

## Complete list of publications

Antonioli L, Caputi V, Fornai M, Pellegrini C, Gentile D, Giron MC, Orso G, Bernardini N, Segnani C, Ippolito C, Csóka B, Haskó G, Németh ZH, Scarpignato C, Blandizzi C, Colucci R. Interplay between colonic inflammation and tachykininergic pathways in the onset of colonic dysmotility in a mouse model of diet-induced obesity. *Int J Obes (Lond)*. 2018 Aug 6. doi: 10.1038/s41366-018-0166-2. [Epub ahead of print]

Scheggia D, Mastrogiacomo R, Mereu M, Sannino S, Straub RE, Armando M, Managò F, Guadagna S, Piras F, Zhang F, Kleinman JE, Hyde TM, Kaalund SS, Pontillo M, Orso G, Caltagirone C, Borrelli E, De Luca MA, Vicari S, Weinberger DR, Spalletta G, Papaleo F. Variations in Dysbindin-1 are associated with cognitive response to antipsychotic drug treatment. *Nat Commun*. 2018 Jun 11;9(1):2265. doi: 10.1038/s41467-018-04711-w. Erratum in: *Nat Commun*. 2018 Aug 29;9(1):3560.

Antonioli L, Pellegrini C, Fornai M, Tirota E, Gentile D, Benvenuti L, Giron MC, Caputi V, Marsilio I, Orso G, Bernardini N, Segnani C, Ippolito C, Csóka B, Németh ZH, Haskó G, Scarpignato C, Blandizzi C, Colucci R. Colonic motor dysfunctions in a mouse model of high-fat diet-induced obesity: an involvement of A2B adenosine receptors. *Purinergic Signal*. 2017 Dec;13(4):497-510. doi: 10.1007/s11302-017-9577-0. Epub 2017 Aug 14.

Caputi V, Marsilio I, Filpa V, Cerantola S, Orso G, Bistoletti M, Paccagnella N, De Martin S, Montopoli M, Dall'Acqua S, Crema F, Di Gangi IM, Galuppini F, Lante I, Bogialli S, Rugge M, Debetto P, Giaroni C, Giron MC. Antibiotic-induced dysbiosis of the microbiota impairs gut neuromuscular function in juvenile mice. *Br J Pharmacol*. 2017 Oct;174(20):3623-3639. doi: 10.1111/bph.13965. Epub 2017 Aug 30.

Caputi V, Marsilio I, Cerantola S, Roozfarakh M, Lante I, Galuppini F, Rugge M, Napoli E, Giulivi C, Orso G, Giron MC. Toll-Like Receptor 4 Modulates Small Intestine Neuromuscular Function through Nitrergic and Purinergic Pathways. *Front Pharmacol*. 2017 Jun 8;8:350. doi: 10.3389/fphar.2017.00350. eCollection 2017.

Frigo G\*, Tramentozzi E\*, Orso G, Ceolotto G, Pagetta A, Stagni C, Menin C, Rosato A, Finotti P. Human IgGs induce synthesis and secretion of IgGs and neonatal Fc receptor in human umbilical vein endothelial cells. *Immunobiology*. 2016 Aug 4. pii: S0171-2985(16)30343-6. doi: 10.1016/j.imbio.2016.08.002. [Epub ahead of print] IF: 3.044

D'Amore C\*, Orso G\*, Fusi F, Pagano MA, Miotto G, Forgiarini A, De Martin S, Castellani G, Ribaldo G, Rennison D, Brimble MA, Hopkins B, Ferrarese A, Bova S. An NBD Derivative of the Selective Rat Toxicant Norbormide as a New Probe for Living Cell Imaging. *Front Pharmacol*. 2016 Sep 23;7:315.

Castellani G, Paliuri G, Orso G, Paccagnella N, D'Amore C, Facci L, Cima F, Caicci F, Palatini P, Bova S, De Martin S. An intracellular adrenomedullin system reduces IL-6 release via a NF- $\kappa$ B-mediated, cAMP-independent transcriptional mechanism in rat thymic epithelial cells. *Cytokine*. 2016 Dec;88:136-143. doi: 10.1016/j.cyto.2016.09.003.

Mushtaq Z, Choudhury SD, Gangwar SK, Orso G, Kumar V. Human Senataxin Modulates Structural Plasticity of the Neuromuscular Junction in *Drosophila* through a Neuronally Conserved TGF $\beta$  Signalling Pathway. *Neurodegener Dis*. 2016 May 21;16(5-6):324-336.

Catanzaro D, Gaude E, Orso G, Giordano C, Guzzo G, Rasola A, Ragazzi E, Caparrotta L, Frezza C, Montopoli M. Inhibition of glucose-6-phosphate dehydrogenase sensitizes cisplatin-resistant cells to death. *Oncotarget*. 2015 Aug 17.

