Chiara Lambruschini

Fixed-term assistant professor

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Education and training

2013
PhD in Drug Discovery
Synthesis and Application of Fluorine-Containing Compounds to Fragment-Based Drug Discovery and Positron Emission Tomography
IIT- Italian Institute of Technology - Genova - IT

2009
Master degree in Chemical Sciences
Synthesis of polycyclic conjugated systems. Conformational analysis and study of photochromic activity - 110/110 cum laude
University of Genova - Genova - IT

2007
Bachelor degree in Chemistry
Chemical-physical characterization of fatty acid esters and alkaline earth metal stearates (performed at FACI S.p.A) - 110/110 cum laude
University of Genova - Genova - IT

Academic experience

2018 - ONGOING
Fixed-term Researcher
University of Genova - Genova - IT

2015 - 2018
Post-Doctoral Fellow
DCCI- University of Genova - Genova - IT
Use of multicomponent reactions for the preparation of organic molecules with potential applications

2014 - 2015
Post-Doctoral Fellow
IRCCS San Martino - National Intistitute for Cancer Reasearch - Genova - IT
Design and preparation by Ugi reaction of novel small-molecule as potential inhibitors of Stat3 dimer formation

2012 - 2013

Visiting PhD student

Harvard Univeristy - Boston - IT

Toward the Development of a New Synthetic Approach for 1-(2-deoxy-2-18F-fluoro-beta-D-arabinofuranosyl)cytosine (18FFAC) Involving a Late-Stage Fluorination

Language skills

Italian	English
Mother tongue	Proficient

Teaching activity

- Co-teaching: course 'Organic Chemistry' for 'Environmental and Natural Science'
- Teaching tutor: course 'Organic Chemistry 1' for 'Chemitry and Chemical Technologies'
- Co-supervisor of many master and bachelor thesis
- Lab teaching assistant: courses 'Organic Chemistry 2 and Laboratory' and 'Organic Chemistry and Laboratory'

Research interests

My research interests are in the organic synthesis field, both on methodological aspects and on the preparation of small molecules with potential applications. In particularly in the last years I have worked on:

- the use of multicomponent reactions for the efficient preparation of complex molecules starting from simple bio-based inputs
- the preparation of non-natural polyphenols through the Ugi multicomponent reaction and the study of their biological activity (in collaboration with ISMAC-CNR and DISTAV)
- the preparation of organic molecules and their conjugation to metalic nanoparticles for the drug delivery (in collaboration with Physical Chemistry and DIFI)

Grants

2018 - ONGOING

Design synthesis and evaluation of new STAT3 inhibitors

Compagnia di San Paolo - IT

Participant

2016 - 2018

From bio-inspired molecules to Alzheimer's disease prevention

Fondazione Cariplo - IT

Participant