

CURRICULUM VITAE

Dati personali

Cognome e nome: NASUTI CINZIA CARLA

Recapito telefonico: 3493661934

E-mail: cinzia.nasuti@unicam.it

Linee di ricerca

- Studi su modelli animali dei meccanismi alla base delle neurodegenerazioni, individuazione di markers precoci correlati all'insorgenza delle patologie e screening di farmaci ad attività neuroprotettiva.
- Studio delle alterazioni sullo sviluppo neurocomportamentale del ratto esposto a residui di pesticidi in età neonatale e studio dei geni implicati nello sviluppo della patologia.

Pubblicazioni.

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- 2) R. Gabbianelli, G. Falcioni, C. Nasuti, F. Cantalamessa. Cypermethrin-induced plasma membrane perturbation on erythrocytes from rats: reduction of fluidity in the hydrophobic core and in glutathione peroxidase activity. *Toxicology* (2002) 175: 91-101.
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- 5) C. Nasuti, F. Cantalamessa. Hypcholesterolemic activity of calcic and magnesic-sulphate-sulphurous spring mineral water in the rat. *Nutrition Research* (2003) 23 (6): 775-789.
- 6) C. Nasuti, F. Cantalamessa, E. Grandi. Effetti dell'acqua "San Giovanni" sulla funzionalità epatica del ratto ipercolesterolemico. *Medicina Clinica e Termale* (2003) 52: 441-452.
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- 8) R. Gabbianelli, C. Nasuti, G. Falcioni, F. Cantalamessa. Erythrocyte plasma membrane perturbations in rats fed cholesterol-rich diet: effect of drinking with sulphurous mineral water. *Ann. Nutr. Metab.* (2005) 49: 9-15.
- 9) G. Gioia Lobbia, M. Pellei, C. Santini, G. Falcioni, R. Gabbianelli, F. Cantalamessa, C. Nasuti, Di Prinzio, M. Syntesis, spectroscopic characterization (IR, 1H and 119S NMR, electrospray mass spectrometry) and toxicity of new organotin (IV) complexes with N,N',O- and N,N',S- scorpionate ligands. *Appl. Organometal. Chem.* (2005) 19: 583-589.
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- 11) C. Nasuti, R. Gabbianelli, G. Falcioni, F. Cantalamessa. Antioxidative and gastroprotective activities of anti-inflammatory formulations derived from chestnut honey in rats. *Nutrition Research* (2006) 26: 130-137.
- 12) P. Sossai, C. Nasuti, F. Cantalamessa. Are herbs always good for you? A case of paralytic ileum using a herbal tisane. *Phytotherapy Research* (2007) 21: 587-588.
- 13) C. Nasuti, F. Cantalamessa, C.J. Daly, J.C. McGrath. Alterations in rabbit aorta induced by types I and II pyrethyroids. *Environmental Toxicology and Pharmacology* (2007) 23: 250-253.
- 14) C. Nasuti, R. Gabbianelli, M.L. Falcioni, A. Di Stefano, P. Sozio, F. Cantalamessa. Dopaminergic system modulation, behavioural changes, and oxidative stress after neonatal administration of pyrethyroids. *Toxicology* (2007) 229: 194-205.
