



Claudio Iacobucci

Marie Skłodowska-Curie Fellow
Chiesi - Preclinical R&D

e-mail: iacobucci.claudio@gmail.com



I obtained a Ph.D. in Chemistry studying the mechanism of organic and organometallic reactions by mass spectrometry under the joint supervision of Prof. F. De Angelis (University of L'Aquila) and Prof. J.-F. Gal (University of Nice Sophia Antipolis, France) in 2016.

Then, I moved to University of Brest (France) as postdoc in the group of Prof. A. Memboeuf. There, I setup an apparatus for sequential gas-phase reactions to unveil the elementary steps of complex organometallic reactions.

After having been awarded an individual Humboldt Research Fellowship for postdoctoral researchers I joined the group of Prof. A. Sinz (Martin Luther University Halle-Wittenberg, Germany). My Humboldt project focused on the development of novel chemical cross-linkers for studying 3D-structure of proteins and protein complexes.

In 2019, I have been awarded with a Marie Skłodowska Curie Individual Fellowship and I joined Chiesi Pharmaceuticals in Parma. There, I integrated protein cross-linking and other chemical proteomic methods in the the drug development pipeline, from target identification to discovery.

Thursday March 18, 2021
online on TEAMS
at 15.00

Chemistry at the edge of structural biology

In each cell, thousands of proteins are involved in highly complex and dynamic communities. Protein complexes comprising up to dozens of components are part of even larger protein assemblies. Drug treatments further complicate this overall picture. Drug binding causes protein conformational changes and the remodeling of protein networks.

Thus, elucidating the mechanisms underlying biological processes depends on understanding the functional organization of proteins in time and space.

Strikingly, organic chemistry is gaining more and more attentions in this research area.

Innovative chemical tools such as cross-linkers and photo-activatable drugs in combination with mass-spectrometry can respond to unmet needs in structural biology and drug discovery. Understanding the solution-phase and gas-phase chemistry of those molecules is key to disentangle the functional framework within cells.

To connect to the TEAM, if members of UNIGE, use the following code: Iziywqi. If you are not a UNIGE member, please ask in advance Prof. Luca Banfi to add you as a guest to the team. For further informations on this specific seminar or in order to ask for an appointment with the speaker after or before the seminar, contact **Prof. Luca Banfi**, room 811 ☎ +39 010 3566111 e-mail: banfi@chimica.unige.it