

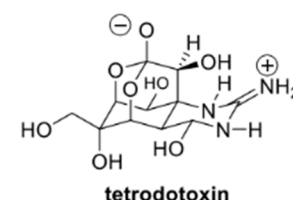
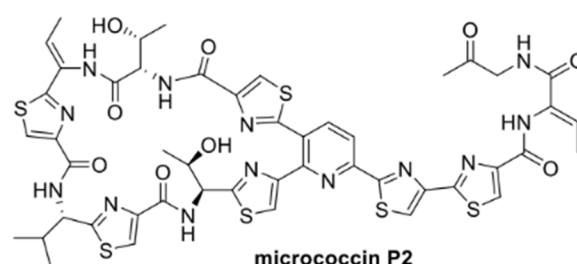
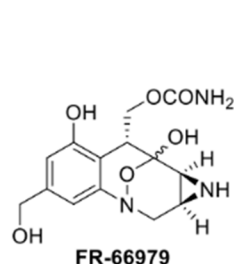
Prof. Marco Ciufolini

Department of Chemistry, UBC Faculty of Science
Vancouver Campus
2036 Main Mall, Vancouver, BC Canada V6T 1Z1
ciufi@chem.ubc.ca

Masitinib, Onpattro, and Beyond: The Central Role of Synthetic Organic Chemistry

Martedì 10 Dicembre 2024, ore 14.30,
aula A «Nasini»

This presentation outlines some examples of how academic research in synthetic organic chemistry enabled the development of valuable medicinal agents. The talk will highlight efforts on complex natural products such as thiopeptides, mitomycinoids, tetrodotoxin, etc. (structures below), leading to novel antibiotics, tyrosine kinase inhibitors, antitumor compounds with a unique mechanism of action, novel lipids for the delivery of nucleic acid therapeutics, and select other agents. The focus of the seminar is the development of new medicines. Therefore, the talk eschews specialist aspects of how and why natural product targets are selected, and how academic synthetic campaigns are planned and executed. The presentation should thus be readily accessible to a broad audience of faculty, graduate students, and undergraduates.



For selected references, see:

1. *J. Med. Chem.* **2023**, 66, 14263.
2. *Nature Commun.* **2023**, 14, 3079y.
3. *Org. Biomol. Chem.* **2022**, 20, 1893.
4. *Small* **2021**, 17, 2103025.
5. *Nat. Nanotechnol.* **2019**, 14, 1084.
6. *Nat. Biotechnol.* **2010**, 28, 172-U18.
7. *PLoS ONE* **2009**, 4, e7258.

La presenza della S. V. sarà molto gradita.

Prof. Stefano Mammi
Direttore del Dipartimento
di Scienze Chimiche



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