

CURRICULUM VITAE

Prof. Giovanni Scapagnini

Giovanni Scapagnini, MD, PhD

Full Professor, Clinical Nutrition (SSD MED49)

Departmental Affiliation

Department of Medicine and Health Science,

University of Molise

Via de Sanctis, Campobasso

Giovanni Scapagnini was born in Naples on 31/08/1966

Education and training: Professional Experience (Academic)

1992 Medical Degree, School of Medicine and Surgery, University of Catania, Italy; vote 110/110 lauded, experimental thesis “Pathogenic models and experimental therapies of Alzheimer dementia”

1992 Italian Medical Licensing Examination, vote 90/90

2001 PhD in Neurobiology, Institute of Biochemistry, University of Catania, Italy; experimental thesis titled: Interactions between Neurons, Astrocytes and Microglia in Neurodegenerative Processes: Role of inducible Nitric Oxide Synthase (iNOS)”

1992–1998 Research fellow, Institute of Biochemistry, Faculty of Medicine, University of Catania, Italy.

1999 Research fellow, Department of Surgical Research Northwick Park Institute for Medical Research Harrow, Middlesex, United Kingdom.

2000 Visiting Scientist, Laboratory of Adaptive Systems, National Institute of Neurological Disorders and Stroke, National Institutes of the Health, Bethesda MD

2000-2002 Two years Research Grant in Pharmacology, Project “Effects of resveratrol in experimental models of ocular pathologies correlated to oxidative processes”, Department of Experimental and Clinical Pharmacology, University of Catania, Italy.

2000-2003 Research Assistant Professor, Blanchette Rockefeller Neurosciences Institute, West Virginia University at Johns Hopkins University, Rockville, MD

2003-2006 Research Assistant Professor, Institute of Neurological Sciences, Italian National Research Council, Catania, Italy

2006-current Associate Professor, Clinical Biochemistry, Faculty of Medicine, University of Molise, Campobasso, Italy

2003-2006 Visiting professor, New York Medical College, Walalla NY (USA), Department of Pharmacology. Research Project: “The role of heme oxygenase system in the CNS”

2004-current Visiting professor, Institute of Human Virology, University of Maryland, Baltimore, MD (USA) Research Project: "HIV Dementia: novel pharmacological targets"

2014 National Concourse for habilitation to Full Professorship: Obtained for the following disciplines: Human Nutritional Science, National concourse by MIUR, 2012 (DD n. 222/2012); Biochemistry and Clinical Biochemistry National concourse by MIUR, 2012 (DD n. 222/2012)

2019-current Full Professor, Clinical Nutrition, Faculty of Medicine, University of Molise, Campobasso, Italy

Other Academic Titles and Recognitions

2022 Coordinator of the PhD Course in "Translational and Clinical Medicine" of the University of Molise

2008-2013 Rector's Delegate to the Research of the University of Molise

2008-2010 is nominated President of the technical commission for Patents and Technology Transfer of the University of Molise

Member of the University Commission for the Quinquennial Evaluation of Research (VQR) 2004/2010

From the Academic Year 2008/2009 member of the Research Doctorates in Science for Health at the University of Molise

2010 - 2015 Member of the Scientific Committee of the Neurological Institute C. Mondino IRCCS of Pavia

2013-current Vice-President and Chair of the Scientific Board of the Inter-University Consortium Sanniotech, Benevento, Italy (www.sanniotech.it)

Reviewer for the evaluation of projects for the Italian Ministry of Instruction, University and Research (MIUR): Reviewer for Projects Future in Research 2010.

Scientific Societies and Foundations

1997-current member of Italian Medical Association, Catania (N° 11497)

2000-current member of the American Society for Neuroscience

2003-current Founder and member of the Scientific Board of the Italian ONLUS Foundation "Ricerca e Progresso" (Research and Progress), President prof. Robert C. Gallo, IHV University of Maryland, USA.

