

## Publications

Dr Nisticò is author or co-author of 116 in extenso papers (PubMed source) in international indexed journals, 8 book chapters and over 120 abstracts of communications at national and international meetings.

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 cyclo-oxygenase 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.

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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.

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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.

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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.

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20: Lauri SE, Bortolotto ZA, Nisticò R, Bleakman D, Ornstein PL, Lodge D, Isaac JT, Collingridge GL. A role for Ca<sup>2+</sup> stores in kainate receptor-dependent synaptic facilitation and LTP at mossy fiber synapses in the hippocampus. *Neuron*. 2003 Jul 17;39(2):327-41.

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- 23: Muscoli C, Visalli V, Colica C, Nisticò R, Palma E, Costa N, Rotiroli 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.
- 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.
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- 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.
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- 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.
- 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.
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- 35: Nisticò R, Dargan SL, Fitzjohn SM, Lodge D, Jane DE, Collingridge GL, Bortolotto ZA.

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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.

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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.

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- 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.
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- 67: 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.
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