

I International Summer School on Natural Products *“Luigi Minale” and “Ernesto Fattorusso”*

Naples, July 6-10, 2015

Stazione Zoologica
“Anton Dohrn”

PROGRAMME

Organizing Committee

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Monday, 6

TARGET ORIENTED DISCOVERY

Morning session

8:30-10:00 Registration, Stazione Zoologica “Anton Dohrn”

9:00 **Opening session**

10:00 **Patrizia Ciminiello**

Ernesto Fattorusso: a magic way of merging humanity and science in a wonderful piece of art

10:30 **L1: Maria Valeria D’Auria**, *University of Naples Federico II, Italy*

Targeting Nuclear Receptors For The Treatment Of Metabolic And Inflammatory Diseases: A Lesson From Nature

11:15 **L2: Rosa Lanzetta**, *University of Naples Federico II, Italy*

How To Unravel The Complex Carbohydrate Structures And....Why

12:00 Lunch

Afternoon Session

14:00 **PL1: Giuseppe Astarita**, *Georgetown University, Washington, DC- USA*

Emerging Metabolomics And Lipidomics Approaches

15:00 **L3: Andrea Scaloni**, *ISPAAM Institute CNR, Italy*

Quantitative Proteomics To Evaluate The Effect Of Natural Products On Biological Systems

16:00 **L4: Agostino Casapullo**, *University of Salerno, Italy*

Chemical Proteomics: A Powerful Tool For Target Discovery Of Bioactive Molecules

17:00 **Communications and Open discussion**

C1: Genoveffa Nuzzo, *Institute of Biomolecular Chemistry, Italy*

Studies On Bioactive Metabolites From Protists Of Mediterranean Area

C2: Luana Riccobono, *University of Palermo, Italy*

Chemical Composition And Potential Biological Activity Of *Tetraclinis Articulata* (Vahl) Mast. Growing In Tunisia

C3: Catarina Vizetto-Duarte, *University of Algarve, Portugal*

Potential Pharmaceutical Use Of *Cystoseira* Species: Insights Into The Mechanism Of Action

Tuesday, 7

FROM NATURE TO THE BOX

Morning session

- 9:00 **PL2: Stéphane Quideau**, *University of Bordeaux I, France*
Gallic Acid-Derived Polyphenols - From The Plant To The Cell Under The Auspices Of Dionysos
- 10:00 **L5: Fabrizio Giordanetto**, *Taros Chemicals GmbH & Co. Germany*
Approximation Of Natural Products To Design Compound Libraries For High Throughput Screening
- 11:00 **L6: Alessandra Napolitano**, *University of Naples Federico II, Italy*
Natural And Bioinspired Polyphenols With Antioxidant Properties For Health And Food Applications
- 12:00 Lunch

NUTRACEUTICAL

Afternoon Session

- 14:00 **PL3: Giovanni Appendino**, *University of Eastern Piedmont, Italy*
Complexity Can Be Beautiful, But Simplicity Works Better. Getting Confused Ideas And Nebulous Concepts Out Of Nutraceutical Research.
- 15:00 **L7: Gian Carlo Tenore**, *University of Naples Federico II, Italy*
Mediterranean Functional Foods As Sources Of Nutraceuticals
- 16:00 **L8: Alessandra Storzini**, *Indena S.p.a, Italy*
Health Claims: A European Perspective
- 17:00 **Communications and Open discussion**
- C4: Carmen Festa**, *University of Naples Federico II, Italy*
Discovery of Amine Bile Acid Derivatives as Selective Agonists of Cell-surface G-protein Coupled Bile Acid Receptor 1
- C5: Cristina Marucci**, *University of Milan, Italy*
Nature Suggested Hybrid Compounds As New Tubulin Binders
- C6: Mariana Alves Reis**, *University of Lisbon, Portugal*
Tackling Multidrug Resistance in Cancer
- C7: Andreia Marina Oliveira Mónico**, *University of Lisbon, Portugal*
Molecular Derivatization Of Lathyrane Diterpenes From *Euphorbia Boetica*

18:00 Wine and Cheese

Wednesday, 8

GENOMICS AND BIOSYNTHESIS

Morning session

- 9:00 **L9: Alfonso Mangoni**, *University of Naples Federico II, Italy*
An Introduction To The Biosynthesis Of Polyketides And Non-Ribosomal Peptides