- 15) F. Pinnen, I. Cacciatore, C. Cornacchia, P. Sozio, A. Iannitelli, M. Costa, I. Pecci, C. Nasuti, F. Cantalamessa, A. Di Stefano. Synthesis and study of L-dopa-glutathione codrugs as new anti-parkinson agents with free radical scavenging properties. *J. Med. Chem.* (2007) 47: 2506-2515.
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- 22) P. Sozio, E. D'Aurizio, A. Iannitelli, A. Cataldi, S. Zara, F. Cantalamessa, C. Nasuti, A. Di Stefano. Ibuprofen and lipoic acid diamides as potential codrugs with neuroprotective activity. *Archiv. Der Pharmazie.* (2010) 343: 133-142.
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- 24) A. Di Stefano, P. Sozio, L.S. Cerasa, A. Iannitelli, A. Cataldi, S. Zara, G. Giorgioni, C. Nasuti. Ibuprofen and lipoic acid diamide as co-drugs with neuroprotective activity: pharmacological properties, and effects in AB-amyloid (1-40) infused Alzheimer disease rat model. *Int. J. Immunopathol. Pharmacol.* (2010) 23 (2): 589-599.
- 25) M.S. Vadhana, C. Nasuti, R. Gabbianelli. Purine bases oxidation and repair following permethrin insecticide treatment in rat heart cells. *Cardiovasc. Toxicol.* (2010) 10(3): 199-207.
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- 47) C. Nasuti, P. Fattoretti, M. Carloni, D. Fedeli, M. Ubaldi, R. Ciccocioppo, R. Gabbianelli. Neonatal exposure to permethrin pesticide causes lifelong fear and spatial learning deficits and alters hippocampal morphology of synapses. *J. Neurodev. Disord.* (2014) 29;6(1): 7.
- 48) M. Carloni, D. Fedeli, C. Nasuti, N. Sponsiello, R. Gabbianelli. Implications of dietary leucine on muscle mTOR gene expression and redox status in rats following high intensity effort. *Current Nutrition & Food Science.* (2014) 10: 288-293.
- 49) R. Gabbianelli, M. Carloni, F. Marmocchi, C. Nasuti, D. Fedeli, E. Laudadio, L. Massaccesi, R. Galeazzi. Permethrin and its metabolites affects Cu/Zn Superoxide conformation: fluorescence and in silico evidences. *MOLECULAR BIOSYSTEMS* (2015) 11: 208-217.
- 50) L.O. Ayanwuyi, S. Stopponi, M. Ubaldi, A. Cippitelli, C. Nasuti, R. Damadzic, M. Heilig, J. Schank, K. Cheng, K.C. Rice, R. Ciccocioppo. Neurokinin 1 receptor blockade in the medial amygdala attenuates alcohol drinking in rats with innate anxiety but not in Wistar rats. *Br. J. Pharmacol.* (2015) 172(21): 5136-46.
- 51) M. Ubaldi, F. Del Bello, E. Domi, M. Pigini, C. Nasuti. Investigation of allyphenyline efficacy in the treatment of alcohol withdrawal symptoms. *European Journal of Pharmacology* (2015) 760: 122-8.
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- 53) C. Nasuti, M.M. Coman, R.A. Olek, D. Fiorini, M.C. Verdenelli, C. Cecchini, S. Silvi, D. Fedeli, R. Gabbianelli. Changes on fecal microbiota in rats exposed to permethrin during postnatal development. *Environ. Sci. Pollut. Res. Int.* (2016) 23(11): 10930-7.
- 54) S. Vincenzetti, C. Nasuti, D. Fedeli, M. Ricciutelli, S. Pucciarelli, R. Gabbianelli. Proteomic analysis for early neurodegenerative biomarker detection in an animal model. *Biochimie* (2016) 121: 79-86.