2007-current Member of the Scientific Board of the Italian ONLUS Foundation "Paolo Sorbini per la Scienza nell'Alimentazione" (Paolo Sorbini for Science in Nutrition)

2009-current Vice-President, Founder and Member of Board of Directors of the Italian Society of Nutraceuticals SINUT (www.sinut.it)

2010-current, member of the scientific committee and Director of Neuroscience of Aging of “Regenera Research Group”

2012-current member of the International Advisory Board of Gold Mercury Organization, UK (www.goldmercury.org)

2014-current Member of directors of the International Network of the Centers on Genetics Nutrition and Fitness for Health (Washington DC, USA), President Artemis Simoupolos

2015-current member of the scientific Board of the “Mediterranean Diet Roundtable”, Boston, MA, USA

2017-current member of the European Sport Nutrition Society.

2017-current President of the scientific committee of Fiere di Roma, for WELFAIR EXPO

2022 Member of the Commission of the Italian Medical Association for "Nutrition in Oncology"

Main International Scientific Collaborations

Collaborating with several laboratories, both in the EU and internationally, with various stages done as visiting instructor and, then, as visiting professor (see education and training). Particularly had fellowships (teaching and research) for the following International Research Institutions:

Department of Surgical Research, Northwick Park Institute for Medical Research, Harrow, Middlesex (UK). Director prof. Colin Green. 02/2000 09/2000

Blanchette Rockefeller Neurosciences Institute, West Virginia University at Johns Hopkins University, Rockville, MD (USA). Director prof. Daniel Alkon. 11/2000 10/2003

Human Virology, University of Maryland, Baltimore, MD (USA). Director prof. Robert Gallo 05/2004 05/2005

Numerous and long-term collaborations with the Okinawa International University, Japan, and particularly with prof. Craig D. Willcox, Department of Human Welfare, in charge of the Okinawa Centenarians Study, with several joint publications about the nutritional aspects of Okinawan centenarians.

Consolidated and productive collaboration, in terms of scientific publications in the field of nutritional neuroscience, with prof Michael Maes, Department of Psychiatry, Faculty of Medicine, della Chulalongkorn University, Bangkok, Thailand, with prof Allan Butterfield, Department of Chemistry, Center of Membrane Sciences, and Sanders-Brown Center on Aging, University of Kentucky, Lexington, Kentucky, and with prof Immaculata De Vivo Harvard -T.H. Chan School of Public Health - Department of Epidemiology - Genomic Epidemiology Research Laboratory - Boston, MA, USA.

2014-current Member of directors, and representative for Italy, of the International Network of the Centers on Genetics Nutrition and Fitness for Health (Washington DC, USA), President Artemis Simoupolos, and directed by prof Jing Kang, Laboratory for Lipid Medicine and Technology

Harvard Medical School Massachusetts General Hospital, with whom has a stable collaboration in the field of Nutrition and Public Health.

Scientific journals:

2008-current Member of the editorial board of "Biogerontology" (Springer)

2017-current Member of the editorial board of "Aging Research Reviews" (Elsevier) Peer

reviewer for several International Scientific Journals. Among the others:

Nutrients, Plos one, Free Radical Biology and Medicine, Oxidative Medicine and Cell Longevity, Brain Research, Journal Nutrition and Healthy Aging.

Technology transfer, Spin off, development and commercialization of patents

Co-Inventor of the following international and national patents:

