

CURRICULUM VITAE

Robert Nisticò

Anno di nascita: 19 Dicembre 1974

Luogo di nascita: Londra, Regno Unito

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Posizioni accademiche

E' stato **Ricercatore Universitario** di Farmacologia (SSD BIO/14), Facoltà di Farmacia e Scienze della Nutrizione e della Salute, Università della Calabria (2001-2006).

E' stato **Professore Associato** di Farmacologia (SSD BIO/14), Facoltà di Farmacia e Scienze della Nutrizione e della Salute, Università della Calabria (2006-2012).

Dal 2015 è **Professore Associato** di Farmacologia (SSD BIO/14), Dipartimento di Biologia, Università di Roma 'Tor vergata'.

Titoli di studio

Laurea in Medicina e Chirurgia con votazione di **110/110 e lode** (1993-1999) presso l'Università Cattolica del Sacro Cuore, Facoltà di Medicina e Chirurgia, Roma.

Diploma di specializzazione in Psichiatria con votazione **50/50 e lode** (2000-2003) presso l'Università Cattolica del Sacro Cuore, Facoltà di Medicina e Chirurgia, Roma.

Principali titoli, tappe e realizzazioni della carriera scientifica

Ha trascorso un periodo di tre anni (Ottobre 2002 - Settembre 2005) presso l'MRC Centre for Synaptic Plasticity, School of Medical Sciences, University of Bristol (UK) con cui mantiene ancora oggi rapporti di collaborazione scientifica.

Group leader (Settembre 2006 - Dicembre 2014) del laboratorio di *Neurofarmacologia Sperimentale*, IRCCS Fondazione S. Lucia, Roma.

Da Giugno 2015 è *Group leader* del laboratorio di *Pharmacology of Synaptic Disease*, Fondazione EBRI-Rita Levi Montalcini, Roma.

E' stato insignito della posizione accademica di '*Honorary Lecturer*' in Farmacia nel periodo Agosto 2012-Luglio 2015 presso la School of Pharmacy, Università di Nottingham (UK).

E' stato riconfermato della posizione accademica di '*Honorary Lecture*' in Farmacia nel periodo Agosto 2015-Luglio 2018 presso la School of Pharmacy, Università di Nottingham (UK).

Appartenenza a Società

Società Italiana di Farmacologia - SIF (dal 2001)

Società Italiana di Neuroscienze - SINS (dal 2002)

Società Americana di Neuroscienze - SFN (dal 2010)

Principali interessi di ricerca

- 1) Modulazione farmacologica della plasticità sinaptica in modelli sperimentali di malattia di Alzheimer e di altri disordini neurologici e psichiatrici.
- 2) Meccanismi neurofisiologici della plasticità sinaptica bidirezionale (LTP, LTD) su preparati di ippocampo *in vitro*.
- 3) Identificazione di nuovi meccanismi per la validazione di target per lo sviluppo di farmaci neuroprotettivi in modelli sperimentali di ischemia *in vitro* ed *in vivo*.

Attività editoriale

Membro dell'Editorial Board di Nature Scientific Reports, Frontiers in Pharmacology, Frontiers in Molecular Neuroscience, Pharmacological Research, NeuroMolecular Medicine, ISRN Stroke, World Journal of Pharmacology, World Journal of Methodology, Journal of Biological Regulators and Homeostatic Agents, European Journal of Neurodegenerative diseases, American Journal of Neuroprotection & Neuroregeneration, Journal of Pharmaceutics and Drug Development, European of Neurodegenerative diseases.

Attività organizzativa

2002-2008: 6th-11th Workshop on apoptosis in biology and medicine; University of Calabria.
2003: 1st Workshop on Bergamot: from nutrition to rational application, University of Calabria.
2004: 1st International Porto Pirog Conference on Advances in Neurosciences, Porto Pirog (VV).
2011: 1st Workshop on Metabolic requirements and changes in cell death and proliferation, Torello (CZ).
2011/2014: 7th and 8th International meeting on Metabotropic Glutamate Receptors, Taormina (ME).
2001-2015: Organizzatore di Simposi nell'ambito della Neurofarmacologia ai congressi nazionali della Società Italiana di Farmacologia (SIF).

