

Alessia Griglio

PERSONAL DATA

Date of Birth 19.3.1990
Pinerolo (To)

BIO AND EDUCATION

11/2015–present: PhD Student in Chemistry & Biology

Department of Pharmaceutical Sciences (DSF), Università del Piemonte Orientale, Novara (Italy)

02/2017-05/2017: Didactic Tutor

Department of Pharmaceutical Sciences (DSF), Università del Piemonte Orientale, Novara (Italy)

Didactic tutor in Organic Chemistry for students attending degree in Pharmacy and Medicinal Chemistry and Technology

09/2009–03/2014: Master of Sciences in Pharmacy (MPharm)

Department of Pharmaceutical Sciences (DSF), Università del Piemonte Orientale, Novara (Italy)

Final mark: 110/110 cum Laude

09/2005–07/2009: High School Diploma

“Liceo Scientifico Informatico (PNI)”, Maria Curie, Pinerolo (Italy)

Final mark: 80/100

SCIENTIFIC POSITIONS

2016-present	Member of the Italian Chemistry Society (SCI) Division of Pharmaceutical Chemistry
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MAIN FIELDS OF INTEREST

1. Drug design
2. Click chemistry
3. Isocyanide based multicomponent reactions

CURRENT ISSUES OF RESEARCH

1. Discovery of modulators of the Store Operated Calcium Entry (SOCE)

The Store Operated Calcium Entry (SOCE) is a calcium influx pathway that plays a central role in immune cells, platelets and skeletal muscle. Consequently, perturbations in this process are responsible for several diseases such as cancer, autoimmune disorders, metabolic disorders and rare genetic disorders. Doctor Griglio works on the synthesis of new modulators of SOCE that would be useful in certain diseases.

2. Synthesis of Indoleamine 2,3-dioxygenase (IDO1) inhibitors

Since the discovery that IDO1 is overexpressed in various types of cancer, it has been emerging as a promising target for cancer immunotherapy. Doctor Griglio is currently interested in the design and synthesis of IDO1 inhibitors, via multicomponent reactions and

click chemistry approach.

PUBBLICATIONS

1. Identification of a Potent Phosphoinositide 3-kinase (PI3K) Pan Inhibitor Displaying a Strategic Carboxylic Acid Group and Development of its Prodrugs; Tracey Pirali, Elisa Ciruolo, Silvio Aprile, Alberto Massarotti, Berndt Alex, Alessia Griglio, Marta Serafini, Valentina Mercalli, Clarissa Landoni, Carlo C. Campa, Jean P. Margaria, Rangel L. Silva, Giorgio Grosa, Giovanni Sorba, Roger Williams, Emilio Hirsch and Gian Cesare Tron, *ChemMedChem*. 2017, 12, 1542-1554.
2. An Aryne-Based Three-Component Access to α -Aroylamino Amides; Marta Serafini, Alessia Griglio, Sara Viarengo, Silvio Aprile and Tracey Pirali, *Org. Biomol. Chem. Lett.* 2017, 15, 6604-6612.

AWARDS

Best student Award Università del Piemonte Orientale, Department of Pharmaceutical Sciences (DSF), academic year 2013/2014