- 1 - Pisanti A, Davinelli S, Cardinale G, Porcaro P, Romanucci V, Zarrelli A, **Scapagnini G**. (2017) "Procedimento per il Trattamento di Solanacee." (RIF. 13684 PTIT) (N. Brevetto 102015000026250)
- 2 **Scapagnini G**, Marchetti M, De Grossi Mazzorin F (2016) Pharmaceutical composition for treating anxiety containing l-theanine and baicalein EP 3006026 A1
- 3 - Tramonti P, **Scapagnini G**, Meggiato C (2016) Compositions comprising glucosinolates precursors of sulforaphane in combination with extracts of rosemary WO 2016037971 A1
- 4 - Sortino E, **Scapagnini G** (2015). Nutritional composition for the prevention and treatment of COPD and related symptoms. WO 2015/092763 A1
- 5 - Marchetti M, **Scapagnini G**, Porcaro P, De Grossi Mazzorin F (2014). Composition for the prevention and treatment of migraine or neuropathic pain. EP2845589A1
- 6 - Sferra D, Russo V, Vergalito F, Franceschini D, Mangano K, **Scapagnini G**, Di Marco R, Longo S (2012). Composition for the prevention and treatment of acute and recurrent urinary tract infections. WO2014040632 A1
- 7 - **Scapagnini G**, Davinelli S, Visentin M, Ruffinengo E (2012). Composition for use in the treatment of menopause problems/disorders and in the treatment of general aging of the organism. WO/2012/107905
- 8 - Mezzina C, **Scapagnini G** (2009). Preparations containing microorganisms . WO/2009/004409
- 9 - **Scapagnini G**, Bertini I, Lucciola I, Quattrone A (2008). Beverage suitable to retard the cellular degeneration which accompanies ageing . WO/2008/037740
- 10 - Mezzina C, **Scapagnini G**, Volpato I, Bizzini B, Franchi G (2008). Chitins and chitosans in an activated form and their slimming, hypoglycaemic, hypolipidaemic properties. WO/2008/010172

- 11 - Mezzina C, **Scapagnini G**, Volpato I, Bizzini B, Franchi G (2008). Cross-linked chitosan and process to cross-link . WO/2008/007321
- 12 - **Scapagnini G**, Alkon DI, Calabrese V, Motterlini R, Colombrita C (2004). Use of curcumin derivatives or CAPE in the manufacture of a medicament for the treatment of neuroprotective disorders. WO 2004/075883 A1
- 13 - Bizzini B, **Scapagnini G**, Volpato I, Donadelli M (2001). Chemically derivatized nondigestible and/or non-absorbable biopolymers as competitive antagonists of intestinal absorption of nutrients. EP1064858
- 14 - Bizzini B, **Scapagnini G**, Volpato I, Magara M, Veneroni F, Volpato L (2001). Oligosaccharide metabolites of glycosaminoglycans and their use in the diagnosis and treatment of complications of diabetes. WO0104632
- 15 - **Scapagnini G**, Cavazza C (1994). Use of acyl L-carnitine gamma-hydroxybutyrate for the manufacture of a medicament for the treatment of drug addiction. EP0630648
- 16 - **Scapagnini G**, Cavazza C (1994). Use of acyl L-carnitine gamma-hydroxybutyrate for the treatment of alcoholism. EP0616805

Majority of these patents, have been developed by the applicants, allowing the realization of products and raw materials, commercialized on the market as food, nutraceuticals, functional food and animal food.

In 2004 is founder and member of the board of directors of the biotech startup Genalta srl, together with other academic professors (Prof. Ivano Bertini, Director of the European Center of Molecular Magnetic Resonance at University of Florence, Prof. Alessandro Quattrone, University of Trento), with the Pharmacogenomics Foundation FiorGen at the University of Florence, and with the Chamber of Commerce of the City of Florence. In the context of this Biotech Company has developed the following patent:: PCT WO 2008/037740 Beverage suitable to retard the cellular degeneration which accompanies ageing (inventors: Bernasconi, Sara; Bertini, Ivano; Lucciola, Isidoro; Luchinat, Claudio; Quattrone, Alessandro; Scapagnini, Giovanni), transferred for the industrial development to Casbega SA (Castellana de Bebidas Gaseosas S.A), Madrid, company partner of Coca-Cola US.

2013-current Member and Founder of the University Spin off company "PharmaMol Srl", at University of Molise, together with prof. Roberto Di Marco and Claride Phama srl. In this context has developed the following invention, submitted for a PCT patent: Scapagnini G, Di Marco R, Longo S. Composition for prevention and treatment of polycystic ovary syndrome and related symptoms. n. 102015000069529, submitted on November 5th 2015.

