

## SCIENTIFIC PRODUCTION - PUBLICATIONS

*NMDA receptors elicit flux-independent intracellular  $Ca^{2+}$  signals via metabotropic glutamate receptors and flux-dependent nitric oxide release in human brain microvascular endothelial cells.*

Negri S, Faris P, Maniezzi C, Pellavio G, **Spaiardi P**, Botta L, Laforenza U, Biella G, Moccia DF.

*Cell Calcium*. 2021 Aug 17;99:102454. doi: 10.1016/j.ceca.2021.102454. Epub ahead of print. PMID: 34454368.

*Membrane Resonance in Pyramidal and GABAergic Neurons of the Mouse Perirhinal Cortex.*

Binini N, Talpo F, **Spaiardi P**, Maniezzi C, Pedrazzoli M, Raffin F, Mattiello N, Castagno AN, Masetto S, Yanagawa Y, Dickson CT, Ramat S, Toselli M, Biella GR.

*Front Cell Neurosci*. 2021 Jul 22;15:703407. doi: 10.3389/fncel.2021.703407. PMID: 34366789; PMCID: PMC8339929.

*Exocytosis in mouse vestibular Type II hair cells shows a high-order  $Ca^{2+}$  dependence that is independent of synaptotagmin-4.*

**Spaiardi P**, Marcotti W, Masetto S, Johnson SL.

*Physiol Rep*. 2020;8(14):e14509. doi:10.14814/phy2.14509

*Stem Cell-Derived Human Striatal Progenitors Innervate Striatal Targets and Alleviate Sensorimotor Deficit in a Rat Model of Huntington Disease*

Besusso D, Schellino R, Boido M, Belloli S, Parolisi R, Conforti P, Faedo A, Cernigoj M, Campus I, Laporta A, Dickinson Bocchi V, Murtaj V, Parmar M, **Spaiardi P**, Talpo F, Maniezzi C, Toselli MG, Biella G, Moresco RM, Vercelli A, Buffo A, Cattaneo E

*Stem Cell Reports*. 2020 May 12;14(5):876-891. doi: 10.1016/j.stemcr.2020.03.018. Epub 2020 Apr 16.

*Oxytocin Increases Phasic and Tonic GABAergic Transmission in CA1 Region of Mouse Hippocampus.*

Maniezzi C, Talpo F, **Spaiardi P**, Toselli M, Biella G.

*Front Cell Neurosci*. 2019 May 7;13:178. doi: 10.3389/fncel.2019.00178. eCollection 2019.

*$K^{+}$  accumulation and clearance in the calyx synaptic cleft of Type I mouse vestibular hair cells*

**Spaiardi P**, Tavazzani E, Manca M, Russo G, Prigioni I, Biella G, Giunta R, Johnson SL, Marcotti W, Masetto S

*Neuroscience*. 2019 doi: 10.1016/j.neuroscience.2019.11.028

*An allosteric gating model recapitulates the biophysical properties of  $I_{K,L}$  expressed in mouse vestibular type I hair cells.*

**Spaiardi P**, Tavazzani E, Manca M, Milesi V, Russo G, Prigioni I, Marcotti W, Magistretti J, Masetto S.

*J Physiol*. 2017 Nov 1;595(21):6735-6750. doi: 10.1113/JP274202. Epub 2017 Sep 24

*Distinct roles of  $Eps8$  in the maturation of cochlear and vestibular hair cells.*

Tavazzani E, **Spaiardi P**, Zampini V, Contini D, Manca M, Russo G, Prigioni I, Marcotti W, Masetto S.

*Neuroscience*. 2016 Jul 22;328:80-91. doi: 10.1016/j.neuroscience.2016.04.038. Epub 2016 Apr 27

*Elementary properties of  $Ca^{2+}$  channels and their influence on multivesicular release and phase-locking at auditory hair cell ribbon synapses.*

Magistretti J, **Spaiardi P**, Johnson SL, Masetto S.

*Front Cell Neurosci*. 2015 Apr 8;9:123. doi: 10.3389/fncel.2015.00123. eCollection 2015

*Glutamic acid decarboxylase 67 expression by a distinct population of mouse vestibular supporting cells.*

Tavazzani E, Tritto S, **Spaiardi P**, Botta L, Manca M, Prigioni I, Masetto S, Russo G.

*Front Cell Neurosci*. 2014 Dec 17;8:428. doi: 10.3389/fncel.2014.00428. eCollection 2014

*$Rac1$  and  $Rac3$  GTPases control synergistically the development of cortical and hippocampal GABAergic interneurons.*

Vaghi V, Pennucci R, Talpo F, Corbetta S, Montinaro V, Barone C, Croci L, **Spaiardi P**, Consalez GG, Biella G, de Curtis I.

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*Developmentally coordinated extrinsic signals drive human pluripotent stem cell differentiation toward authentic DARPP-32+ medium-sized spiny neurons.*

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*Development*. 2013 Jan 15;140(2):301-12

*Analysis of the noise associated to the muscarinic modulation of the mouse perirhinal cortex.*

**Spaiardi P.**; Talpo, F.; Toselli, M.; Biella, G.; Marinoni, A.; Savazzi, P.; Favalli, L.;  
in *Proc. IEEE Isabel*, 2010, pp. 1-5

*Dual modulation of inward rectifier potassium currents in olfactory neuronal cells by promiscuous G protein coupling of the oxytocin receptor.*

Gravati M, Busnelli M, Bulgheroni E, Reversi A, **Spaiardi P.**, Parenti M, Toselli M, Chini B.  
*J Neurochem.* 2010 Sep 1;114(5):1424-35. Epub 2010 Jun 14

*Functional interactions within the parahippocampal region revealed by voltage-sensitive dye imaging in the isolated guinea pig brain.*

Biella G, **Spaiardi P.**, Toselli M, de Curtis M, Gnatkovsky V.  
*J Neurophysiol.* 2010 Feb;103(2):725-32. Epub 2009 Nov 25.

*A fast transient outward current in layer II/III neurons of rat perirhinal cortex.*

Biella GR, **Spaiardi P.**, Jimenez-Moreno R, Magistretti J, Taglietti V, Toselli M.  
*Pflugers Arch.* 2007 Dec;455(3):515-25. Epub 2007 Jul 19