts of analytical devices for rapid biomolecular and biochemical testing.

2015 Proxentia won a **SME INSTRUMENT HORIZON 2020**

EU contribution 1.563.485 euros

http://cordis.europa.eu/project/rcn/203337_en.html

Research topics: The research in my group is aimed at the development of new pharmacological tools targeting the human oxytocin receptors in brain disorders. Specific research topics include: 1). Neurobiology of oxytocin and its role in neurodevelopmental disorders, where my group contributed by characterizing the phenotype of Oxytocin receptor null mice and its underlying neurobiological defects (unbalance in the GABA switch, synaptic alterations) 2.) Molecular pharmacology oxytocin /vasopressin receptors, where my group contributed by i) studying the oxytocin receptors as prototypes of G-protein coupled receptors and in particular by identifying the conformational states underlying receptor activation and inactivation and receptor signaling and trafficking ii) developing new ligands i.e. functional selective and bivalent ligands. 3). Receptor signaling and trafficking by pharmacological, biochemical and confocal/video imaging analysis, where my group contributed to define the pathways of oxytocin receptor intracellular trafficking

Teaching activity - Professor on a contract

2002-2006	Pharmacology., Medical School, San Raffaele University, Milan
2004 -2005	Pharmacology, Biotechnology School, San Raffaele Univ, Milan
2004-2009	Pharmacogenomics, Faculty of Science, Univ of Milan
Since 2016	Pharmacology, Medical School, Humanitas University, Milan

Master student supervision at the University of Milan

18 students between 1998-2017

PhD tutor/supervisor at the University of Milan

5 students between 2005-2020

Partecipation in international PhD commette (France)

8 candidated between 2004-2020

Organization of courses, symposia and meetings

1995,1996,1997	Organizer and lecturer in the courses of the Group of cooperation in Biotechnology, Univ of Milan. Organizer of the session on "Structure and function of proteins" ABCD-SIBBM-SIMGBM
2000	Organizer of a cycle of seminars at Univ of Milan on "GPCRs: New functional and molecular aspects"
2001	Member of the organizing committee of the 4° World Congress on Neurohypophysial Hormones, Bordeaux, France Member of the organizing committee of the 5° World Congress on Neurohypophysial Hormones, Kyoto, Japan Member of the organizing committee of the 6° World Congress on Neurohypophysial Hormones, Denver, USA
2006	Organizer of the conference "New aspects of signalling in neuroendocrinology" Fondazione Ospedale Maggiore IRCCS-Milan
2007	Organizer of a cycle of seminars at the Univ of Milan on "BRET and FRET: new technologies for mapping receptor/G proteins interactions"
2009	Vice president of the organizing committee of the 1°st French-Italian and 36th Neuro-endocrine conference, Nice, France, 15-18 September 2009
2010	Co-chair del meeting ABCD "Membrane Trafficking and Organelle Biogenesis meeting" Certosa di Pontignano, 16-17 April 2010
2011	Co-chair of the session "Membrane Trafficking and Organelle Biogenesis", ABCD Congress 2011, Ravenna 8-10 September 2011
2012	Chair of the meeting ABCD "Membrane Trafficking and Organelle Biogenesis meeting", Bertinoro 20-21 April 2012 President of the organizing committee of the Biochemical Society and Monash University meeting "G-protein -coupled-receptors: from structural insights to functional mechanisms" Prato, Italy, 12-14 September 2012 Member of the organizing committee of the 10° World Congress on Neurohypophysial Hormones, Bristol, UK
2014	Co-chair of the Symposium "Oxytocin and vasopressin: anatomical and molecular pathways to modulate brain circuits and behavior ", 9th FENS Forum of Neuroscience, Milan 5-9 July 2014
2015	President of the organizing committee of the Biochemical Society and Monash University meeting "GPCRs: Beyond Structure Towards Therapy" Prato, Italy, 16-18 September 2015
2016	Member of the organizing committee of the 12° World Congress on Neurohypophysial Hormones, Mangaratiba, RJ, Brazil 2017
2019	Co-chair of the session "Developmental, molecular and cell biology of the oxytocin and vasopressin systems", 13 TH WCNH, Ein Gedi, Israel 8-11 April 2019 Chair of the session "Enlightening the social brain: oxytocin neurons, connections and functions" ECN Biennial Conference of Molecular mechanisms of regulation of the nervous system, Milan, Italy 1-10 September 2019