Congress and Seminars

During the last 20 years has been invited speaker to more than 300 national and international congress, in the scientific area of functional nutrition and biology of ageing.

Organization of congress and Scientific Events ECM

2002 2nd International Heme Oxygenases Conference, June 6-9, Catania

2004 1st *Mediterranean Conference on Anti-Aging Medicine* Catania, october 14-17

Organization and President of the international conferences “Science in Nutrition” by ONLUS Foundation “Paolo Sorbini per la Scienza nell’Alimentazione” (4 editions 2010 Roma, 2012, 2014 and 2017 Milan)

Organization from 2011 of SINUT (Italian Society of Nutraceuticals) national conferences (5 editions)

2008 3°Forum Gerontologico del Mediterraneo, 10-12 october, Campobasso

2016 and 2017 Member of the scientific organizing committee of “Forum della Leopolda”, Florence

In the scientific secretariat of more than 30 national conferences.

Publications

Scientific production consists of 151 publications:

131 publications on peer reviewed international journals.

20 chapters on international and national scientific books

Original articles on International Journals

Database access 07/06/2022

Google Scholar: total citations 11336, h-index 56

1. Calabrese V, **Scapagnini G**, Randazzo SD, Randazzo G, Catalano C, Geraci, Morganti P (1999) *Oxidative stress and antioxidants at skin biosurface: a novel antioxidant from lemon oil capable of inhibiting oxidative damage to the skin*. *Drugs Exptl. Clin. Res.*; XXV (6) 281287.
2. Calabrese V, **Scapagnini G**, Catalano C, Dinotta F, Geraci D, Morganti P (2000) *Biochemical studies of a natural antioxidant isolated from rosemary and its application in cosmetic dermatology*. *Int J Tissue React*;22 (1): 5-13
3. **Scapagnini G**, Di Notta F, Calabrese V (2000) *Oxidative stress and neurodegenerative disorders: the role of vitamin E in nutritional neuroscience*. *Dermatologia*, ed. Italiana di international journal of immunopathology and pharmacology vol 1 (3)
4. Calabrese, V., **Scapagnini, G.**, Catalano, D., Dinotta, F., Bates, T.E., Calvani, M., Giuffrida Stella A.M. (2001). Effects of acetyl-L-carnitine on the formation of fatty acid ethyl esters in brain and peripheral organs after short-term ethanol administration in rat. *Neurochemical Res.*;26(2):167-74

