



# Repositioning Natural Products in Drug Discovery

## Scientific Program

FRIDAY, JANUARY 17<sup>th</sup>, 2020.  
ROOM U1.3, Department of Life Science  
University of Modena and Reggio Emilia

|                                                                    |                                                                                                                                                                                                                                |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.30 –                                                             | REGISTRATION                                                                                                                                                                                                                   |
| 9.00 – 9.15                                                        | OPENING                                                                                                                                                                                                                        |
| Plenary Lecture – <b>Chairs:</b> Giulio RASTELLI, Federica PELLATI |                                                                                                                                                                                                                                |
| 9.15-10.00<br>PL                                                   | Jean Luc <b>WOLFENDER</b><br>Université de Genève<br>“New integrated strategies for the rapid and efficient identification of bioactive natural products”                                                                      |
| 1 <sup>o</sup> session - <b>Chair:</b> Giulio RASTELLI             |                                                                                                                                                                                                                                |
| 10.00 – 10.25                                                      | Stefano <b>ALCARO</b><br>Net4Science, Università Magna Graecia di Catanzaro<br>“The multi-target drug discovery paradigm applied to natural product repositioning”                                                             |
| 10.25 – 10.50                                                      | Annachiara <b>TINIVELLA</b><br>Università degli Studi di Modena e Reggio Emilia<br>“Identification of novel potent Carbonic Anhydrase inhibitors through an integrated in silico drug repurposing workflow”                    |
| 10.50 – 11.15                                                      | Rino <b>RAGNO</b><br>Università degli Studi di Roma “La Sapienza”<br>“Machine Learning algorithms to derive quantitative composition-activity relationships for chemical mixture. Application to antimicrobial essential oils” |
| 11.15 – 11.45                                                      | COFFEE BREAK                                                                                                                                                                                                                   |
| 2 <sup>o</sup> session - <b>Chair:</b> Federica PELLATI            |                                                                                                                                                                                                                                |
| 11.45 – 12.10                                                      | Orazio <b>TAGLIALATELA-SCAFATI</b><br>Università di Napoli “Federico II”<br>“Recent drugs or drug candidates based on plant terpenoids”                                                                                        |
| 12.10 – 12.35                                                      | Giovanna <b>PETRANGOLINI</b><br>Indena<br>“Botanical extracts for health application: the complexity of phytochemical profiles and the industrial quality”                                                                     |
| 12.35 – 13.00                                                      | Maria Chiara <b>MONTI</b><br>Università degli Studi di Salerno<br>“A functional proteomic-based platform to disclose natural products cellular targets”                                                                        |
| 13.00 – 14.30                                                      | LUNCH                                                                                                                                                                                                                          |
| 3 <sup>o</sup> session - <b>Chair:</b> Maria Cristina GAMBERINI    |                                                                                                                                                                                                                                |
| 14.30 – 14.55                                                      | Bruno <b>BOTTA</b><br>Università degli Studi di Roma “La Sapienza”<br>“Challenging organic synthesis inspired by nature: from natural products chemistry to drug discovery”                                                    |
| 14.55 – 15.20                                                      | Daniele <b>PASSARELLA</b><br>Università degli Studi di Milano<br>“Natural products as building blocks in self-assembled nanoparticles”                                                                                         |
| 15.20 – 15.45                                                      | Angelo <b>FONTANA</b><br>Consiglio Nazionale delle Ricerche (CNR), Napoli<br>“Marine natural products and development of immunotherapeutics”                                                                                   |
| 15.45 – 16.10                                                      | Federica <b>PELLATI</b><br>Università degli Studi di Modena e Reggio Emilia<br>“New analytical tools and bioactivity of non-psychoactive Cannabis sativa L.”                                                                   |
| 16.10 – 16.30                                                      | CLOSING REMARKS                                                                                                                                                                                                                |