Lectures and oral presentations at meetings

1990	Presenter at the SIBBM meeting, Cortona
1992	Presenter at the 26th Congress of the Italian Pharmacological Society. Naples
1994	Presenter at the Hanseatic Endocrine Conference. Stade, Germany
1995	Presenter at the XXVII Congress of the Italian Society of Pharmacology Turin
1997	Presenter at the 2nd World Congress on Neurohypophysial Hormones, Montreal, Canada
1999	Presenter at the 3rd World Congress on Neurohypophysial Hormones, Edinburgh, UK
2002	Presenter at the ELSO Meeting, Nice, France Invited speaker at the 5th International Congress of Neuroendocrinology, Bristol, UK
2003	Presenter at the Euresco Conference "Microdomains, lipid rafts and caveolae" Tomar, Portugal Presenter at the 30th Congress of the Italian Society of Endocrinology (SIE), Milan Presenter at the 4° meeting of the Italian Group for the Cooperation in Neuroscience, Milan
2005	Invited speaker at the 1st meeting on Hypothalamic-Neurohypophysial diseases Florence, Italy, Invited speaker at the Gordon Conference "Molecular Pharmacology", Il Ciocco, Lucca, Italy Presenter at the XXVII Congress of the Italian Society of Pharmacology Naples, Italy Presenter at the APS Conference on Neurohypophyseal Hormones, Steamboat Springs, CO, USA. Invited speaker Biochemical Society Meeting Family resemblances? Ligand binding and activation of family A and family b GPCRs. Stevenage, UK. Invited speaker at the 2nd Wurzburger receptor symposium Receptor modulation by voltage. Wurzburg, Germany
2009	Invited speaker at the 8° World Congress on Neurohypophysial Hormones, Kitakyushu, Japan Invited speaker at FEPS 2009, Ljubljana, Slovenia

- 2012 Invited speaker at the 4th Conference of the Mediterranean Neuroscience Society, Istanbul, Turkey
Invited speaker at the Biochemical Society Meeting G-protein-coupled-receptors: from structural insights to functional Prato
- 2013 Invited speaker at the 10th World Congress on Neurohypophysial Hormones, WCNH, Bristol, UK
Invited speaker at the Gordon Conference "Molecular pharmacology", Il Ciocco, Lucca (Barga) Italy
- 2014 Invited speaker at the ECPN,
- 2015 Invited speaker at the Workshop "Autism Spectrum Disorders: developmental trajectories, neurobiological basis, treatment update" Siena. Italy
- 2016 Invited speaker at the symposium to honor G. Guillon. CNR-INSERM IGF Montpellier. France
Invited speaker at the 5th Annual meeting of the GDR3545 G protein-coupled-receptors, from physiology to drugs Tours, France
- Invited speaker at the AIRA Meeting, Rome, Italy
Invited Speaker at the CNR-IN retreat. Session 1 Physiology and biochemistry of behaviour and reward, Padova, Italy
- 2017 Invited speaker at 12th World Congress on Neurohypophysial Hormones (WCNH) Mangaratiba, Rio de Janeiro, Brazil
- 2018 Invited speaker at the 4th meeting on Hypothalamic-Neurohypophysial diseases, Siracusa, Italy
Presenter at the International School of Neuroscience "Understanding the Neuroregulatory Actions of Oxytocin and its Potential Clinical Applications", Ettore Majorana Foundation, Erice, Italy
- 2019 Presenter at the 1st International Conference "Perinatal Origins of Neuropsychiatric Disorders: from molecular mechanisms to therapeutic perspectives" – Palermo, Italy

Referee activity

Grant review activity for the National Science Foundation (USA), Wellcome Trust (UK), BBSRC (UK), MRC (UK) Prader Willi Foundation (USA), Prostate Cancer Foundation of Australia (Australia), MIUR (Italy), ANR (France), European commission FP7 People programme, the Netherlands organization for scientific research (NL).