- 55) V. Domingues, C. Nasuti, M. Piangerelli, L. Correia-Sá, A. Ghezzo, M. Marini, P. Abruzzo, P. Visconti, M. Giustozzi, G. Rossi, R. Gabbianelli. Pyrethroid pesticide metabolite in urine and microelements in hair of children affected by autism spectrum disorders: A Preliminary Investigation. *Int. J. Environ. Res. Public Health* (2016) 13(4): 388.
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- 58) L. Bonfili, V. Cecarini, S. Berardi, S. Scarpona, J.S. Suchodolski, C. Nasuti, D. Fiorini, M.C. Boarelli, G. Rossi, A.M. Eleuteri. Microbiota modulation counteracts Alzheimer's disease progression influencing neuronal proteolysis and gut hormones plasma levels. *Sci Rep.* (2017) 7(1): 2426.
- 59) L. Bordoni, D. Fedeli, C. Nasuti, M. Capitani, D. Fiorini, R. Gabbianelli. Permethrin pesticide induces NURR1 up-regulation in dopaminergic cell line: Is the pro-oxidant effect involved in toxicant-neuronal damage? *Comp. Biochem. Physiol. C. Toxicol. Pharmacol.* (2017) 201: 51-57.

Comunicazioni orali e poster a congressi:

- 1) Perturbazione della membrana plasmatica in eritrociti di ratti esposti alla cipermetrina. C. Nasuti, R., Gabbianelli, F., Cantalamessa G., Falcioni. "Basi molecolari delle risposte cellulari ad inquinanti chimici in molluschi e teleostei di acque costiere dell'Adriatico". Perugia, January, 2002.
- 2) Attività dell'acqua sulfurea sul metabolismo delle lipoproteine plasmatiche e possibile meccanismo d'azione nel ratto ipercolesterolemico. C. Nasuti, R., Gabbianelli, F., Cantalamessa, G., Falcioni. "XXXII Congresso Nazionale SINU". Salsomaggiore, October 10-12, 2002.
- 3) Influenza dell'idroterapia con acqua sulfurea su eritrociti di ratti alimentati con dieta ipercolesterolemica. C. Nasuti, R., Gabbianelli, F., Cantalamessa G., Falcioni. "XXXII Congresso Nazionale SINU". Salsomaggiore, October 10-12, 2002.
- 4) Effetto antiulcerogenico di un prodotto commerciale di miele di castagno. C. Nasuti, F., Cantalamessa, R., Gabbianelli, L., Mattioli, M., Perfumi. "IX Congresso Nazionale di Fitoterapia". Salsomaggiore, June 30, 2003.
- 5) Effetto ergogenico di una preparazione commerciale di miele di castagno integrato con ginseng, pappa reale e propoli. L., Mattioli, C. Nasuti, F., Cantalamessa, M., Perfumi. "IX Congresso Nazionale di Fitoterapia". Salsomaggiore, June 30, 2003.
- 6) Functional alterations in rabbit aorta induced by pyrethroids. C. Nasuti, F., Cantalamessa, C.J., Daly, J.C., McGrath. "Oxidative Stress and Aging". Pioraco, June, 15-17, 2005.7) Functional

alterations in rabbit aorta induced by types I and II pyrethroids. C., Nasuti, F., Cantalamessa, C.J., Daly, J.C., McGrath. Marie Curie Conference, "Making Europe more attractive to researchers". Pisa-Livorno, September 28-30, 2005.

8) Lymphocyte DNA damage in rats exposed to pyrethroids. . R., Gabbianelli, C., Nasuti, G., Falcioni, F., Cantalamessa. 50° Congresso Nazionale SIB. Riccione, September 27-30, 2005.

9) Alteration of dopaminergic system in rats treated with pyrethroids. R., Gabbianelli, C., Nasuti, G., Falcioni, F., Cantalamessa. Congresso Nazionale SIB. Messina, June 9-10, 2006.

10) Alterations in rabbit aorta induced by pyrethroids. C. Nasuti, F. Cantalamessa, C.J. Daly, J.C. McGrath. The 16th International Congress of Agricultural Medicine and Rural Health (IAAMRH). Lodi, June 18-21, 2006.

11) ⁶⁴Copper-Asparagine in glioblastome: microPET study. G. Valentini, P. Panichelli, D. Martini, M. Colonna, S. Caria, M. Fulvi, C. Malizia, C. Nasuti, M. Bramucci. VIII National Congress of Italian Society of Nuclear Medicine and Molecular Imaging (AIMN). Torino, Italy, June, 2007.

12) Alterations of monocyte respiratory burst and of membrane fluidity in rats treated with permethrin. R. Gabbianelli, C. Nasuti, M.L. Falcioni, F. Cantalamessa. National Congress of Italian Society of Biochemistry (SIB). San Benedetto, Italy, May 31-June 1, 2007.

13) Inhibiton of Nanobacteria by new lipidic compound: ⁶⁴Copper-Thioflavine T and Ambisone lyposome. The XXIIIrd International Conference on Yeast Genetics and Molecular Biology. P. Panichelli, L. Castignani, M. Colonna, D. Martini, G. Valentini, M. Bramucci, G. Lupidi, C. Nasuti, L. Quassinti, L. Ninonà. Melbourne, Australia, July 1-6, 2007.

14) Neurochemical modulation and behavioural change after neonatal administration of pyrethroids in animal model. C. Nasuti, R. Gabbianelli, A. Di Stefano, F. Cantalamessa. 33th National Congress: Italian Society of Pharmacology. Cagliari, Italy, June 6-9, 2007.

15) Effect of Vitamin E and Coenzyme Q10 supplementation in rats treated with Permethrin. R. Gabbianelli, C. Nasuti, M. L. Falcioni, F. Cantalamessa. The Fifth Conference of the International Coenzyme Q10 Association. Kobe Gakuin University, Port Island, Kobe Japan, November 9-12, 2007 (selected as honorary work).

16) Lipidic nanovesicle for the delivery of radiopharmaceutical compounds for the monitoring in vivo and therapy. P. Panichelli, L. Castignani, M. Colonna, C. Malizia, D. Martini, G. Valentini, C. Nasuti, G. Lupidi, A. Berbellini. NSTI Nanotech 2008 - 11th Annual Conference. Boston, Massachusetts (USA). June 1-5, 2008.

