



## 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  
PhD in Biochemistry, Department of Biochemical Sciences "Rossi A. Fanelli" (XXVIII ciclo)  
Sapienza University of Rome  
Tutors : Prof.ssa Maria d'Erme; Prof.ssa Luciana Mosca
- 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
- 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 on 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  $\beta$ -sheet breaker peptides against  $\beta$ -amyloid aggregation and fibrillogenesis: a possible therapeutic strategy for Alzheimer disease"
- Dates (from – to) **2001-2006**
- Name and type of organisation providing education and training Liceo Scientifico "G. Pellicchia", Cassino (FR), Italy
- Title of qualification awarded High school diploma

## WORK EXPERIENCE

- Dates (from – to)
- Name and address of employer
- Occupation and main activities
- Dates (from – to)
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- Occupation and main activities
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- Name and address of employer
- Occupation and main activities
- Dates (from – to)
- Name and address of employer
- Occupation and main activities
- Dates (from – to)
- Name and address of employer
- Occupation, main activities and responsibilities
- Dates (from – to)
- Name and address of employer
- Occupation, main activities and responsibilities

### 2016 - TO DATE

Department of Biochemical Sciences "Rossi A. Fanelli"; Sapienza University of Rome

Teaching assistant of molecular biology exercises for high school students in "Bioform project 2016" (Fondazione per l'Avanzamento delle Ricerche in Medicina Molecolare – ONLUS)

### 2012 - 2015

Department of Biochemical Sciences "Rossi A. Fanelli"; Sapienza University of Rome

Students tutor for laboratory exercises of biochemistry

### 2011 - 2012

Faculty of Pharmacy and Medicine, "Sapienza" University of Rome

Tutor for the course of Pharmaceutical Biotechnology

### 2010 - 2012

Pharmaceutical company "NOOS" S.r.l.

Consultant

### 2009 - 2010

School of Medicine, University "La Sapienza ", Rome

Tutor of "Scientific English" for students of the Degree in Medicine and Surgery

### 2008 - 2009

School of Medicine, University "La Sapienza ", Rome

Assistant at the "Museum of Pathological Anatomy"

## PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE  
OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills
- Reading skills
- Writing skills
- Verbal skills
- Reading skills
- Writing skills
- Verbal skills

### ITALIAN

#### ENGLISH

EXCELLENT

GOOD

GOOD

#### SPANISH

EXCELLENT

GOOD

EXCELLENT

#### FRENCH

GOOD

ELEMENTARY

ELEMENTARY

	<b>ARABIC</b>
• Reading skills	No
• Writing skills	No
• Verbal skills	GOOD
ORGANISATIONAL SKILLS AND COMPETENCES	<p>Good experience in project management or groups.          Good social interaction due to experiences such as childcare.          Good organizational skills due to experience as a counselor and teacher for children and students</p>
ARTISTIC SKILLS	Singing and playing music; to play Capoeira; dancing; sailing
	<b>RESEARCH ACTIVITIES:</b>
	Chemistry and biochemistry of organic natural compounds as modulators of oxidative stress in pathological processes. Study of biological effects of polyphenolic antioxidants and chemical properties of natural biopolymers for pharmaceutical purposes
TECHNICAL SKILLS AND COMPETENCES	Chromatography: HPLC, reverse phase, gel filtration, ion exchange. Spectroscopy: spectrophotometry, spectrofluorimetry, infrared spectroscopy and circular dichroism. Cell cultures. Mono- and bi-dimensional electrophoresis, Western blotting
FUNDING AND GRANTS	<p>Winner of the project "Start to research" part of the <i>Ateneo 2014</i> financing of "Sapienza" University of Rome</p> <p>Winner of the project "Start to research" part of the <i>Ateneo 2015</i> financing of "Sapienza" University of Rome</p>
	<p>Excellent knowledge of :</p> <ul style="list-style-type: none"> <li>• Microsoft Office <sup>TM</sup> (Word <sup>TM</sup>, Excel <sup>TM</sup> and PowerPoint <sup>TM</sup>).</li> <li>• Graphic design applications (Adobe Illustrator <sup>TM</sup>, ImageJ).</li> <li>• Internet, data bank and bioinformatic analysis and chemical structure design (ACD labs; ChemDraw)</li> <li>• Windows OS.</li> </ul>
DRIVING LICENCE(S)	B

## ADDITIONAL INFORMATION

### Scientific publications:

- Hyaluronic 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* (2016) submitted
- 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
- $\beta$ -Sheet interfering molecules acting against  $\beta$ -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
- 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.* (2015) 1-5
- Halogenated triazinediones behave as antagonists of PKR<sub>1</sub>: in-vitro and in-vivo pharmacological characterization  
Lattanzi R, Congiu C, Onnis V, Deplano A, Salvadori S, Marconi V, Maffei 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)- $\beta$ -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  $\alpha$ -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  
Bertollini C, Murana E, Mosca L, D'Erme M, Scala F, Francioso A, Catalano M, Limatola C, Bregestovski P, Di Angelantonio S, Ragozzino D  
*Frontiers Mol. Neurosci.* (2012) 5:100

### Seminars and congresses attended

- - " $\beta$ -sheet breakers in the fibrillogenesis and aggregation of amyloid: an update on chemical mechanisms and potential applications", 16-17 Novembre 2012, Sapienza Università di Roma, Italia
- - "7<sup>th</sup> International Symposium: Mass Spectrometry and related techniques in Advanced Analytical Science", 23-24 Aprile 2013, WATERS, Manchester, United Kingdom

- - “Incontri di Scienza delle Separazioni: Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali”, 28-29 Novembre 2013, Università di Messina, Italia
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- - “Nanoscience and Nanotechnology 2014”, 6-7 Ottobre 2014, I.N.F.N. Frascati, Italia
- 
- - “Nanoscience and Nanotechnology annual meeting 2015”, Sept 28th- Oct 2nd 2015, I.N.F.N. Frascati, Italia

#### **Abstracts and conferences:**

Improved Stability of *trans*-Resveratrol in Aqueous Solutions by Carboxymethylated (1,3/1,6)- $\beta$ -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

*2<sup>nd</sup> 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

*5<sup>th</sup> European Congress of Virology* (2013) Lyon, France

Cellular response to oxidative stress induced by Amyloid  $\beta$ -peptide: in vitro and in vivo studies

Mosca L, Consalvi V, Chiaraluca 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) 278: 257-257.