

Paola Fossa

Associate professor

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Education and training

1987

M.S. Degree in Medicinal Chemistry (CTF)

110/110 cum laude

University of Genova - Genova - IT

1988

M.S. Degree in Pharmacy

110/110 cum laude

University of Genova - Genova - IT

1992

PhD in Pharmaceutical Sciences

University of Genova - Genova - IT

Academic experience

1995 - 2005

Researcher

University of Genova - Genova - IT

Synthesis of heterocyclic compounds with potential therapeutic activity
computational chemistry

1996 - 1997

Visiting scientist at Dipartimento Farmaco-Chimico Bari University (Italy)

University of Bari - Bari - IT

Experimental LogP determination by different techniques QSAR and 3D-
QSAR studies.

1997

Visiting scientist at Institut fur Pharmazeutische Chemie Dusseldorf University (Germany)

Dusseldorf University - Dusseldorf - DE

Computational chemistry

Work experience

1987 - 1989

**Research Fellowship founded by Istituto Scientifico
Tumori IST Genova**

IST - Genova - IT
molecular biology

1989 - 1991

PhD student in Pharmaceutical Sciences

University of Genova - Genova - IT
research activity in synthetic organic chemistry

1992 - 1995

**Chemist at the Food Drug and Environmental Control
Laboratories Provincia di Genova Genova**

Provincia di Genova - Genova - IT
quantitative analysis on food and chemical pollutants

1995 - ONGOING

Researcher and then Associate Professor

University of Genova - Genova - IT
Research activity in medicinal chemistry synthesis and computer assisted drug design.

Language skills

English

Proficient

Italian

Mother tongue

Research interests

Paola Fossa research activity mainly concerns the application of computational strategies in medicinal chemistry, focused to the rational design of ligands for cannabinoid receptors (CB1 and CB2), serotonergic receptors (5HT1 and 5HT2), Trace amine associated receptors (TAARs), F508del-CFTR and cyclic nucleotide phosphodiesterases (PDEs). Previous research topics: adenosine receptors ligands, non nucleosides HIV-1 reverse transcriptase inhibitors and COX1/COX2 inhibitors. In

details: application of computational strategies to medicinal chemistry issues (docking, molecular dynamics, homology modelling, pharmacophoric maps, QSAR and 3D-QSAR, fragment based drug design, ADME-TOX prediction properties), synthesis of heterocyclic compounds. She has published about 120 papers and has fruitful scientific collaborations with Department of Life Sciences, University of Modena and Reggio Emilia, Institute of Biomedical Technology IBT, CNR, Segrate (MI), Macromolecular Interaction Analysis Unit, Department of Molecular and Translational Medicine, University of Brescia, Department of Chemistry and Pharmacy, University of Sassari, Institute of Biological Chemistry, University of Vienna, Department of Neuroscience and Brain Technologies, Istituto Italiano di Tecnologia, Genoa, Institute of Translational Biomedicine, St. Petersburg State University, Department of Pharmacy, University of Pisa, plus collaboration with two research groups of Genoa University: Department of Neuroscience, Rehabilitation, Ophthalmology, Genetics and Maternal and Child Health, Section of Medical Genetics, Department of Experimental Medicine, Section of Biochemistry. She is referee for a number of medicinal chemistry journals and

she has been responsible of different research projects funded by MIUR, University of Genova, Italian Cystic Fibrosis Foundation.