

PERSONAL INFORMATION

Name	ANTONIO FRANCIOSO
Nationality	Italian
Date of birth	28/07/1988
EDUCATION AND TRAINING • Dates (from – to)	11/2012 - 12/2015
 Name and type of organisation providing education and training 	"Sapienza" University of Rome, Italy PhD in Biochemistry, Department of Biochemical Sciences "Rossi A. Fanelli" (XXVIIIciclo) "Sapienza" University of Rome Title of theorie: "Resurgented: on Ethylang bridge between Chemistry and Rischemistry"
	Tutors: Prof. Maria d'Erme; Prof. Luciana Mosca
• Dates (from – to)	03/2015- 09/2015
Name and type of organisation providing education and training	Faculty of Biology, Department of Plant Biology, University of Havana, Cuba
Principal subjects/occupational skills covered	Visiting scientist: Genotoxicity and mutagenicity of 2,4,6-trihydroxyphenantrene, extraction and characterization of natural products from endemic tropical flora
• Dates (from – to)	11/2010-10/2012
Name and type of organisation providing education and training	"Sapienza" University of Rome – Pharmaceutical Biotechnology
Principal subjects/occupational skills covered	Analytical and organic chemistry; natural compounds; biochemistry; microbiology; medicinal chemistry, biotechnology
Title of qualification awarded	Master degree with the mark of 110 cum laude / 110. Title of experimental thesis: "Development of a new Resveratrol pharmaceutical liquid formulation and studies of its antiviral activity"
• Dates (from – to)	09/2007 - 11/2010
Name and type of organisation providing education and training	"Sapienza" University of Rome - Biomedical Laboratory Techniques
Principal subjects/occupational skills covered	Chemistry; neurochemistry and neurobiology; biotechnology; medicine
Title of qualification awarded	Bachelor degree with the mark of 110 cum laude / 110. Title of experimental thesis : "New β -sheet breaker peptides against β -amyloid aggregation and fibrillogenesis: a possible therapeutic strategy for Alzheimer disease"

putou foours

• Dates (from – to)	2002-2007
Name and type of organisation providing education and training	Liceo Scientifico "G. Pellecchia", Cassino (FR), Italy
Title of qualification awarded	High school scientific lyceum diploma
WORK EXPERIENCE	
• Dates (from – to)	12/ 2017 – 11/ 2018
Name and address of employer	Department of Bioorganic Chemistry, Leibniz Institute of Plant Biochemistry (IPB-Halle), Halle (Saale), Germany
 Occupation and main activities 	Leibniz-DAAD post-doctoral fellowship. Title of the project: "Metabolomics-based Elucidation of the Bioactive Principles of Endemic Cuban Medicinal Plants"
• Dates (from – to)	02/ 2017 – 12/ 2017
Name and address of employer	Department of Biochemical Sciences "Rossi A. Fanelli";Sapienza University of Rome, and "GNOSIS" S.p.a.
Occupation and main activities	Post-doctoral research project: Analytical investigations on glutathione thioester derivatives and determination of S-Adenosylmethionine in human plasma
• Dates (from – to)	2016 – 2017
Name and address of employer	Department of Biochemical Sciences "Rossi A. Fanelli";Sapienza University of Rome
 Occupation and main activities 	Post-doctoral fellowship (FILAS project): "Chemical and biological studies on β-hexachlorocyclohexane, a persistent environmental pollutant of "Valle del Sacco" (ITALY).
• Dates (from – to)	2015–2017
Name and address of employer	Department of Biochemical Sciences "Rossi A. Fanelli"; Sapienza University of Rome, Italy
Occupation and main activities	Teaching assistant of molecular biology exercises for high school students in "Bioform project 2015-2017" (Foundation for the Advancement of Research in Molecular Medicine – ONLUS)
• Dates (from – to)	2012- 2015
Name and address of employer	Department of Biochemical Sciences "Rossi A. Fanelli"; Sapienza University of Rome, Italy
Occupation and main activities	Teaching assistant for laboratory exercises of biochemistry
• Dates (from – to)	2011 - 2012
Name and address of employer	Faculty of Pharmacy and Medicine, "Sapienza" University of Rome
Occupation and main activities	Tutor for the course of Pharmaceutical Biotechnology
• Dates (from – to)	2010 - 2012
Name and address of employer	Pharmaceutical company "NOOS" S.r.I.
Occupation and main activities	Consultant