Peer review activity PNAS, Nature Communications, Mol Psychiatry, Biol Psychiatry, Cerebral Cortex, Neuropsychopharmacology, J Cell Science, Biochemistry, Endocrinology, J Endocrinol, PlosOne, AJP Endocrinology and Metabolism, Mol Endocrinol, Exp Cell Res, FEBS Letters, Psychoneuroendocrinology, J Rec Sign Transd, Eur J Histochem, The European Journal of Pharmacology, Frontiers in Cellular Neuroscience, Frontiers in Endocrinology, Peptides, Schizophrenia Research.

Editor Associate editors of Frontiers in Neuroendocrinology

Memberships

Society for Neuroscience (SFN), European Society for neurochemistry (ESN), Italian Society of Cell Biology and Differentiation (ABCD) International Society for Neurochemistry (ICN)

Patents

- 2002 PCT International Publication Date: 12 December 2002; International Publication Number: WO 02/098447 A1
Title: Cytotoxic or radioactive conjugates able to bind to oxytocin receptors

Seminars

- 1995 Department of Pharmacology, University of Milan
- 1997 Department of Hystology and Embriology. University of Rome "La Sapienza"
ITBA, CNR, Milan
- 2002 Department of Experimental Medicine, University of Genova
- 2003 Department of Biological Science, Nagoja University, Japan
Department of Clinical Physiology, University of Florence, Italy.
University del Piemonte Orientale A. Avogadro, Novara.
IFOM, Milan.
- 2005 Medical School of Ohio, Toledo, USA
Department of Biomedical Sciences, Colorado State University Fort Collins, USA.
- 2010 Department of Anatomy and Histology. University of Bari.
DBSF, University of Insubria, Busto Arsizio, Varese, Italy
Department of Behavioural Neuroendocrinology, Institute of Zoology, University of Regensburg, Germany.
- 2011 IGF (Institut de Génomique Fonctionnelle) Dept. of Molecular Pharmacology, Montpellier. France.
The Molecular Neuroscience Forum seminar, The Weizmann Institute of Science Rehovot, Israel
CIP Centre for Integrative Physiology, University of Edinburgh, UK
- 2012 Laboratoire d'Innovation Thérapeutique UMR 7200 CNRS University of Strasbourg, France
Central Institute of Mental Health, Mannheim, Germany
- 2013 Centre de Neurosciences Cognitive, UMR 5229, CNRS Lyon, France
Centre de neurosciences psychiatriques (CNP) Département de psychiatrie Centre Hospitalier Universitaire Vaudois Lausanne, Switzerland
- 2014 INMED Lecture, Institut de Neurobiologie de la Méditerranée INSERM UMR901 Marseille, France
Charité-Universitätsmedizin Campus Virchow Klinikum Institut für Experimentelle Pädiatrische Endokrinologie Berlin, Germany
- 2016 College of Medicine and Life Science, The University of Toledo, USA
- 2017 Brain Research Institute, University of Zürich, Switzerland
- 2018 IRCCS Neuromed, Pozzilli, Italy
IGF (Institut de Génomique Fonctionnelle) Dept. of Molecular Pharmacology, Montpellier. France.

Bibliometric parameters (WOS)