5. Calabrese V, **Scapagnini G**, Catalano C, Bates TE, Geraci D, Pennisi G, Giuffrida Stella AM.(2001) Regulation of heat shock protein synthesis in human skin fibroblasts in response to oxidative stress: role of vitamin E. *Int J Tissue React*;23(4):127-35
6. Calabrese V, **Scapagnini G**, Giuffrida Stella AM, Bates TE, Clark JB. (2001) Mitochondrial involvement in brain function and dysfunction: relevance to aging, neurodegenerative disorders and longevity. *Neurochem Res Jun*;26(6):739-64
7. Calabrese V, **Scapagnini G**, Catalano C, Bates TE, Dinotta F, Micali G, Giuffrida Stella AM. (2001) Induction of heat shock protein synthesis in human skin fibroblasts in response to oxidative stress: regulation by a natural antioxidant from rosemary extract. *Int J Tissue React*;23(2):51-8
8. **Scapagnini G**, D'Agata V, Calabrese V, Pascale A, Colombrita C, Alkon DL, Cavallaro S. (2002) Gene expression profiles of heme oxygenase isoforms in the rat brain *Brain Res.* 954(1): 31-39
9. Butterfield DA, Castegna A, Drake J, **Scapagnini G**, Calabrese V. (2002) Vitamin E and neurodegenerative disorders associated with oxidative stress *Nutr Neurosci Sep*;5(4):22939
10. Butterfield D, Castegna A, Pocernich C, Drake J, **Scapagnini G**, Calabrese V. (2002) Nutritional approaches to combat oxidative stress in Alzheimer's disease *J Nutr Biochem Aug*;13(8):444
11. Calabrese V, **Scapagnini G**, Ravagna A, Giuffrida Stella AM, Butterfield DA (2002) Molecular chaperones and their roles in neural cell differentiation. *Dev Neurosci*;24(1):113
12. D'Agata V, Zhao W, Pascale A, Zohar O, **Scapagnini G**, Cavallaro S. (2002) Distribution of parkin in the adult rat brain *Prog Neuropsychopharmacol Biol Psychiatry Apr*;26(3):51927
13. Calabrese V, **Scapagnini G**, Ravagna A, Fariello RG, Giuffrida Stella AM, Abraham NG. (2002) Regional distribution of heme oxygenase, HSP70, and glutathione in brain: relevance for endogenous oxidant/antioxidant balance and stress tolerance *J Neurosci Res Apr* 1;68(1):65-7
14. **Scapagnini G**, Foresti R, Calabrese V, Giuffrida Stella AM, Green CJ, Motterlini R. (2002) Caffeic acid phenethyl ester and curcumin: a novel class of heme oxygenase-1 inducers. *Mol Pharmacol Mar*;61(3):554-61
15. Calabrese V, **Scapagnini G**, Ravagna A, Bella R, Foresti R, Bates TE, Giuffrida Stella AM, Pennisi G. (2002) Nitric oxide synthase is present in the cerebrospinal fluid of patients with active multiple sclerosis and is associated with increases in cerebrospinal fluid protein nitrotyrosine and S-nitrosothiols and with changes in glutathione levels. *J Neurosci Res*;70(4):580-7
16. **Scapagnini G**, Ravagna A, Bella R, Colombrita C, Pennisi G, Calvani M, Alkon D, Calabrese V. (2002) Long-term ethanol administration enhances age-dependent modulation of redox state in brain and peripheral organs of rat: protection by acetyl carnitine. *Int J Tissue React.*;24(3):89-96

17. Calabrese V, **Scapagnini G**, Latteri S, Colombrita C, Ravagna A, Catalano C, Pennisi G, Calvani M, Butterfield DA. (2002) Long-term ethanol administration enhances agedependent modulation of redox state in different brain regions in the rat: protection by acetyl carnitine. *Int J Tissue React.*;24(3):97-104
18. Colombrita C, Calabrese V, Giuffrida Stella AM, Mattei F, Alkon DL, **Scapagnini G**. (2003) Regional rat brain distribution of heme oxygenase-1 and manganese superoxide dismutase mRNA: relevance of redox homeostasis in the aging processes. *Exp Biol Med (Maywood)*;228(5):517-24
19. Colombrita C, Lombardo G, **Scapagnini G**, Abraham NG. (2003) Heme oxygenase-1 expression levels are cell cycle dependent. *Biochem Biophys Res Commun*;308(4):1001-8.
20. Abraham NG, **Scapagnini G**, Kappas A. (2003) Human heme oxygenase: Cell cycledependent expression and DNA microarray identification of multiple gene responses after transduction of endothelial cells. *J Cell Biochem*; 90:1098-1111.
21. Calabrese V, **Scapagnini G**, Ravagna A, Bella R, Butterfield DA, Calvani M, Pennisi G, Giuffrida Stella AM. (2003) Disruption of thiol homeostasis and nitrosative stress in the cerebrospinal fluid of patients with active multiple sclerosis: evidence for a protective role of acetylcarnitine. *Neurochem Res.* 28:1321-1328
22. Calabrese V, **Scapagnini G**, Colombrita C, Ravagna A, Pennisi G, Giuffrida Stella AM, Galli F, Butterfield DA (2003) Redox regulation of heat shock protein expression in aging and neurodegenerative disorders associated with oxidative stress: A nutritional approach. *Amino Acids*; 25: 437-444
23. Quattrone S, Chiappini L, **Scapagnini G**, Bigazzi B, Bani D. (2004) Relaxin potentiates the expression of inducible nitric oxide synthase by endothelial cells from human umbilical vein in in vitro culture. *Mol Hum Reprod.*10(5):325-30
24. Calabrese V, **Scapagnini G**, Ravagna A, Colombrita C, Spadaro F, Butterfield DA, Giuffrida Stella AM. (2004) Increased expression of heat shock proteins in rat brain during aging: relationship with mitochondrial function and glutathione redox state. *Mech Ageing Dev.* 125(4):325-35
25. Poon HF, Calabrese V, **Scapagnini G**, Butterfield DA. (2004) Free radicals: key to brain aging and heme oxygenase as a cellular response to oxidative stress. *J Gerontol A Biol Sci Med Sci.* 59(5):478-93
26. Poon HF, Calabrese V, **Scapagnini G**, Butterfield DA. (2004) Free radicals and brain aging. *Clin Geriatr Med.* 20(2):329-59
27. Calabrese V, Boyd-Kimball D, **Scapagnini G**, Butterfield DA. (2004) Nitric oxide and cellular stress response in brain aging and neurodegenerative disorders: the role of vitagenes. *In Vivo.*18(3):245-67
28. **Scapagnini G**, Butterfield DA, Colombrita C, Sultana R, Pascale A, Calabrese V. (2004) Ethyl ferulate, a lipophilic polyphenol, induces HO-1 and protects rat neurons against oxidative stress. *Antioxid Redox Signal.* 6(5):811-8