- 10:00 **PL4: William H. Gerwick**, *UC San Diego, USA*
Discovery And Biosynthesis Of Biologically Active Marine Cyanobacterial Natural Products Using Genomic Methods
- 11:00 **L10: Angelo Fontana**, *Institute of Biomolecular Chemistry, Italy*
What Do We Really Know About The Biosynthesis In Marine Eukaryotes? Lesson From Opisthobranchs And Microalgae
- 12:00 Lunch
- 13:30-16:30 **Poster session and coffee**
- 14:30 **Alfonso Mangoni**, *University of Naples Federico II, Italy*
Farmabionet, The Campania Network For Biotechnology Applied To Pharmacologically Active Compounds
- 15:30 **Communications and Open discussion**
- C8: Cristina-Nicoleta Alexandru-Crivac**, *University of Aberdeen, Scotland*
Exploring RiPP Biosynthetic Pathways in a Quest for a Novel Macrocyclase with Improved Catalytic Properties
- C9: Sara Freitas**, *University of Porto, Portugal*
Mechanisms Involved In The Cytotoxicity Of Marine Picocyanobacteria Strains Against The RKO Colon Adenocarcinoma Cell Line
- C10: Roberta Teta**, *University of Naples Federico II, Italy*
Novel Metabolites From Microorganisms Using Molecular Networking
- 16:30 **Tour - Visit to the Aquarium of the Zoological Station "Anton Dohrn"**
- 17:30 **Tour - Discovering Napoli...underground: Tunnel Borbonico**

Thursday, 9

HORIZON 2020

Morning session

- 9:00 **PL5: Valter Pagani**, *CEERNT-EUC Group, Belgium*
Marie S. Curie Actions An Opportunity Of Excellence For European Researchers
- 10:00 **L11: Marina Mauro**, *Murgitroyd & Co., Italy*
Brief Introduction To Patents
- 11:00 **Practical session**
- 12:00 Lunch

CHEMICAL ECOLOGY

Afternoon Session

- 14:00 **PL6: Conxita Avila Escartin**, *University of Barcellona, Spain*
How To Survive In The Cold: Chemical Ecology In Antarctica
- 14:50 **PL7: Peter Schupp**, *University of Oldenburg, Germany*
Role Of Marine Natural Products During Invertebrate Settlement: Examples From Scleractinian Coral Reproduction
- 15:40 **L12: Raffaella Casotti**, *Anton Dohrn Zoological Station, Italy*
The Ecological Role Of Natural Products From The Marine Plankton
- 16:30 **L13: Ernesto Mollo**, *Institute of Biomolecular Chemistry, Italy*
Marine Natural Products As Warning Signals

17:00 **Communications and Open discussion**

C11: Kumar Saurav, *University of Haifa, Israel*

Quorum Sensing And Its Inhibitors Co-Existence In Mediterranean And Red Sea Sponges And Their Potential For Anti Virulence Therapy

C12: Juan Moles, *University of Barcelona, Spain*

Anti-Predatory Chemical Defences In Antarctic Benthic Fauna

18.30 **Guided walk-tour** by "Lo Spazio" from P.zza Plebiscito to Spaccanapoli

19:00 – 21:30 **Social Happy Hour**

Friday, 10

Morning session

9:00 **L14: Marialuisa Menna**, *University of Naples Federico II, Italy*

Exploring 3D Shapes Of The Molecules: The Great Endeavour In Natural Products Research

10:00 **Communications and Open discussion**

C13: Nunzio Cardullo, *University of Catania, Italy*

Biomimetic Synthesis And Biological Evaluation Of New Natural-Related Neolignanamides

C14: Lucia Ferrazzano, *University of Bologna, Italy*

Design And Synthesis Of Integrin Ligands As "Molecular Shuttles" For Drug And Fluorescent Molecules Delivery

C15: Angela Paterna, *University of Lisbon, Portugal*

Apoptosis Inducing Activity Of A Small Library Of Monoterpene Indole Alkaloids In Human Colon (HCT116) And Liver (Hepg2) Carcinoma Cells

C16: Catarina Alexandra Guerreiro Pereira, *University of Algarve, Portugal*

Plantago Coronopus: Phytochemical Profile And Antioxidant Potential Of A Medicinal Edible Halophyte

C17: Brunella Pinto, *University of Naples Federico II, Italy*

Synthesis Of A Novel Cadpr Derivative Modified At The Base And Pyrophosphate Bridge

C18: Maria João Rodrigues, *University of Algarve, Portugal*

Juncunol: A Cytotoxic Drug Isolated From *Juncus Acutus*

12:00 **Conclusions and Remarks**