17) Fpg and Endo III recognize lymphocyte DNA damage in permethrin treated rats. M.L. Falcioni, C. Nasuti, F. Cantalamessa, R. Gabbianelli. Biochimica Marina e dell'Ambiente Cesenatico. June 13 -14, 2008.

18) Can antioxidants protect rats against permethrin-induced oxidation? R. Gabbianelli, M.L. Falcioni, C. Nasuti, F. Cantalamessa. The 5th International Forum on Oxidative stress and aging, Ancona September 12-13, 2008.

- 19) Can Antioxidants Protect Against Permethrin-induced Increase of Polymorphonuclear Respiratory Burst? R. Gabbianelli, M.L. Falcioni, C. Nasuti, F. Cantalamessa. The XIV Biennial Meeting of the Society for Free Radical Research International (14th SFRR). Beijing, China. October 18-22, 2008.
- 20) Oxidative stress and mitochondria ROS production in striatum cells following permethrin treatment. M.L. Falcioni, C. Nasuti, F. Marmocchi, F. Cantalamessa, R. Gabbianelli. SIMBA, Cesenatico. July 8-10, 2009.
- 21) Permethrin induced cardiac oxidative DNA damage in rats. D. Vadhana, C. Nasuti, F. Cantalamessa, R. Gabbianelli. 8th International Comet Assay Workshop. Perugia. August 27-20, 2009.
- 22) Effect of antioxidants in rats treated with pyrethroid insecticides. C. Nasuti, R. Gabbianelli, M.L. Falcioni, D. Sekar. 34th National Congress: Italian Society of Pharmacology. Rimini, Italy, October 14-17, 2009.
- 23) Dopaminergic system expression in rat facial nucleus and hippocampus after trimethyltin administration. F. Mignini, C. Nasuti, C. Capezzone, F. Giovannetti, G. Iannetti, L. Fumagalli. 34th National Congress of the Italian Society of Histochemistry. San Benedetto, Italy, June 7-9, 2011.
- 24) Heart damage in adult rats following early life permethrin treatment. M.S.D. Vadhana, M. Carloni, C. Nasuti, R. Gabbianelli, V. Scocco, D. Fedeli. FEBS Torino, June 25-30, 2011.
- 25) Epigenetic regulation of Nurr1 in striatum of rats exposed to permethrin insecticide. D. Vadhana M.S, C. Nasuti, M. Carloni, D. Fedeli, M. Montani, A. Amici, R. Gabbianelli. The 11th International Conference on Alzheimer and Parkinson Diseases. Florence, Italy, March 6-10, 2013.
- 26) Pesticidi. C. Nasuti. Congresso Nazionale "Professione, ambiente, Salute e Sviluppo, Inquinamento della catena alimentare". Sulmona, Italy, April 11-12, 2014.
- 27) Early life pesticide exposure and long-term health effects. C. Nasuti. International Summer School on Nutrigenomics. University of Camerino, September 2014.
- 28) Permethrin pesticide residues in food mediate progressive neuronal disorder.
C. Nasuti, S. Vincenzetti, L. Correia-Sa, V. Domingues, D. Fedeli, M. Ricciutelli, S. Pucciarelli, R. Gabbianelli. 9th Congress of the International Society of Nutrigenetics/Nutrigenomics (ISNN). Chapel Hill, USA. May 17–19, 2015.
- 29) Protection with electrolyzed reduced water on gut microbiota in rats exposed to permethrin during postnatal development. C. Nasuti. II European Summer School Nutrigenomics. University of Camerino, September 7, 2016.
- 30) Impact of Food Pesticides on the Gut Microbiota. R. Gabbianelli, D. Fedeli, L. Bordoni, D. Fiorini, I. Dus, C. Nasuti. 10th Congress of the International Society of Nutrigenetics/Nutrigenomics (ISNN). Tel Aviv, Israel. May 22-26, 2016.

31) Early life exposure to permethrin food contaminant inducing neurodegeneration: is it matter of epigenetics? L. Bordoni, C. Nasuti, D. Fedeli, R. Gabbianelli. 11th Congress of the International Society of Nutrigenetics/Nutrigenomics (ISNN). Los Angeles, USA, September 16–19, 2017.