Total publications 94; total citations 4197, h-index 39

Publications in peer reviewed journals

1. Ferretti AM, Usseglio S, Mondini S, Drago C, La Mattina R, **Chini B**, Verderio C, Leonzino M, Cagnoli C, Joshi P, Boraschi D, Italiani P, Li Y, Swartzwelter BJ, Sironi L, Gelosa P, Castiglioni L, Guerrini U, Ponti Towards bio-compatible magnetic nanoparticles: Immune-related effects, in-vitro internalization, and in-vivo bio-distribution of zwitterionic ferrite nanoparticles with unexpected renal clearance. *J Colloid Interface Sci.* 2021 Jan 15;582(Pt B):678-700. Social approach and social vigilance are differentially regulated by oxytocin receptors in the nucleus accumbens.
2. Williams AV, Duque-Wilckens N, Ramos-Maciel S, Campi KL, Bhela SK, Xu CK, Jackson K, **Chini B**, Pesavento PA, Trainor BC. Oxytocin Receptors in the Anteromedial Bed Nucleus of the Stria Terminalis Promote Stress-Induced Social Avoidance in Female California Mice *Neuropsychopharmacology.* 2020 Aug;45(9):1423-1430
3. Leonzino M., Ponzoni L, Braidà D, Gigliucci V, Busnelli M, Ceresini I, Duque-Wilckens N, Nishimori K, Trainor BC, Sala M, **Chini B** Impaired approach to novelty and striatal alterations in the oxytocin receptor deficient mouse model of autism *Horm Behaviour* 2019 Aug;114:104543.
4. Ferretti V, Maltese F, Contarini G, Nigro M, Bonavia A, Huang H, Gigliucci V, Morelli G, Scheggia D, Managò F, Castellani G, Lefevre A, Cancedda L, **Chini B**, Grinevich V, Papaleo F Oxytocin Signaling in the Central Amygdala Modulates Emotion Discrimination in Mice. *Curr Biol.* 2019 Jun 17;29(12):1938-1953.
5. **Chini B**. Expanding neuropeptide signalling by multiplying receptor functional states and sub-cellular locations *Cell and Tissue Research* 2019 Cell Tissue Res. 2019 Jan;375(1):49-56
6. Busnelli M, **Chini B**. Molecular Basis of Oxytocin Receptor Signalling in the Brain: What We Know and What We Need to Know. *Curr Top Behav Neurosci.* 2018;35:3-29.
7. Duque-Wilckens N, Steinman MQ, Busnelli M, **Chini B**, Yokoyama S, Pham M, Laredo SA, Hao R, Perkeybile AM, Minie VA, Tan PB, Bales KL, Trainor BC Oxytocin receptors in the anteromedial bed nucleus of the stria terminalis promote stress-induced social avoidance in females *Biol Psy* 2018; 83:203–213
8. **Chini B**, Verhage M, Grinevich V The action radius of oxytocin release in the mammalian CNS: from single vesicles to behavior *Trends Pharmacol Sci* 2017 38(11):982-991.
9. Sannino S, **Chini B**, Grinevich V. Lifespan oxytocin signaling: Maturation, flexibility, and stability in newborn, adolescent, and aged brain. *Dev Neurobiol.* 2017 Feb;77(2):158-168.
10. Galbusera A, De Felice A, Girardi S, Bassetto G, Maschietto M, Nishimori K, **Chini B**, Papaleo F, Vassanelli S, Gozzi A. Intranasal Oxytocin and Vasopressin Modulate Divergent Brainwide Functional Substrates. *Neuropsychopharmacology.* 2017 Jun;42(7):1420-1434.
11. Busnelli M, Kleinau G, Muttenthaler M, Stoev SB, Manning M, Bibic L, Howell LA, McCormick PJ, Di Lascio S, Braidà D, Sala M, Rovati GE, Bellini T, **Chini B**. Design and characterization of superpotent bivalent ligands targeting oxytocin receptor dimers via a channel-like structure. *J Med Chem.* 2016 Aug 11;59(15):7152-66.