Indici bibliometrici (Scopus, Dicembre 2015)

Author ID: 6701421675
Documents: 101
Total citations: 1630
Total Impact Factor: 435
h-index: 25

Pubblicazioni scientifiche

Autore o co-autore di oltre 100 pubblicazioni su riviste scientifiche internazionali sottoposte a peer-review, 7 capitoli di libro ed oltre 150 comunicazioni a Congressi nazionali e internazionali.

Pubblicazioni in extenso

1: Bagetta G, Corasaniti MT, Paoletti AM, Berliocchi L, **Nisticò R**, Giammarioli AM, Malorni W, Finazzi-Agrò A. HIV-1 gp120-induced apoptosis in the rat neocortex involves enhanced expression of cyclooxygenase type 2 (COX-2). *Biochem Biophys Res Commun*. 1998 Mar 27;244(3):819-24.

2: Bagetta G, Corasaniti MT, Berliocchi L, **Nisticò R**, Giammarioli AM, Malorni W, Aloe L, Finazzi-Agrò A. Involvement of interleukin-1beta in the mechanism of human immunodeficiency virus type 1 (HIV-1) recombinant protein gp120-induced apoptosis in the neocortex of rat. *Neuroscience*. 1999;89(4):1051-66.

3: Bagetta G, Rodinò P, Arabia A, Massoud R, Paoletti AM, **Nisticò R**, Passantino L, Preziosi P. Systemic administration of cocaine, given alone or in combination with sensory stimuli, differentially affects L-arginine-nitric oxide metabolism in discrete regions of the brain of rat. *Neurosci Lett*. 1999 May 14;266(3):153-6.

4: Maccarrone M, Bari M, Corasaniti MT, **Nisticò R**, Bagetta G, Finazzi-Agrò A. HIV-1 coat glycoprotein gp120 induces apoptosis in rat brain neocortex by deranging the arachidonate cascade in favor of prostanoids. *J Neurochem*. 2000 Jul;75(1):196-203.

5: Corasaniti MT, Strongoli MC, Piccirilli S, **Nisticò R**, Costa A, Bilotta A, Turano P, Finazzi-Agrò A, Bagetta G. Apoptosis induced by gp120 in the neocortex of rat involves enhanced expression of cyclooxygenase type 2 and is prevented by NMDA receptor antagonists and by the 21-aminosteroid U-74389G. *Biochem Biophys Res Commun*. 2000 Aug 11;274(3):664-9.

6: Nucci C, Piccirilli S, Rodinò P, **Nisticò R**, Grandinetti M, Cerulli L, Leist M, Nicotera P, Bagetta G. Apoptosis in the dorsal lateral geniculate nucleus after monocular deprivation involves glutamate signaling, NO production, and PARP activation. *Biochem Biophys Res Commun*. 2000 Nov 19;278(2):360-7.