29. Calabrese V, Stella AM, Butterfield DA, **Scapagnini G**. (2004) Redox regulation in neurodegeneration and longevity: role of the heme oxygenase and HSP70 systems in brain stress tolerance. *Antioxid Redox Signal*.6(5):895-913
30. Cini G, Neri B, Pacini A, Cesati V, Sassoli C, Quattrone S, D'Apolito M, Fazio A, **Scapagnini G**, Provenzali A, Quattrone A (2005) Antiproliferative activity of melatonin by transcriptional inhibition of cyclin D1 expression: a molecular basis for melatonin-induced oncostatic effects. *J Pineal Res*. 39(1):12-20
31. Calabrese V, Ravagna A, Colombrita C, **Scapagnini G**, Guagliano E, Calvani M, Butterfield DA, Giuffrida Stella AM. (2005) Acetylcarnitine induces heme oxygenase in rat astrocytes and protects against oxidative stress: Involvement of the transcription factor Nrf2. *J Neurosci Res*. 79(4):509-21
32. Sacerdoti D, Olszanecki R, Li Volti G, Colombrita C, **Scapagnini G**, Abraham NG (2005) Heme Oxygenase Overexpression Attenuates Glucose-Mediated Oxidative Stress in Quiescent Cell Phase: Linking Heme to Hyperglycemia Complication. *Curr. Neurovasc Res*. 2(2):103-111
33. Li Volti GL, Sacerdoti D, Sangras B, Vanella A, Mezentsev A, **Scapagnini G**, Falck JR, Abraham NG. (2005) Carbon monoxide signaling in promoting angiogenesis in human microvessel endothelial cells. *Antioxid Redox Signal*. 7(5-6):704-10
34. Calabrese V, Lodi R, Tonon C, D'Agata V, Sapienza M, **Scapagnini G**, Mangiameli A, Pennisi G, Stella AM, Butterfield DA (2005) Oxidative stress, mitochondrial dysfunction and cellular stress response in Friedreich's ataxia. *J Neurol Sci*. 233(1-2):145-62
35. Sacerdoti D, Colombrita C, Ghattas MH, Ismaeil EF, **Scapagnini G**, Bolognesi M, Li Volti G, Abraham NG. (2005) Heme oxygenase-1 transduction in endothelial cells causes downregulation of monocyte chemoattractant protein-1 and of genes involved in inflammation and growth. *Cell Mol Biol (Noisy-le-grand)*. 51(4):363-70
36. Calabrese V, Colombrita C, Guagliano E, Sapienza M, Ravagna A, Cardile V, **Scapagnini G**, Santoro AM, Mangiameli A, Butterfield DA, Giuffrida Stella AM, Rizzarelli E. (2005) Protective effect of carnosine during nitrosative stress in astroglial cell cultures. *Neurochem Res*. 30(6-7):797-807
37. Pascale A, Amadio M, **Scapagnini G**, Lanni C, Racchi M, Provenzani A, Govoni S, Alkon DL, Quattrone A. (2005) Neuronal ELAV proteins enhance mRNA stability by a PKC alpha-dependent pathway. *Proc Natl Acad Sci U S A*. 102(34):12065-70
38. **Scapagnini G**, Colombrita C, Amadio M, D'Agata V, Arcelli E, Sapienza M, Quattrone A, Calabrese V. (2006) Curcumin activates defensive genes and protects neurons against oxidative stress. *Antioxid Redox Signal*. 8(3-4):395-403
39. Calabrese V, Colombrita C, Sultana R, **Scapagnini G**, Calvani M, Butterfield DA, Stella AM. (2006) Redox modulation of heat shock protein expression by acetylcarnitine in aging