12. Leonzino M, Busnelli M, Antonucci F, Verderio C, Mazzanti M, **Chini B**. Oxytocin receptor regulates the timing of neuronal GABA switch via the Cl⁻ transporter KCC2, *Cell reports.* 2016;15(1):96-103.
13. Eliava M, Melchior M, Knobloch-Bollmann S, Wahis J, da Silva M, Tang Y, Ciobanu AC, del Rio T, Roth LC, Althammer F, Chavant V, Goumon Y, Gruber T, Petit-Demouliere N, Busnelli M, **Chini B**, Tan L, Mitre M, Froemke RC, Chao MV, Giese G, Sprengel R, Kuner R, Poisbeau P, Seeburg PH, Stoop R, Charlet A, Grinevich V. A new population of parvocellular oxytocin neurons controlling magnocellular neuron activity and inflammatory pain processing, *Neuron* 2016 16;89(6):1291-304.
14. Busnelli M, Dagani J, de Girolamo G, Balestrieri M, Pini S, Saviotti FM, Scocco P, Sisti D, Rocchi M and **Chini B**. Unaltered oxytocin and vasopressin plasma levels in patients with schizophrenia after a 4-month daily treatment with intranasal oxytocin *J Neuroendocrinol*, 2016 Apr;28(4).
15. Passoni I, Leonzino M, Gigliucci V, **Chini B** and Busnelli M. Carbetocin is a functional selective Gq agonist that does not promote oxytocin receptor recycling after inducing β -arrestin-independent internalization. *J Neuroendocrinol* 2016 Apr;28(4).
16. Vacchini A, Busnelli M, **Chini B**, Locati M, Borroni EM. Analysis of G Protein and β -Arrestin Activation in Chemokine Receptors Signaling. *Methods Enzymol.* 2016;570:421-40.
17. Grinevich V, Knobloch-Bollmann S, Eliava M, Busnelli M, **Chini B**. Assembling the Puzzle: Pathways of Oxytocin Signaling in the Brain. *Biol Psychiatry*, 2016; 79(3):155-64.
18. Salina M, Giavazzi F, Lanfranco R, Ceccarello E, Sola L, Chiari M, **Chini B**, Cerbino R, Bellini T, Buscaglia M., Multi-Spot, Label-Free Immunoassay on Reflectionless Glass, *Biosens Bioelectron.* 2015 Dec 15;74:539-45.
19. Mondini S, Leonzino M, Drago C, Ferretti A, Usseglio S, Maggioni D, Tornese P, **Chini B**, Ponti A. Zwitterion-coated iron oxide nanoparticles: Surface chemistry and intracellular uptake by hepatocarcinoma (HepG2) cells. *Langmuir* 2015 7;31(26):7381-90.
20. Grinevich V, Desarménien M, **Chini B**, Tauber N, Muscatelli F. Ontogenesis of oxytocin pathways in the mammalian brain: late maturation and psychosocial disorders *Front Neuroanat.* 2015 Jan 20;8:164.
21. **Chini B**, Leonzino M, Braidà D, Sala M. Learning About Oxytocin: Pharmacologic and Behavioral Issues. *Biol Psychiatry.* 2014 Sep 1;76(5):360-6.
22. Gigliucci V, Leonzino M, Busnelli M, Luchetti A, Palladino VS, D'Amato FR, **Chini B**. Region specific up-regulation of oxytocin receptors in the opioid oprm1(-/-) mouse model of autism. *Front Pediatr.* 2014 Sep 1;2:91.
23. Giavazzi F, Salina M, Ceccarello E, Ilacqua A, Damin F, Sola L, Chiari M, **Chini B**, Cerbino R, Bellini T, Buscaglia M. A fast and simple label-free immunoassay based on a smartphone. *Biosens Bioelectron.* 2014 Aug 15;58:395-402.
24. Huang H, Michetti C, Busnelli M, Managò F, Sannino S, Scheggia D, Giancardo L, Sona D, Murino V, **Chini B**, Scattoni ML, Papaleo F. Chronic and Acute Intranasal Oxytocin Produce Divergent Social Effects in Mice. *Neuropsychopharmacology.* 2014 Apr;39(5):1102-14.