- 7: Corasaniti MT, Turano P, Bilotta A, Malorni W, Stringaro AR, **Nisticò R**, Finazzi-Agrò A, Bagetta G. Evidence that increases of mitochondrial immunoreactive IL-1beta by HIV-1 gp120 implicate in situ cleavage of pro-IL-1beta in the neocortex of rat. *J Neurochem*. 2001 Aug;78(3):611-8.
- 8: Corasaniti MT, Piccirilli S, Paoletti A, **Nisticò R**, Stringaro A, Malorni W, Finazzi-Agrò A, Bagetta G. Evidence that the HIV-1 coat protein gp120 causes neuronal apoptosis in the neocortex of rat via a mechanism involving CXCR4 chemokine receptor. *Neurosci Lett*. 2001 Oct 19;312(2):67-70.
- 9: Corasaniti MT, Maccarrone M, **Nisticò R**, Malorni W, Rotiroti D, Bagetta G. Exploitation of the HIV-1 coat glycoprotein, gp120, in neurodegenerative studies in vivo. *J Neurochem*. 2001 Oct;79(1):1-8. Review
- 10: Mollace V, Muscoli C, Palma E, Iannone M, Granato T, **Nisticò R**, Rotiroti D. Central cardiovascular responses induced by interleukin 1 beta and tumor necrosis factor alpha infused into nucleus tractus solitarius, nucleus parabrachialis medialis and third cerebral ventricle of normotensive rats. *Neurosci Lett*. 2001 Nov 13;314(1-2):53-6.
- 11: Mollace V, Salvemini D, Riley DP, Muscoli C, Iannone M, Granato T, Masuelli L, Modesti A, Rotiroti D, **Nisticò R**, Bertoli A, Perno CF, Aquaro S. The contribution of oxidative stress in apoptosis of human-cultured astroglial cells induced by supernatants of HIV-1-infected macrophages. *J Leukoc Biol*. 2002 Jan;71(1):65-72.
- 12: Bagetta G, Paoletti AM, Leta A, Del Duca C, **Nisticò R**, Rotiroti D, Corasaniti MT. Abnormal expression of neuronal nitric oxide synthase triggers limbic seizures and hippocampal damage in rat. *Biochem Biophys Res Commun*. 2002 Feb 22;291(2):255-60.
- 13: Mollace V, Muscoli C, Iannone M, Palma E, Rotiroti D, Romeo F, **Nisticò R**, Salvemini D. Dexamethasone inhibits the inducible bioconversion of glyceryl trinitrate to nitric oxide. *J Cardiovasc Pharmacol*. 2002 Apr;39(4):544-51.
- 14: Nucci C, Piccirilli S, **Nisticò R**, Cerulli L, Bagetta G. Excitotoxic mechanisms of apoptosis in the mammalian visual system following monocular visual deprivation. *Pharmacol Toxicol*. 2002 Oct;91(4):153-7. Review.
- 15: Corasaniti MT, **Nisticò R**, Costa A, Rotiroti D, Bagetta G. The HIV-1 envelope protein, gp120, causes neuronal apoptosis in the neocortex of the adult rat: a useful experimental model to study neuroaids. *Funct Neurol*. 2001;16(4 Suppl):31-8. Review.
- 16: Mollace V, Iannone M, Muscoli C, Palma E, Granato T, Rispoli V, **Nisticò R**, Rotiroti D, Salvemini D. The role of oxidative stress in paraquat-induced neurotoxicity in rats: protection by non peptidyl superoxide dismutase mimetic. *Neurosci Lett*. 2003 Jan 2;335(3):163-6.
- 17: Nucci C, Morrone L, Rombolà L, **Nisticò R**, Piccirilli S, Cerulli L. Multifaceted roles of nitric oxide in the lateral geniculate nucleus: from visual signal transduction to neuronal apoptosis. *Toxicol Lett*. 2003 Apr 4;139(2-3):163-73. Review.
- 18: Nucci C, Piccirilli S, **Nisticò R**, Morrone LA, Cerulli L, Bagetta G. Apoptosis in the mechanisms of neuronal plasticity in the developing visual system. *Eur J Ophthalmol*. 2003 Apr;13 Suppl 3:S36-43. Review.
- 19: Mollace V, Iannone M, Muscoli C, Palma E, Granato T, Modesti A, **Nisticò R**, Rotiroti D, Salvemini D. The protective effect of M40401, a superoxide dismutase mimetic, on post-ischemic brain damage in Mongolian gerbils. *BMC Pharmacol*. 2003 Jun 16;3:8.
- 20: Lauri SE, Bortolotto ZA, **Nisticò R**, Bleakman D, Ornstein PL, Lodge D, Isaac JT, Collingridge GL. A role for Ca²⁺ stores in kainate receptor-dependent synaptic facilitation and LTP at mossy fiber synapses in the hippocampus. *Neuron*. 2003 Jul 17;39(2):327-41.
- 21: More JC*, **Nisticò R***, Dolman NP, Clarke VR, Alt AJ, Ogden AM, Buelens FP, Troop HM, Kelland EE, Pilato F, Bleakman D, Bortolotto ZA, Collingridge GL, Jane DE. Characterisation of UBP296: a novel, potent and selective kainate receptor antagonist. *Neuropharmacology*. 2004 Jul;47(1):46-64.