brain: relationship to antioxidant status and mitochondrial function. *Antioxid Redox Signal*. 8(3-4):404-16

40. Calabrese V, Butterfield DA, **Scapagnini G**, Stella AM, Maines MD. (2006) Redox regulation of heat shock protein expression by signaling involving nitric oxide and carbon monoxide: relevance to brain aging, neurodegenerative disorders, and longevity. *Antioxid Redox Signal*. 8(3-4):444-77
41. Mancuso C, **Scapagnini G**, Curro D, Giuffrida Stella AM, De Marco C, Butterfield DA, Calabrese V. (2007) Mitochondrial dysfunction, free radical generation and cellular stress response in neurodegenerative disorders. *Front Biosci*. 12:1107-23.
42. Amadio M, **Scapagnini G**, Lupo G, Drago F, Govoni S, Pascale A. (2008) PKC β II/Hur/VEGF: A new molecular cascade in retinal pericytes for the regulation of VEGF gene expression. *Pharmacol Res*. 57(1):60-6
43. Micale V, **Scapagnini G**, Colombrita C, Mazzola C, Alkon DL, Drago F. (2008) Behavioural effects of dietary cholesterol in rats tested in experimental models of mild stress and cognition tasks. *Eur Neuropsychopharmacol*. 18(6):462-71
44. Calabrese V, Signorile A, Cornelius C, Mancuso C, **Scapagnini G**, Ventimiglia B, Ragusa N, Dinkova-Kostova A. (2008) Practical approaches to investigate redox regulation of heat shock protein expression and intracellular glutathione redox state. *Methods Enzymol*. 441:83-110.
45. Racchi M, Uberti D, Govoni S, Memo M, Lanni C, Vasto S, Candore G, Caruso C, Romeo L, **Scapagnini G**. (2008) Alzheimer's disease; new diagnostic and therapeutic tools. *Immun Ageing*. 5(1):7.
46. **Scapagnini G**, Amadio M, Laforenza U, Intrieri M, Romeo L, Govoni S, Pascale A (2008) Post-transcriptional regulation of HSP70 expression following oxidative stress in SH-SY5Y cells: the potential involvement of the RNA-binding protein HuR. *Curr Pharm Des*. 14(26):2651-8.
47. Romeo L, Intrieri M, D'Agata V, Mangano NG, Oriani G, Ontario ML, **Scapagnini G** (2009) The major green tea polyphenol, (-)-epigallocatechin-3-gallate, induces heme oxygenase in rat neurons, and acts as an effective neuroprotective agent against oxidative stress. *J Am Coll Nutr*.
48. Sikora E, **Scapagnini G**, Barbagallo M, Vasto S (2010) The promise of putting ageing on ice comes from curcumin. *Immun Ageing*.
49. Vasto S, **Scapagnini G**, Bulati M, candore G, Castiglia L, Colonna-Romano G, Lio D, Nuzzo D, Pellicanò M, Rizzo C, Ferrara N, Caruso C. (2010) Biomarkers of aging. *Front Biosci*. S2:392-340
50. Carsana A, Frisso G, Intrieri M, Tremolaterra MR, Savarese G, **Scapagnini G**, Esposito G, Santoro L, Salvatore F. (2010) Molecular analysis of Duchenne/Becker muscular dystrophy. *Front Biosci*. E2:547-558