25. Busnelli M, Bulgheroni E, Manning M, Kleinau G, **Chini B**. Selective and potent agonists and antagonists for investigating the role of mouse oxytocin receptors. *J Pharmacol Exp Ther*. 2013 Aug;346(2):318-27.
26. Giavazzi F, Salina M, Cerbino R, Bassi M, Prosperi D, Ceccarello E, Damin F, Sola L, Rusnati M, Chiari M, **Chini B**, Bellini T, Buscaglia M. Multispot, label-free biodetection at a phantom plastic-water interface. *Proc Natl Acad Sci U S A*. 2013 Jun 4;110(23):9350-5.
27. Capra V, Busnelli M, Perenna A, Ambrosio M, Accomazzo MR, Galés C, **Chini B**, Rovati GE. Full and partial agonists of thromboxane prostanoid receptor unveil fine tuning of receptor superactive conformation and G protein activation. *PLoS One*. 2013;8(3):e60475.
28. Busnelli M, Peverelli E, Mantovani G, Spada A, **Chini B**. Deciphering the specific role of G(α i/o) isoforms: functional selective oxytocin ligands and somatostatin SST5 receptor mutants. *Biochem Soc Trans*. 2013 Feb 1;41(1):166-71.
29. **Chini B**, Parenti M, Poyner DR, Wheatley M. G-protein-coupled receptors: from structural insights to functional mechanisms. *Biochem Soc Trans*. 2013 Feb 1;41(1):135-6.
30. Busnelli M, Mauri M, Parenti M, **Chini B**. Analysis of GPCR dimerization using acceptor photobleaching resonance energy transfer techniques. *Methods Enzymol*. 2013;521:311-27.
31. Peverelli E, Busnelli M, Vitali E, Giardino E, Galés C, Lania AG, Beck-Peccoz P, **Chini B**, Mantovani G, Spada A. Specific roles of G(i) protein family members revealed by dissecting SST5 coupling in human pituitary cells. *J Cell Sci*. 2013 Jan 15;126(Pt 2):638-44.
32. Sala M, Braidà D, Donzelli A, Martucci R, Busnelli M, Bulgheroni E, Rubino T, Parolaro D, Nishimori K, **Chini B**. Mice heterozygous for the oxytocin receptor gene (*Oxtr*(+/-)) show impaired social behaviour but not increased aggression or cognitive inflexibility: evidence of a selective haploinsufficiency gene effect. *J Neuroendocrinol*. 2013 Feb;25(2):107-18.
33. Manning M, Misicka A, Olma A, Bankowski K, Stoev S, **Chini B**, Durroux T, Mouillac B, Corbani M, Guillon G. Oxytocin and vasopressin agonists and antagonists as research tools and potential therapeutics. *J Neuroendocrinol*. 2012 Apr;24(4):609-28. Review.
34. Busnelli M, Saulière A, Manning M, Bouvier M, Galés C, **Chini B**. Functional selective oxytocin-derived agonists discriminate between individual G protein family subtypes. *J Biol Chem*. 2012 Feb 3;287(6):3617-29.
35. Braidà D, Donzelli A, Martucci R, Capurro V, Busnelli M, **Chini B**, Sala M. Neurohypophyseal hormones manipulation modulate social and anxiety-related behavior in zebrafish. *Psychopharmacology* (Berl). 2012 Mar;220(2):319-3
36. Sala M, Braidà D, Lentini D, Busnelli M, Bulgheroni E, Capurro V, Finardi A, Donzelli A, Pattini L, Rubino T, Parolaro D, Nishimori K, Parenti M, **Chini B**. Pharmacological rescue of impaired cognitive flexibility, social deficits and increased aggression in the oxytocin receptor null mice, a neurobehavioral model of autism spectrum disorders. *Biol Psychiatry*. 2011 May 1;69(9):875-82.
37. Gravati M, Busnelli M, Bulgheroni E, Reversi A, Spaiardi P, Parenti M, Toselli M, **Chini B**. Dual modulation of inward rectifier potassium currents in olfactory neuronal cells by promiscuous G protein coupling of the oxytocin receptor. *J Neurochem* 2010. 114: 1424-1435.
38. Busnelli M, Rimoldi V, Viganò P, Persani L, Di Blasio AM, **Chini B**, Oxytocin-induced cell growth proliferation in human myometrial cells and leiomyomas, *Fertil Steril* 2010; 94(5):1869-74.