*equal contribution

- 22: Muscoli C, Sacco I, Alecce W, Palma E, **Nisticò R**, Costa N, Clementi F, Rotiroti D, Romeo F, Salvemini D, Mehta JL, Mollace V. The protective effect of superoxide dismutase mimetic M40401 on balloon injury-related neointima formation: role of the lectin-like oxidized low-density lipoprotein receptor-1. *J Pharmacol Exp Ther*. 2004 Oct;311(1):44-50. Epub 2004 Jun 25.
- 23: Muscoli C, Visalli V, Colica C, **Nisticò R**, Palma E, Costa N, Rotiroti D, Nisticò G, Mollace V. The effect of inflammatory stimuli on NMDA-related activation of glutamine synthase in human cultured astroglial cells. *Neurosci Lett*. 2005 Jan 20;373(3):184-8. Epub 2004 Nov 25.
- 24: Bortolotto ZA, **Nisticò R**, More JC, Jane DE, Collingridge GL. Kainate receptors and mossy fiber LTP. *Neurotoxicology*. 2005 Oct;26(5):769-77. Epub 2005 Jun 6. Review.
- 25: Dolman NP, Troop HM, More JC, Alt A, Knauss JL, **Nisticò R**, Jack S, Morley RM, Bortolotto ZA, Roberts PJ, Bleakman D, Collingridge GL, Jane DE. Synthesis and pharmacology of willardiine derivatives acting as antagonists of kainate receptors. *J Med Chem*. 2005 Dec 1;48(24):7867-81.
- 26: **Nisticò R**, Piccirilli S, Sebastianelli L, Nisticò G, Bernardi G, Mercuri NB. The blockade of K(+)-ATP channels has neuroprotective effects in an in vitro model of brain ischemia. *Int Rev Neurobiol*. 2007;82:383-95.
- 27: Errico F*, **Nisticò R***, Palma G, Federici M, Affuso A, Brillì E, Topo E, Centonze D, Bernardi G, Bozzi Y, D'Aniello A, Di Lauro R, Mercuri NB, Usiello A. Increased levels of d-aspartate in the hippocampus enhance LTP but do not facilitate cognitive flexibility. *Mol Cell Neurosci*. 2008 Feb;37(2):236-46.
*equal contribution
- 28: **Nisticò R**, Piccirilli S, Cucchiaroni ML, Armogida M, Guatteo E, Giampà C, Fusco FR, Bernardi G, Nisticò G, Mercuri NB. Neuroprotective effect of hydrogen peroxide on an in vitro model of brain ischaemia. *Br J Pharmacol*. 2008 Mar;153(5):1022-9.
- 29: Berretta N*, **Nisticò R***, Bernardi G, Mercuri NB. Synaptic plasticity in the basal ganglia: a similar code for physiological and pathological conditions. *Prog Neurobiol*. 2008 Apr;84(4):343-62.
*equal contribution
- 30: **Nisticò R**, Lista S, Nappi G, Cereda C, Mercuri NB. Potential therapeutic usefulness of hydrogen peroxide in conditions of brain ischemia. *Med Hypotheses*. 2008;71(1):162.
- 31: Giustizieri M, Armogida M, Berretta N, Federici M, Piccirilli S, Mercuri NB, **Nisticò R**. Differential effect of carbamazepine and oxcarbazepine on excitatory synaptic transmission in rat hippocampus. *Synapse*. 2008 Oct;62(10):783-9.
- 32: Dargan SL, Clarke VR, Alushin GM, Sherwood JL, **Nisticò R**, Bortolotto ZA, Doherty AJ, Lodge D, Mayer ML, Fitzjohn SM, Jane DE, Collingridge GL. ACET is a highly potent and specific kainate receptor antagonist: characterisation and effects on hippocampal mossy fibre function. *Neuropharmacology*. 2009 Jan;56(1):121-30.
- 33: Federici M, **Nisticò R**, Giustizieri M, Bernardi G, Mercuri NB. Ethanol enhances GABAB-mediated inhibitory postsynaptic transmission on rat midbrain dopaminergic neurons by facilitating GIRK currents. *Eur J Neurosci*. 2009 Apr;29(7):1369-77.
- 34: Amantea D, Marrone MC, **Nisticò R**, Federici M, Bagetta G, Bernardi G, Mercuri NB. Oxidative stress in stroke pathophysiology validation of hydrogen peroxide metabolism as a pharmacological target to afford neuroprotection. *Int Rev Neurobiol*. 2009;85:363-74.
- 35: **Nisticò R**, Dargan SL, Fitzjohn SM, Lodge D, Jane DE, Collingridge GL, Bortolotto ZA. GLUK1 receptor antagonists and hippocampal mossy fibre function. *Int Rev Neurobiol*. 2009;85C:13-27.
- 36: Armogida M, Giustizieri M, Zona C, Piccirilli S, **Nisticò R**, Mercuri NB. N-ethyl lidocaine (QX-314) protects striatal neurons against ischemia: an in vitro electrophysiological study. *Synapse*. 2009;64:161-168.