· Dates ((from –	to)
-----------	---------	-----

2009- 2010

\circ Dates (non -10)	
Name and address of employer	School of Medicine, University "La Sapienza ", Rome, Italy
 Occupation, main activities and responsibilities 	Tutor of "Scientific English" for students of the Degree in Medicine and Surgery
• Dates (from – to)	2008 - 2009
Name and address of employer	School of Medicine, University "La Sapienza ", Rome, Italy
 Occupation, main activities and responsibilities 	Assistant at the "Museum of Pathological Anatomy"
PERSONAL SKILLS AND COMPETENCES	
MOTHER TONGUE OTHER LANGUAGES	ITALIAN
 Reading skills Writing skills Verbal skills Reading skills Writing skills Verbal skills 	ENGLISH EXCELLENT GOOD GOOD SPANISH EXCELLENT EXCELLENT GOOD EXCELLENT FRENCH GOOD ELEMEN TARY ELEMEN TARY ELEMEN TARY ELEMEN TARY ELEMEN TARY ELEMEN TARY ELEMEN TARY
• Verdai skills ORGANISATIONAL SKILLS AND COMPETENCES ARTISTIC SKILLS	Project and/or groups management. Good spcial interaction. Organizational skills due to experience as counselor and teacher for students Singing and playing music; dancing; sailing

RESEARCH ACTIVITIES:	Organic natural compounds and modulation of oxidative stress in biological processes. Study of polyphenolic antioxidants and properties of natural biopolymers for pharmaceutical purposes. Chemistry and biochemistry of sulfur-containing organic compounds	
TECHNICAL SKILLS AND COMPETENCES	Chemical and biochemical extractions, purifications and analytical general methods. Chromatography: HPLC, reverse phase, gel filtration, ion exchange, hydrophilic interaction. Mass Spectrometry: UHPLC-MS. Capillary electrophoresis: CE, CZE, MEKC. Spectroscopy: spectrophotometry, spectrofluorimetry, infrared spectroscopy, circular dichroi and NMR. Cell cultures, viability and toxicity evaluation, neuroactivity assays. Mono- and bi- dimensional electrophoresis, Western blotting.	sm
FUNDING AND GRANTS	 "Graduated Excellent" award 2013 from the Dean of "Sapienza" University of Rom Italy Winner of the project "Start to research" part of the Ateneo 2014 financing of "Sapienza" University of Rome, Italy Winner of the project "Start to research" part of the Ateneo 2015 financing of "Sapienza" University of Rome Fellowship from the "FILAS" project 2016: "Chemical and biological studies on β-hexachlorocyclohexane, a persistent environmental pollutant of Valle del Sacco' financing of "Regione Lazio", Italy Winner of "Leibniz-DAAD Research Fellowship 2017" from German government Excellent knowledge of : Microsoft Office ™ (Word ™, Excel ™ and PowerPoint ™). Origin Pro (Origin Lab Corporation) Graphic design applications (Adobe Illustrator ™, ImageJ). Internet, databank and bioinformatic analysis and chemical structure design (ACD labs; ChemDraw, XCalibur, MestreNova) Windows OS. 	e,
DRIVING LICENCE(S)	A3 and B	

Autoufoours

Scientific publications:

Anti-inflammatory activity of polyphenolic extract from Arabidopsis thaliana in Alzheimer's disease models

Mattioli R[#], **Francioso A**[#], D'Erme M, Trovato M, Mancini P, Piacentini L, Casale A.M., Wessjohann L, Gazzino R, Costantino P and Mosca L Redox Biology (2018) submitted

2,4,6-trihydroxyphenanthrene, a trans-resveratrol photoreaction byproduct:

first evidences of genotoxic risk

*Francioso A**, Mosca L, Menéndez-Perdomo I, Fanelli S, Fontana M, D'Erme M, Fuentes-Leon F and Sanchez-Lamar A

Phytochem. Lett. (2018) in press (December 2018)

Iridoids and volatile pheromones of Tapinoma darioi ant: Chemical differences to the closely related Tapinoma magnum

D'Eustacchio D, Centorame M, Fanfani A, Senczuk G, Jiménez-Alemán G, Vasco-Vidal A, Méndez Y, Ehlrich A, Wessjohann L and **Francioso A*** Chemoecology (2018), in press (December 2018)

Thiotaurine: from Chemical and Biological Properties to Role in H₂S Signaling Baseggio Conrado A, Capuozzo E, Mosca L, **Francioso A**, Fontana M Adv. Exp. Med. Biol. (2018) Taurine 11, in press (August 2018)

Hyaluronan-Based Nanohydrogels for Targeting Intracellular S. Aureus in Human Keratinocytes Montanari E, Oates A, Di Meo C, Meade J, Cerrone R, Francioso A, Devine D, Coviello T, Mancini P, Mosca L, Matricardi P Adv. Healthcare Mater. (2018), 1701483

Erythrocyte's aging in microgravity highlights how environmental stimuli shape metabolism and morphology

Dinarelli S, Longo G, Dietler G, **Francioso A**, Mosca L, Pannitteri G, Boumis G, Bellelli A, Girasole M

Sci. Rep. (2018) 8 (1), 5277

Behind Resveratrol Stabilization by Carboxymethylated (1,3/1,6)- β -d-Glucan: Does the Polyphenol Play a Role in Polymer Structural Organization?