51. **Scapagnini G**, Caruso C, Vasto S, Pascale A, Romeo L, D'Agata V, Intrieri M, Sapere N, Li Volti G. (2010) Genetic risk factors and candidate biomarkers for Alzheimer's disease. *Front Biosci.* S2:616-622
52. Ruggeri M, Pavone P, **Scapagnini G**, Romeo L, Lombardo I, Li Volti G, Corsello G, Pavone L. (2010) The aristaless (Arx) gene: one gene for many "interneuronopathies". *Front Biosci.* E2:701-710
53. Candore G, Bulati M, Caruso C, Castiglia L, Colonna-Romano G, Di Bona D, Duro G, Lio D, Matranga D, Pellicanò M, Rizzo C, **Scapagnini G**, Vasto S (2010) Inflammation, cytokines, immune response, APOE and cholesterol, oxidative stress in Alzheimer's disease: Therapeutics implications. *Rejuvenation Res*
54. Di Bona D, **Scapagnini G**, Candore G, Castiglia L, Colonna-Romano G, Duro G, Iemolo F, Lio D, Pellicanò M, Scafidi V, Caruso C, Vasto S. (2010) Immune-inflammatory responses and oxidative stress in Alzheimer's disease: therapeutic implications. *Curr Pharm Des*
55. Castorina A, Tiralongo A, Giunta S, Carnazza ML, **Scapagnini G**, D'Agata V. (2010) Early effects of aluminum chloride on beta-secretase mRNA expression in a neuronal model of beta-amyloid toxicity. *Cell Biol Toxicol.* 26(4):367-77
56. Castorina A, Leggio GM, Giunta S, Magro G, **Scapagnini G**, Drago F, D'Agata V. (2011) Neurofibromin and Amyloid Precursor Protein Expression in Dopamine D3 Receptor Knock-Out Mice Brains. *Neurochem Res.*
57. **Scapagnini G**, Vasto S, Abraham NG, Caruso C, Zella D, Fabio G. (2011) Modulation of Nrf2/ARE pathway by food polyphenols: a nutritional neuroprotective strategy for cognitive and neurodegenerative disorders. *Mol Neurobiol.* 44(2):192-201
58. **Scapagnini G**, Caruso C, Calabrese V. (2011) Therapeutic Potential of Dietary Polyphenols against Brain Ageing and Neurodegenerative Disorders. *Adv Exp Med Biol.* 698:27-35.
59. Davinelli S, Intrieri M, Russo C, Di Costanzo A, Zella D, Bosco P, **Scapagnini G**. (2011) The "Alzheimer's disease signature": potential perspectives for novel biomarkers. *Immun Ageing.* 20;8:7.
60. Marrazzo G, Bosco P, La Delia F, **Scapagnini G**, Di Giacomo C, Malaguarnera M, Galvano F, Nicolosi A, Li Volti G. (2011) Neuroprotective effect of silibinin in diabetic mice. *Neurosci Lett.* 504(3):252-6.
61. Corbi G, Conti V, **Scapagnini G**, Filippelli A, Ferrara N. (2012) Role of sirtuins, calorie restriction and physical activity in aging. *Front Biosci (Elite Ed).* 4:768-78.
62. Maes M, Fišar Z, Medina M, **Scapagnini G**, Nowak G, Berk M. (2012) New drug targets in depression: inflammatory, cell-mediated immune, oxidative and nitrosative stress, mitochondrial, antioxidant, and neuroprogressive pathways. And new drug candidates-Nrf2 activators and GSK-3 inhibitors. *Inflammopharmacology.* 20(3):127-50.
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