- 37: Errico F, Napolitano F, **Nisticò R**, Centonze D, Usiello A. D-aspartate: an atypical amino acid with neuromodulatory activity in mammals. *Rev Neurosci*. 2009;20(5-6):429-40.
- 38: Terrinoni A, Codispoti A, Serra V, Didona B, Bruno E, **Nisticò R**, Giustizieri M, Alessandrini M, Campione E, Melino G. Connexin 26 (GJB2) mutations, causing KID Syndrome, are associated with cell death due to calcium gating deregulation. *Biochem Biophys Res Commun*. 2010 Apr 16;394(4):909-14.
- 39: Middei S, Berretta N, Roberto A, Panico MB, Lista S, Bernardi G, Mercuri NB, Ammassari-Teule M, **Nisticò R**. Learning discloses abnormal structural and functional plasticity at hippocampal synapses in the APP23 mouse model of Alzheimer's disease. *Learn Mem*. 2010 Apr 19;17(5):236-40.
- 40: Napolitano F, Bonito-Oliva A, Federici M, Carta M, Errico F, Magara S, Martella G, **Nisticò R**, Centonze D, Pisani A, Gu HH, Mercuri NB, Usiello A. Role of aberrant striatal dopamine D1 receptor/cAMP/protein kinase A/DARPP32 signaling in the paradoxical calming effect of amphetamine. *J Neurosci*. 2010 Aug 18;30(33):11043-56.
- 41: Fazi B, Biancolella M, Mehdawy B, Corazzari M, Minella D, Blandini F, Moreno S, Nardacci R, **Nisticò R**, Sepe S, Novelli G, Piacentini M, Di Sano F. Characterization of gene expression induced by RTN-1C in human neuroblastoma cells and in mouse brain. *Neurobiol Dis*. 2010 Dec;40(3):634-44.
- 42: Balducci C, Mehdawy B, Mare L, Giuliani A, Lorenzini L, Sivilia S, Giardino L, Calzà L, Lanzillotta A, Sarnico I, Pizzi M, Usiello A, Viscomi AR, Ottonello S, Villetti G, Imbimbo BP, Nisticò G, Forloni G, **Nisticò R**. The γ -Secretase modulator CHF5074 restores memory and hippocampal synaptic plasticity in plaque-free Tg2576 mice. *J Alzheimers Dis*. 2011;24(4):799-816.
- 43: Lignitto L, Carlucci A, Sepe M, Stefan E, Cuomo O, **Nisticò R**, Scorziello A, Savoia C, Garbi C, Annunziato L, Feliciello A. Control of PKA stability and signalling by RING ligase praja2. *Nat Cell Biol*. 2011 Apr;13(4):412-22.
- 44: Molinaro P, Viggiano D, **Nisticò R**, Secondo A, Boscia F, Pannaccione A, Scorziello A, Mehdawy B, Sirabella R, Sokolow S, Herchuelz A, Di Renzo GF, Annunziato L. NCX3 knock-out mice display an impairment in hippocampal LTP and spatial learning and memory. *J Neurosci*. 2011 May 18;31(20):7312-7321.
- 45: **Nisticò R**, Mehdawy B, Piccirilli S, Mercuri NB. Paraquat- and rotenone-induced models of Parkinson's disease. *Int J Immunopathol Pharmacol* 2011 April-June;24(2):313-322.
- 46: Lipski J, **Nisticò R**, Berretta N, Guatteo E, Bernardi G, Mercuri NB. L-DOPA: a scapegoat for accelerated neurodegeneration in Parkinson's disease? *Prog Neurobiol*. 2011 Sep 1;94(4):389-407.
- 47: Armogida M, Spalloni A, Amantea D, Nutini M, Petrelli F, Longone P, Bagetta G, **Nisticò R**[#], Mercuri NB[#]. On the protective role of catalase against cerebral ischemia in vitro and in vivo. *Int J Immunopathol Pharmacol* 2011 Jul;24(3):735-747.
Authors share senior authorship
- 48: Errico F*, **Nisticò R***, Napolitano F, Florio T, Barbieri F, Bonito Oliva A, Russo C, Mercuri NB, Usiello A. Persistent increase of D-aspartate in D-aspartate oxidase mutant mice induces a precocious hippocampal age-dependent synaptic plasticity and spatial memory decay. *Neurobiol Aging*. 2011 Nov;32(11):2061-74.
*equal contribution
- 49: Errico F*, **Nisticò R***, Napolitano F, Astone D, Mazzola C, D'Aniello A, Mercuri NB, Usiello A. Increased D-aspartate brain content rescues hippocampal age-related synaptic plasticity deterioration of mice. *Neurobiol Aging*. 2011 Dec;32(12):2229-43.
*equal contribution
- 50: **Nisticò R**, Dargan SL, Amici M, Collingridge GL, Bortolotto ZA. Synergistic interactions between kainate and mGlu receptors regulate bouton Ca²⁺ signalling and mossy fibre LTP. *Sci Rep*. 2011;1:103.
- 51: Cerreto M, Mehdawy B, Ombrone D, **Nisticò R**, Ruoppolo M, Usiello A, Daniele A, Pastore L, Salvatore F. Reversal of metabolic and neurological symptoms of phenylketonuric mice treated with a PAH containing helper-dependent adenoviral vector. *Curr Gene Ther*. 2012 Feb 1;12(1):48-56.