Francioso A*, Dinarelli S, Girasole M, Cervoni L, D'Erme M, Mura F, Boffi A, Montanari E, Mosca L.

Int. J. Mol. Sci. (2017) 18(9), 2006

Studies on Trans-Resveratrol/Carboxymethylated (1, 3/1, 6)-β-D-Glucan Association for Aerosol Pharmaceutical Applications.

Francioso A*, Cossi R, Fanelli S, Mastromarino P, Mosca L Int. J. Mol. Sci. (2017) 18(5), 967.

ATP release during cell swelling activates a Ca 2+ -dependent CI⁻ current by autocrine mechanism in mouse hippocampal microglia

Murana E., Pagani F., Basilico B., Sundukova M., Batti L., Di Angelantonio S., Cortese B., Grimaldi A., **Francioso A**., Heppenstall P., Bregestovski P., Limatola C., Ragozzino D. Sci. Rep. (2017) 7: 4184

HPLC determination of bioactive sulfur compounds, amino acids and biogenic amines in biological specimens

Francioso A*, Fanelli S, Vigli D, Ricceri L, Cavallaro RA, BaseggioConrado A, Fontana M, D'Erme M, Mosca L

Adv. Exp. Med. Biol. (2017) Taurine 10, 535-549

hutoufoours

Carbonate anion radical generated by the peroxidase activity of copper, zinc superoxide dismutase: scavenging of radical and protection of enzyme by hypotaurine and cysteine sulfinic acid

Baseggio Conrado A, Maina S, Moseley H, **Francioso A**, Mosca L, Capuozzo E, Fontana M Adv. Exp. Med. Biol. (2017) Taurine 10, 551-561

Hyaluronan acid-cholesterol nanohydrogels: characterization and effectiveness in carrying Alginate Lyase enzyme
Montanari E, Di Meo C, Sennato S, Francioso A, Marinelli AL, Ranzo F, Schippa S, Coviello T, Bordi F, Matricardi P
New Biotechnology(2017)37, 80-89

A Novel Direct Method for Determination of Riboflavin in Alcoholic Fermented Beverages Bonamore A, Gargano M, Calisti L, **Francioso A**, Mosca L, Boffi A, Federico R Food Anal. Meth. (2016) 9 (4), 840-844

Resveratrol inhibits rhinovirus replication and expression of inflammatory mediators in nasal epithelia Mastromarino P, Capobianco D, Cannata F, Nardis C, Mattia E, De Leo A, Restignoli R, **Francioso A**, Mosca L Antiviral Res.(2015) 123, 15-21

β-Sheet interfering molecules acting against β-amyloid aggregation and fibrillogenesis Francioso A*, Punzi P, Boffi A, Lori C, Martire S, Giordano C, D'Erme M, Mosca L Bioorg. Med. Chem.(2015) 23: 8, 1671-1683

Halogenated triazinediones behave as antagonists of PKR₁: in-vitro and in-vivo pharmacological characterization Lattanzi R, Congiu C, Onnis V, Deplano A, Salvadori S, Marconi V, Maftei D, **Francioso A**,

Ambrosio C, Casella I, Costa T, Caltabiano G, Matsoukas MT, Balboni G, Negri L Int. J Pharm.Sci. Res.(2014) 5:11, 5064

Isolation and identification of 2,4,6-trihydroxyphenanthrene as a byproduct of trans-resveratrol photochemical isomerization and electrocyclization *Francioso A**, Boffi A, Villani C., Manzi L, d'Erme M, Macone A, Mosca L J. Org. Chem. (2014) 79:9381-4.

- Improved stability of trans-resveratrol in aqueous solutions by carboxymethylated (1,3/1,6)-β-D-glucan **Francioso A***, Mastromarino P, Restignoli R, Boffi A, d'Erme M, Mosca L J. Agric. Food Chem., (2014) 62:1520–15255
- Chemistry, stability and bioavailability of resveratrol **Francioso A***, Mastromarino P, Masci A, d'Erme M, Mosca L Med. Chem. (2014) 10:237-45.

