



Silvia Schenone

Full professor

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Education and training

2016

Full professor

Università di Genova - Genova - IT

2004

Associated Professor

Università di Genova - Genova - IT

1992

Researcher

università di Genova - Genova - IT

Academic experience

2018 - ONGOING

Direttore del Dipartimento di Farmacia

Università di Genova - Genova

Direzione del Dipartimento

Work experience

Nessuna

nessuna

Language skills

English

Independent

Teaching activity

Prof. Silvia Schenone taught and teaches in the degree courses of Pharmacy, Medicinal chemistry (CTF) and Biotechnologies at the Università degli Studi di Genova within her sector, CHIM08, Medicinal Chemistry. From 1992 to 1996, as a researcher, she taught in the the lab exercises of the courses of Analisi dei Medicinali I (Farmacia), Analisi dei Medicinali II (CTF), Analisi dei Medicinali III (Farmacia), Analisi dei Farmaci (CTF) From 1996 to 2013 she held the course of Analisi dei Medicinali II (CTF)

From 2013 to 2015 she taught Chimica Farmaceutica e Tossicologica I (Farmacia) and Chimica Farmaceutica, Biotecnologie Farmaceutiche e laboratorio for the degree course of Biotechnology

From 2016 to the present she is teaching Chimica Farmaceutica e Tossicologica I (CTF) and Chimica Farmaceutica, Biotecnologie Farmaceutiche e laboratorio for the degree course of Biotechnology.

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral fellows

During my career, I was the supervisor of many PhD students and post doc students.

Currently (2020), I am the supervisor of one PhD students and of three post doc students.

I have always had good relationships with students. One of them has recently became researcher at the University of Genoa, while the others work in pharmaceutical companies.

Research interests

My research activity is mainly focused on the design and the synthesis, often suggested by molecular modeling studies, of small organic molecules, in particular heterocyclic compounds, endowed with different biological activities. Recently, I synthesized a wide library of pyrazolo[3,4-*d*]pyrimidines and pyrrolo[2,3-*b*]pyrimidines as cytoplasmic tyrosine kinase inhibitors active as anticancer agents. I'm also involved in the evaluation of the ADMETox (Adsorbition, Distribution, Metabolism, Excretion and Toxicity) properties of these derivatives. Many of these compounds are strong inhibitors of the cytoplasmic kinases Src and Abl, which are overexpressed in many cancers.

Many of these molecules resulted active in enzymatic and cell assays and also in in vivo test. With the collaboration of computational chemistry groups, my group and I are involved in the improvement of the activity of such derivatives.

Other compounds inhibit the serine-threonine kinase SGK1, which is involved not only in malignancies, but also in the metabolic syndrome. My interests also includes molecules active as adenosine receptors, anti-inflammatory agents and antiviral agents acting as inhibitors of the interaction of specific subunits of a viral protein.

Previously, I synthesized some series of ureic or thiourea derivatives possessing different biological activities. At the beginning of my scientific career, I also worked in the field of terpenic derivatives active as anti-inflammatory and analgesic agents.

My research work has led to the publication of 190 scientific papers and 6 patents.

Grants

2020 - ONGOING

Development of new theranostic prodrugs for targeting glioblastoma imaging studies and combination with temozolomide

AIRC - IT

circa 600.00 Euro - Pricipal investigator

2019 - ONGOING

Exploiting synergy in molecular targeted anticancer chemotherapy synthesis optimization mechanism of action determination and biological validation in cellular and animal models of novel molecules targeting convergent metabolic pathways in cancer

Miur - IT

118.682 Euro - Pricipal investigator

Editorial activity

I has been the reviewer of projects of projects from italian and foreign Universities.

I am one of the Editor of Bioorganic Chemistry

I am in the editorial board of Current Medicinal Chemistry, Molecules, and ACS Medicinal Chemistry Letters