- 52: Armogida M, **Nisticò R**, Mercuri NB. Therapeutic potential of targeting hydrogen peroxide metabolism in the treatment of brain ischemia. *Br J Pharmacol*. 2012 Feb 21;166:1211–1224.
- 53: **Nisticò R**, Cavallucci V, Piccinin S, Macri S, Pignatelli M, Mehdawy B, Laviola G, Mercuri NB, D'Amelio M. Insulin Receptor haploinsufficiency impairs long-term synaptic plasticity in the hippocampus. *Neuromolecular Med*. 2012 Jun 3. Doi: 10.1007/s12017-012-8184-z.
- 54: **Nisticò R**, Collingridge GL. The synaptic basis of Alzheimer's disease. *Eur J Neurodegen Dis*. 2012 Apr; 1(1):21-33.
- 55: Errico F, Napolitano F, **Nisticò R**, Usiello A. New insights on the role of D-aspartate in the mammalian brain. *Amino Acids*. 2012 Nov;43(5):1861-71.
- 56: **Nisticò R**, Bolanos JP, De Sarro GB. Editorial: Integrating molecular mechanisms with synaptic plasticity in neurological disease. *Mol Neurobiol*. 2012 Dec;46(3):545-546.
- 57: **Nisticò R**, Pignatelli M, Piccinin S, Mercuri NB, Collingridge G. Targeting synaptic dysfunction in Alzheimer's disease therapy. *Mol Neurobiol*. 2012 Dec;46(3):572-587.
- 58: La Rosa LR, Matrone C, Ferraina C, Panico MB, Piccirilli S, Di Certo MG, Strimpakos G, Mercuri NB, Calissano P, D'Amelio M, **Nisticò R**. Age-related changes of hippocampal synaptic plasticity in A β PP-null mice are restored by NGF through p75^{NTR}. *J Alzheimers Dis*. 2013 Jan 1;33(1):265-72.
- 59: **Nisticò R**, Mango D, Mandolesi G, Piccinin S, Berretta N, Pignatelli M, Feligioni M, Musella A, Gentile A, Mori F, Bernardi G, Nicoletti F, Mercuri NB, Centonze D. Inflammation subverts hippocampal synaptic plasticity in experimental multiple sclerosis. *PLoS ONE* 8(1): e54666. doi:10.1371/journal.pone.0054666
- 60: Pignatelli M, Vollmayr B, Richter SH, Middei S, Matrisciano F, Molinaro G, Nasca C, Battaglia G, Ammassari-Teule M, Feligioni M, **Nisticò R**, Nicoletti F, Gass P. Enhanced mGlu5 receptor dependent long-term depression at the Schaffer collateral-CA1 synapse of congenitally learned helpless rats. *Neuropharmacology*. 2013 Mar;66:339-47.
- 61: Rispoli V, Ragusa S, **Nisticò R**, Marra R, Russo E, Leo A, Felicità V, Rotiroti D. Huperzine A Restores Cortico-Hippocampal Functional Connectivity after Bilateral AMPA Lesion of the Nucleus Basalis of Meynert. *J Alzheimers Dis*. 2013 Jan 1;35(4):833-46.
- 62: Tiveron C, Fasulo L, Capsoni S, Malerba F, Marinelli S, Paoletti F, Piccinin S, Scardigli R, Amato G, Brandi R, Capelli P, D'Aguzzo S, Florenzano F, La Regina F, Lecci A, Manca A, Meli G, Pistillo L, Berretta N, **Nisticò R**, Pavone F, Cattaneo A. ProNGF/NGF imbalance triggers neurodegeneration and spontaneous epileptic-like discharges in transgenic mice. *Cell Death Differ*. 2013 Aug;20(8):1017-30.
- 63: Cavallucci V, Berretta N, Nobili A, **Nisticò R**, Mercuri NB, D'Amelio M. Calcineurin inhibition rescues early synaptic plasticity deficits in a mouse model of Alzheimer's disease. *Neuromolecular Med*. 2013 Sep;15(3):541-8.
- 64: Federici M, Latagliata EC, Rizzo FR, Ledonne A, Gu HH, Romigi A, **Nisticò R**, Puglisi-Allegra S, Mercuri NB. Electrophysiological and amperometric evidence that modafinil blocks the dopamine uptake transporter to induce behavioral activation. *Neuroscience*. 2013 Nov 12;252C:118-124.
- 65: Fuzzati-Armentero MT, Ghezzi C, **Nisticò R**, Oda A, Blandini F. Single or combined treatment with l-DOPA and quinpirole differentially modulate expression and phosphorylation of key regulatory kinases in neuroblastoma cells. *Neurosci Lett*. 2013 Sep 27;552C:168-173.
- 66: Bonito-Oliva A, Pignatelli M, Spigolon G, Yoshitake T, Seiler S, Longo F, Piccinin S, Kehr J, Mercuri NB, **Nisticò R**, Fisone G. Cognitive impairment and dentate gyrus synaptic dysfunction in experimental parkinsonism. *Biol Psychiatry*. 2013 Mar 28. doi:pii: S0006-3223(13)00183-2.
- 67: Mango D, Bonito-Oliva A, Ledonne A, **Nisticò R**, Castelli V, Giorgi M, Sancesario G, Fisone G, Berretta N, Mercuri NB. Phosphodiesterase 10A controls D1-mediated facilitation of GABA release from striato-