39. Conti F, Sertic S, Reversi A, Chini B Intracellular trafficking of the human oxytocin receptor: evidence of receptor recycling via a Rab4/Rab5 "short cycle". *Am J Physiol Endocrinol Metab* 2009; 296(3):E532-42.
40. Innamorati G, Giannone F, Guzzi F, Rovati GE, Accomazzo MR, Chini B, Bianchi E, Schiaffino MV, Tridente G, Parenti M. Heterotrimeric G proteins demonstrate differential sensitivity to beta-arrestin dependent desensitization. *Cell Signal*. 2009; 21(7):1135-42.
41. Chini B, Parenti M. G-protein-coupled receptors, cholesterol and palmitoylation: facts about fats. *J Mol Endocrinol*. 2009; 42(5):371-9.
42. **Chini B**, Manning M, Guillon G Affinity and efficacy of selective agonists and antagonists for vasopressin and oxytocin receptors: "an easy guide" to receptor pharmacology *Prog Brain Res*. 2008 170:513-7.
43. Manning M, Stoev S, **Chini B**, Durroux T, Mouillac B, Guillon G Peptide and nonpeptide agonists and antagonists for the vasopressin and oxytocin V1a, V1b, V2 and OT receptors: research tools and potential therapeutic agents *Prog Brain Res*. 2008; 170:473-512.
44. Cattaneo MG, **Chini B**, Vicentini M Oxytocin modulates migration and invasion in human endothelial cells. *Br. J. Pharmacol*, 2008, 153: 728-736.
45. Longaretti M, Marino G, **Chini B**, Jerome JW, Sacco R. (2007) Computational models in nano-bio-electronics: simulation of ionic transport in voltage operated channels. *J Nanoscience and Nanotechnology* , 2007, 7: 4571-4574
46. M. Longaretti, **B. Chini**, J.W. Jerome, R. Sacco. Electrochemical Modeling and Characterization of Voltage Operated Channels in Nano-Bio-Electronics. *Sensor Letters* 2007, 6: 49-56
47. **Chini B**. and Manning M. Agonist selectivity in the oxytocin/vasopressin receptor family: new insights and challenges. *Biochem. Soc. Trans*. 2007 Aug;35(Pt 4):737-41.
48. Reversi A, Rimoldi V, Brambillasca S., **Chini B**. Effects of cholesterol manipulation on the signaling of the human oxytocin receptor *Am J Physiol Regul Integr Comp Physiol*, 2006, **291**(4):R861-9
49. Reversi A, Cassoni P, **Chini B** Oxytocin receptor signaling in myoepithelial and cancer cells, *J Mammary Gland Biol Neoplasia* 2005, **10**(3):221-9. Review
50. Reversi A, Rimoldi V, Marrocco T, Cassoni P, Bussolati G, Parenti M, **Chini B**. The oxytocin receptor antagonist atosiban inhibits cell growth via a "biased agonist mechanism". *J Biol Chem.*, 2005, 280, 16311-8
51. **Chini B**, Parenti M. G-protein coupled receptors in lipid rafts and caveolae: how, when and why do they go there? *J Mol Endocrinol*. 2004 Apr; 32(2):325-38.
52. Cassoni P, Sapino A, Marrocco T, **Chini B**, Bussolati G. Oxytocin and oxytocin receptors in cancer cells and proliferation *J Neuroendocrinol*. 2004 Apr; 16(4):362-4
53. Rimoldi V., Reversi A., Taverna E., Rosa P., Francolini M., Cassoni P., Parenti M., **Chini B**. Oxytocin receptor elicits different EGFR/MAPK activation patterns depending on its localization in caveolin-1 enriched domains. *Oncogene*. 2003 Sep 4;22(38):6054-60.

54. **Chini B.**, Chinol M., Cassoni P., Reversi A., Papi S., Areces L., Paganelli G., Bussolati G. Improved radiotracing of oxytocin receptor-expressing tumours using the new [(111)In]-DOTA-Lys(8)-deamino-vasotocin analogue. *Br J Cancer*. 2003 Sep 1;89(5):930-6.
55. Guzzi F, Zanchetta D., Cassoni P., Guzzi V., Francolini M., Parenti M., **Chini B.** Localization of the human oxytocin receptor in caveolin-1 enriched domains turns the receptor-mediated inhibition of cell growth into a proliferative response. *Oncogene*. 2002 Mar 7;21(11):1658-67.
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