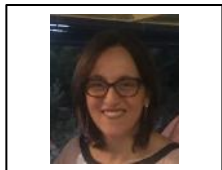


Chemistry Tools for Synthesis (CTS)



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OTHER GROUP MEMBERS:

Dr. Reinier Lemos (postdoc, University of La Habana)

Dr. Giovanna Cimmino (PhD student University of Campania “Luigi Vanvitelli”)

Dr. Claudia González Castro (PhD student)

Dr. Mauro De Nisco (visiting professor, University of Basilicata)

Prof. Michele Manfra (visiting professor, University of Basilicata)

RESEARCH LINES:

The general scientific interest of the research group lies mainly in the field of ORGANIC SYNTHESIS, involving amino acids, sugars, and small aromatic heterocycles.

We focus projects at the intersection between the discovery of the new reactions and reactivity, the development of this into powerful synthetic methodology and its application to the synthesis of molecules of biological significance.

Furthermore, we aim to make our chemistry accessible to the majority of organic synthesis chemists by making the reactions technically simple to perform, efficient, scalable, selective and broad in scope.

Ongoing Project:

- Design and synthesis of new seleno-glycoconjugates with antioxidant activity.
- Design and synthesis of short peptides as new β -sheet breakers.
- Design and synthesis of new organocatalysts containing aminoacids and/or Se/Te, for enantioselective reactions in aqueous medium.



Main collaborations:

Prof. Claus Jacob (Universität des Saarlandes, Saarbrücken, Germany)

Prof. Stephen Hanessian (University of Montréal, Montreal, Canada)

Prof. Severina Pacifico (University of Campania “Luigi Vanvitelli”, Caserta, Italy)

Dott. Yosef Mahajnah (Avicenna Natural Institute s.r.l, Baiano, Italy)

Prof. Dr. Margarita Suárez and Dr. Y. Pérez-Badell (Universidad de La Habana, La Habana, Cuba)