- nigral projections under normal and dopamine-depleted conditions. *Neuropharmacology*. 2014 Jan;76 Pt A:127-36.
- 68: Mori F*, **Nisticò R***, Mandolesi G, Piccinin S, Mango D, Kusayanagi H, Berretta N, Bergami A, Gentile A, Musella A, Nicoletti CG, Nicoletti F, Buttari F, Mercuri NB, Martino G, Furlan R, Centonze D. Interleukin-1beta Promotes Long-Term Potentiation in Patients with Multiple Sclerosis. *Neuromolecular Med*. 2014 Mar;16(1):38-51.*equal contribution
- 69: Feligioni M, **Nisticò R**. SUMO: a (oxidative) stressed protein. *Neuromolecular Med*. 2013 Dec;15(4):707-19.
- 70: Iacovelli L, Feligioni M, **Nisticò R**, Nicoletti F, De Blasi A. Selective regulation of recombinantly expressed mGlu7 metabotropic glutamate receptors by G protein-coupled receptor kinases and arrestins. *Neuropharmacology*. 2013 Oct 19;77C:303-312.
- 71: D'Amelio M, **Nisticò R**. Editorial: Targeting synaptic dysfunction and neural connectivity in neurological and psychiatric disorders. *Curr Pharm Des*. 2013;19(36):6391-2.
- 72: Pignatelli M, Feligioni M, Piccinin S, Molinaro G, Nicoletti F, **Nisticò R**. Synaptic plasticity as a therapeutic target in the treatment of autism-related single-gene disorders. *Curr Pharm Des*. 2013;19(36):6480-90.
- 73: Feligioni M, Mattson MP, **Nisticò R**. SUMOylation in Neuroplasticity and Neurological Disorders. *Neuromolecular Med*. 2013 Dec;15(4):707-19.
- 74: Novakovic D, Feligioni M, Scaccianoce S, Caruso A, Piccinin S, Schepisi C, Errico F, Mercuri NB, Nicoletti F, **Nisticò R**. Profile of gantenerumab and its potential in the treatment of Alzheimer's disease. *Drug Des Devel Ther*. 2013 Nov 13;7:1359-64.
- 75: Mori D, Rossi S, Piccinin S, Motta C, Mango D, Kusayanagi H, Bergami A, Studer V, Nicoletti C, Buttari F, Barbieri F, Mercuri NB, Martino G, Furlan R, **Nisticò R**, Centonze D. Synaptic plasticity and PDGF signaling defects underlie clinical progression in Multiple Sclerosis. *J Neurosci*. 2013 Dec 4;33(49):19112-9.
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