

Dott Carmela Conte



Topics

- Study of the pathogenic mechanisms involved in the neurodegenerative process, with particular reference to Parkinson's disease: animal and cellular models for defining the molecular mechanisms that underlying the neuronal death
- Study of the therapeutic efficacy of novel co-drugs in which the L-Dopa is covalently linked to molecules with antioxidant and neuroprotective properties
- Study of selenorganic compound in cellular and animal model of neurodegeneratio
- Identification of diagnostic/prognostic biomarkers of neurodegenerative diseases in tissues and biological fluids
- Role of toll-like receptor 4 in the pathogenesis of Parkinson's disease

Cooperations

Pharmaceutical chemistry- Department of Pharmaceutical Sciences – University of Perugia

Organic Chemistry- Department of Pharmaceutical Sciences - University of Perugia

Applied Biology - Department of Pharmaceutical Sciences - University of Perugia

General Pathology – Department of Experimental Medicine - University of Perugia

Papers 2009-2013

- 1) Minelli A, Bellezza I, Conte C, Culig Z Oxidative stress-related aging: a role for prostate cancer? *Biochim Biophys Acta*. 2009 Apr;1795(2):83-91. Review [I.F.9.380]
- 2) Minelli A, Bellezza I, Tucci A, Rambotti M G, Conte C, Culig Z Differential involvement of reactive oxygen species and nucleoside transporters in cytotoxicity induced by two adenosine analogues in human prostate cancer cells *Prostate* 2009 Apr 1;69(5):538-47 [I.F. 3.485]
- 3) Conte C, Grottelli S, Prudenzi E, Bellezza I, Fredholm BB, Minelli A. A1 and A3

adenosine receptors alters glutathione status in an organ-specific manner and influence the changes after inhibition of glutamylcysteine ligase. *Free Radical Research* 2009 Mar;43(3):304-11 [I.F.2.878]

4) Minelli A, Conte C, Grottelli S, Bellezza I, Emiliani C, Bolaños JP. Cyclo (His-Pro) upregulates heme oxygenase 1 via activation of Nrf2-ARE signalling. *J Neurochem.* 2009 Sep 7. [I.F. 4.125]

5) Marinucci L, Balloni S, Bodo M, Carinci F, Pezzetti F, Stabellini G, Conte C, Lumare E. (Patterns of some extracellular matrix gene expression are similar in cells from cleft lip-palate patients and in human palatal fibroblasts exposed to diazepam in culture. *Toxicology.* 2009 Mar 4;257(1-2):10-6. [I.F. 3.681]

6) Mariucci G, Villarini M, Moretti M, Taha E, Conte C, Minelli A, Aristei C, Ambrosini MV Brain DNA damage and 70-kDa heat shock protein expression in CD1 mice exposed to extremely low frequency magnetic fields. *Int J Radiat Biol.* 2010 Aug;86(8):701-10.[I.F. 3.485]

7) Minelli A, Conte C, Prudenzi E, Cacciatore I, Cornacchia C, Taha E, Pinnen F. N-acetyl-L-methionyl-L-Dopa-methyl ester as a dual acting drug that relieves L-Dopa-induced oxidative toxicity. *Free Radic Biol Med.* 2010 Jul 1;49(1):31-9. [I.F.5.423]

8) Minelli A., Conte C., Cacciatore I., Roscini L., Cornacchia C., Cardinali G., Pinnen F. In vivo modulation of the Nrf2-NF-B systems by L-Dopa bound to the Gly-Pro-Glu peptide. *Aminoacid* 2012 Jan 5 vol 43, p1359-1367[I.F. 3.248]

Posters and oral communications 2009-2013

1) I. Bellezza, A. Tucci, C. Conte, A. Floridi, F. Galli, A. Minelli. "Alpha-tocopheryl succinate induces adaptive response via Nrf2 activation by increasing cellular glutathione" VESS, Rome, Italy, 26 August 2009

2) C. Conte, S. Grottelli, I. Bellezza, A. Minelli and J.P. Bolanos Up-regulation of antioxidant defence by cyclo(His-Pro) through Nrf2 activation. In: *Journal of Neurochemistry* Vol 110 p.5. Leipzig, Germany, 11-14 Luglio, 2009

3) A. Minelli, C. Conte, S. Grottelli, I. Bellezza and J.P. Bolanos. Cyclo(His-Pro) up regulates antioxidant cellular defence through Nrf2 activation. *International Symposium on the pathophysiology of reactive oxygen and nitrogen species.* Salamanca, Spain, May 19-21, 2010.

4) C. Conte, E. Prudenzi, I. Cacciatore, F. Pinnen, A. Minelli. N-Acetyl-L-Methionyl-L-Dopa-Methyl Ester as drug that relieves L-Dopa-induced oxidative stress. *International Symposium on the pathophysiology of reactive oxygen and nitrogen species.* Salamanca, Spain, May 19-21, 2010.

Teaching activity 2013-2014

2013-2014 Teaching of "*Molecular Biology*" for degree program in "Chemistry and Drug Technologies", Department of Pharmaceutical Sciences, University of Perugia

2013-2014 Supplementary teaching activity for the course of "*Molecular Biology*" for degree program in "Chemistry and Drug Technologies", Department of Pharmaceutical Sciences, University of Perugia

2013-2014 Supplementary teaching activity for the course of "*General and Systematic Biochemistry*" for degree program in "Pharmacy", Department of Pharmaceutica Sciences University of Perugia

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