5-S-Cysteinyldopamine neurotoxicity: influence on the expression of α-Synuclein and of ERp57 in cellular and animal models of Parkinson's disease Aureli C, Cassano T, Masci A, **Francioso A**, Martire S.,Cocciolo A, Chichiarelli S, Romano A, Gaetani S, Mancini P, Fontana M, d'Erme M, Mosca L J. Neurosci. Res. (2014) 92:347-58

Transient increase in neuronal chloride concentration by neuroactive amino acids released from glioma cells BertolliniC, Murana E, Mosca L, D'Erme M, ScalaF, **Francioso A**, Catalano M, Limatola C, Bregestovski P, Di Angelantonio S, Ragozzino D Frontiers Mol. Neurosci. (2012) 5:100 Modulation of the expression and aggregation of alpha-synuclein and of ERp57 in cellular and animal models of Parkinson disease
 Aureli C, Francioso A, Masci A, Faraldi M, Martire S, Ferraro A, Fontana M, Cassano T, D'Erme M, Mosca L
 The Febs Journal (2011) 278: 257

* = Corresponding author

= Equal authors contribution

BIBLIOMETRIC INDICES:

H-INDEX: 6 AUTHOR IMPACT FACTOR: 54.491 TOTAL NUMBER OF CITATIONS: 141

ABSTRACTS AND CONFERENCES:

HPLC method for the determination of sulfur-containing biogenic amines in biological specimens Francioso A, Fanelli S, Vigli D, Cavallaro R, Ricceri L, Napoletani G, Fontana M, Baseggio Conrado A, D'Erme M, Mosca L International Taurine meeting (2016) Seoul, South Korea

Improved Stability of trans-Resveratrol in Aqueous Solutions by Carboxymethylated (1,3/1,6)-β-D-Glucan and Antiviral Properties of this Combination Francioso A, Mastromarino P, Capobianco D, Mattia E, De Leo A, Girasole M, Dinarelli S, Boffi A, d'Erme M, Mosca L Nanoscience & Nanotechnology (2014) Istituto Nazionale di Fisica Nucleare, Frascati (Italia)

- Resveratrol Inhibition of Human Rhinovirus Replication Mastromarino P, Nardis C, Cannata F, De Leo A, Francioso A, Mosca L 2nd Antivirals Congress (2013) Cambridge, MA, USA
- Resveratrol Inhibition of Human Rhinovirus Replication Nardis C, Mattia E, De Leo A, Francioso A, Mosca L, Mastromarino P 5th European Congress of Virology (2013) Lyon, France

Cellular response to oxidative stress induced by Amyloid β-peptide: in vitro and in vivo studies Mosca L, Consalvi V, Chiaraluce R, Martire S, Buoninfante OA, Masci A, Francioso A, d'Erme M Biophysics & Bioeng. Letters (2012)Vol. 5(2) Roma, Italia

Modulation of the expression and aggregation of alpha-synuclein and of ERp57 in cellular and animal models of Parkinson disease
 Aureli C, Francioso A, Masci A, Faraldi M, Martire S, Ferraro A, Fontana M, Cassano T, D'Erme M, Mosca L
 FEBS JOURNAL (2011) <u>278</u>: 257-257.

Autoufoours

Seminars and congresses attended

- "β-sheet breakers in the fibrillogenesis and aggregation of amyloid: an update on chemical mechanisms and potential applications", 16-17 November2012, "Sapienza" University of Rome, Italy
- "7th International Symposium: Mass Spectrometry and related techniques in Advanced Analytical Science", 23-24 April 2013, WATERS, Manchester, United Kingdom
- "Meetings on Separations Sciences: The Contribution of Separations Sciences to food and environmental issues", 28-29 November 2013, University of Messina, Italy
- "Nanoscience and Nanotechnology 2014", 6-7 October 2014, I.N.F.N. Frascati, Italy
- "Nanoscience and Nanotechnology annual meeting 2015", Sept 28th- Oct 2nd 2015, I.N.F.N. Frascati, Italy
- "International Taurine meeting 2016" 23-27 May 2016 Seoul, South Korea
- "10th World Congress on Polyphenols Applications" 29 June 1 July 2016 Porto, Portugal
- National congress "Doctors for the Environment" 7-8 October 2016 in Arezzo, Italy
- "Natural products: Chemistry, Biology and Ecology" 20 April 2018 in Bayreuth, Germany
- "Leibniz Conference on Bioactive Compounds 2018" 23-24 April 2018 in Halle(Saale), Germany
- 11th "International Symposium on Chromatography of Natural Products" 4-7June 2018, Lublin, Poland
- 3rd "European Congress of Natural Products" 2 5 September 2018 DECHEMA-Haus, Frankfurt am Main, Germany

Autoufoours