Di Francesco L, Dovizio M, Trenti A, Marcantoni E, Moore A, O'Gaora P, McCarthy C, Tacconelli S, Bruno A, Alberti S, Gizzo S, Nardelli GB, Orso G, Belton O, Trevisi L, Dixon DA, Patrignani P. Dysregulated post-transcriptional control of COX-2 gene expression in gestational diabetic endothelial cells. *Br J Pharmacol*. 2015 Jul 3. doi: 10.1111/bph.13241.

Catanzaro D, Rancan S, Orso G, Dall'Acqua S, Brun P, Giron MC, Carrara M, Castagliuolo I, Ragazzi E, Caparrotta L, Montopoli. *Boswellia serrata* Preserves Intestinal Epithelial Barrier from Oxidative and Inflammatory Damage. *M.PLoS One*. 2015 May 8;10(5):e0125375. doi: 10.1371/journal.pone.0125375. eCollection 2015.

Papadopoulos C, Orso G, Mancuso G, Herholz M, Gumeni S, Tadepalle N, Jüngst C, Tzschichholz A, Schauss A, Höning S, Trifunovic A, Daga A, Rugarli EI. Spastin binds to lipid droplets and affects lipid metabolism. *PLoS Genet*. 2015 Apr 13;11(4):e1005149. doi: 10.1371/journal.pgen.1005149. eCollection 2015 Apr.

Antonioli L, Giron MC, Colucci R, Pellegrini C, Sacco D, Caputi V, Orso G, Tuccori M, Scarpignato C, Blandizzi C, Fornai M. Involvement of the P2X7 purinergic receptor in colonic motor dysfunction associated with bowel inflammation in rats. *PLoS One*. 2014 Dec 30;9(12):e116253. doi: 10.1371/journal.pone.0116253. eCollection 2014.

De Martin S, Paliuri G, Belloni A, Orso G, Zanarella E, Stellin G, Milanesi O, Basso G, Ruga EM, Frasson C, Gabbia D, Perdoncin G, Palatini P, Bova S. Expression and distribution of the adrenomedullin system in newborn human thymus. *PLoS One*. 2014 May 15;9(5):e97592. doi: 10.1371/journal.pone.0097592. eCollection 2014.

Trenti A, Grumati P, Cusinato F, Orso G, Bonaldo P, Trevisi L. Cardiac glycoside ouabain induces autophagic cell death in non-small cell lung cancer cells via a JNK-dependent decrease of Bcl-2. *Biochem Pharmacol*. 2014 May 15;89(2):197-209. doi: 10.1016/j.bcp.2014.02.021. Epub 2014 Mar 11.

Rossetto MG, Zanarella E, Orso G, Scorzeto M, Megighian A, Kumar V, Delgado-Escueta AV, Daga. Defhc1.1, a homologue of the juvenile myoclonic gene EFHC1, modulates architecture and basal activity of the neuromuscular junction in *Drosophila*. *Hum Mol Genet*. 2011 Nov 1;20(21):4248-57

Crimella C, Cantoni O, Guidarelli A, Vantaggiato C, Martinuzzi A, Fiorani M, Azzolini C, Orso G, Bresolin N, Bassi MT. A novel nonsense mutation in the APTX gene associated with delayed DNA single-strand break removal fails to enhance sensitivity to different genotoxic agents. *Hum Mutat*. 2011 Apr;32(4)

Orso G\*, Pendin D\*, Liu S, Tosetto J, Moss TJ, Faust JE, Micaroni M, Egorova A, Martinuzzi A, McNew JA, Daga A. Homotypic fusion of ER membranes requires the dynamin-like GTPase atlastin. *Nature*. 2009 Aug 20;460(7258):978-83. Erratum in: *Nature*. 2010 Apr 8;464(7290):942.

Tramentozzi E, Montopoli M, Orso G, Pagetta A, Caparrotta L, Frasson M, Brunati AM, Finotti P. Stable complexes formed by Grp94 with human IgG promoting angiogenic differentiation of HUVECs by a cytokine-like mechanism. *Mol Immunol*. 2008 Aug;45(13):3639-48.

Crippa F, Panzeri C, Martinuzzi A, Arnoldi A, Redaelli F, Tonelli A, Baschiroto C, Vazza G, Mostacciolo ML, Daga A, Orso G, Profice P, Trabacca A, D'Angelo MG, Comi GP, Galbiati S, Lamperti C, Bonato S, Pandolfo M, Meola G, Musumeci O, Toscano A, Trevisan CP, Bresolin N, Bassi MT. Eight novel mutations in SPG4 in a large sample of patients with hereditary spastic paraplegia. *Arch Neurol*. 2006 May;63(5):750-5. IF:

Orso G, Martinuzzi A, Rossetto MG, Sartori E, Feany M, Daga A. Disease-related phenotypes in a *Drosophila* model of hereditary spastic paraplegia are ameliorated by treatment with vinblastine. *J Clin Invest.* 2005 Nov;115(11):3026-34.

Trotta N\*, Orso G\*, Rossetto MG, Daga A, Broadie K. The hereditary spastic paraplegia gene, spastin, regulates microtubule stability to modulate synaptic structure and function. *Curr Biol.* 2004 Jul 13;14(13):1135-47

**\*co-author**