Detailed Program

Sunday, September 1, 2019

15:00 – 17:30 Registration of participants

17:00 – 17:30 Opening Ceremony

17:30 – 19:00 Opening Lectures

KS1: William Fenical :: University of California San Diego
Exploiting Where Chemistry and Biology Collide

KS2: Vassilios Roussis :: National and Kapodistrian University of Athens
The Big Ones Revisited: Marine Biopolymers for Biomedical Applications

19:00 Welcome Reception

Monday, September 2, 2019

09:00 – 12:30 Session 1. Chemical Ecology and Ecosystem Functioning
Chairwoman | Gabriele M. König

09:00 – 09:45 PL1. Eric Schmidt :: University of Utah
Biosynthesis and Ecology of Metabolites in the Marine Mollusks

09:45 – 10:00 OC1. Peter J. Schupp :: Carl-von-Ossietzky University
Exploration of Deep-Water Sponges Yields new Sponge Species, Novel Microbiomes and Potentially New Bioactive Compounds

10:00 – 10:15 OC2. Deniz Tasdemir :: GEOMAR
Mapping Seaweed and Seagrass Surfaces by Untargeted Metabolomics and DESI-Mass Spectrometry Imaging Integrated with Microbiome and Bioassay Studies

10:15 – 11:00 OC3. Alejandra Prieto-Davó :: Universidad Nacional Autónoma de México
Interdisciplinary Approach to Study the Biotechnological Potential of Microbial Communities from Mangrove Sediments in Sisal, Yucatan, Mexico

11:00 – 11:15 OC4. Nicole Avalon :: University of South Florida
Establishment of the Core Microbiome of the Ascidian Synoicum adareanum near Palmer Station, Antarctica

11:15 – 11:30 OC5. Marine Vallet :: Max Planck Institute
Natural Products Involved in Parasite-Micro Algae Interactions

11:30 – 11:45 OC6. Alexander Bogdanov :: University of Bonn
The Phylidiella pustulosa Species Complex (Gastropoda, Nudibranchia): Do Secondary
Metabolites Aid in Species Delimitation?

11.45 – 12.30  PL2. Georg Pohnert :: Friedrich Schiller University
Exploration of Chemical Signals from Marine Microalgae that Structure the Marine Environment

12:30 – 14:00 Lunch

15:00 – 19:00 Session 2. Isolation and Structure Elucidation of Marine Natural Products
Chairwoman | RuAngelie Edrada-Ebel

14:00 – 14:45 PL3. Jon Clardy :: Harvard Medical School
Elusive Microbial Metabolites

14:45 – 15:00 OC7. Tadeusz F. Molinski :: University of California San Diego
Marine Natural Products from Invertebrates. “Necessity is the Mother of Invention”

15:00 – 15:15 OC8. William Gerwick :: University of California San Diego
Tutuilamides A-C: Vinyl-Chloride Containing Cyclodepsipeptides from Two Marine Cyanobacteria

Chemical Investigation of Tongan Invertebrates

15:30 – 15:45 OC10. Dehai Li :: Ocean University of China
Bioactive Secondary Metabolites from Deep-Sea Derived Microorganisms, Discovery and Extending

15:45 – 16:15 Coffee break

16:15 – 16:30 OC11. Louise Forster :: University of Queensland
Inconspicuous Carbon NMR Signals and Fluxional Effects Complicate the Structural Elucidation of Noriterpenes from Goniobranchus coi

16:30 – 16:45 OC12. Kevin Calabro :: National University of Ireland Galway
Marine Polychaetes as an Untapped Source of Chemical Diversity: Case Study of the Irish Intertidal Terebellid Eupolyommia Nebulosa

16:45 – 17:30 PL4. Angelo Fontana :: Consiglio Nazionale delle Ricerche (BOCU)
Natural Products of Marine Protists – from Basic Research to Novel Immunomodulatory Agents

17:30 – 19:00 Poster session :: Scientific Themes 1 and 2 | TASCMAR Workshop

Tuesday, September 3, 2019

09:00 – 17:00 Cultural Day :: Tour 1 or Tour 2
Wednesday, September 4, 2019

09:00 – 12:30  Session 3. Drug Discovery and Development
Chairwoman | Carmen Cuevas

09:00 – 09:45  PL5. José María Fernández :: PharmaMar
Nobody is a Prophet in His Own Land. The Aplidin® Story

09:45 – 10:00  OC13. Ronald J. Quinn :: Griffith University
Pheno-Target Screening: Combining Cell Assays and Target Identification

10:00 – 10:15  OC14. Daniela B. B. Trivella :: Brazilian Center for Research in Energy and Materials (CNPEM)
NP3 Platform: Combined Protein Crystallography and MS-Based Metabolomics to Empower Natural Product Drug Discovery

10:15 – 10:30  OC15. Hosana M. Debonsi :: University of São Paulo
Antiparasitic Metabolites Isolated from the Antarctic Algae-Associated Fungus: *Penicillium echinulatum*

10:30 – 11:00  Coffee break

11:00 – 11:15  OC16. Nuna Araújo :: CCMAR | University of Algarve
Amentadione, a Meroditerpenoide from Brown Algae with Capacity of Modulating Osteoarthritis Responses, in a Close-to-In-Vivo OA Model

11:15 – 11:30  OC17. Brian T. Murphy :: University of Illinois at Chicago
A New Paradigm to Maximize Taxonomic and Natural Product Space in Microbial Libraries

11:30 – 11:45  OC18. Paula C. Jimenez :: Universidade Federal de São Paulo
A Target-Oriented Approach for Bioprospecting IAP Modulators in Extracts from Marine Bacteria

Mega-Metabolomic Exploration of Aquatic Microbiomes for Drug Discovery

12:30 – 14:00  Lunch

15:00 – 19:00  Session 4. Biosynthesis of Marine Natural Products
Chairman | Matthew Crump

14:00 – 14:45  PL7. Bradley S. Moore :: University of California San Diego
Emerging Platforms and Opportunities in Marine Natural Product Biosynthesis

14:45 – 15:00  OC19. David P. Fewer :: University of Helsinki
Comparative Genomics Unravels Cryptic Diversity in the Cyanobactin Biosynthetic
Pathway

15:00 – 15:15 **OC20. Franziska Hemmerling** :: Swiss Federal Institute of Technology (ETH)
Single-Bacterial Genomics, Raman Spectroscopy, and Biochemical Studies Identify Metabolic Functions of Uncultivated Marine Microbiota

15:15 – 15:30 **OC21. Matthew Crump** :: University of Bristol
Nuclear Magnetic Resonance, Mass Spectrometry and Chemical Probes in Natural Product Biosynthesis.

15:30 – 15:45 **OC22. Chris Willis** :: University of Bristol
A Symbiosis of Synthesis and Synthetic Biology in the Elucidation of Polyketide Biosynthesis

15:45 – 16:15 **Coffee break**

16:15 – 16:30 **OC23. Laurence Maschio** :: University of Bristol
Structural and Functional Dissection of an Enzymatic Natural Product Assembly Line

16:30 – 16:45 **OC24. Jia Jia Zhang** :: University of California San Diego
Avant-Garde Assembly-Line Biosynthesis Expands Diversity of Cyclic Lipodepsipeptide Products

16:45 – 17:00 **PL8. Pedro N. Leão** :: CIIMAR | University of Porto
Fatty Acid Incorporation into Cyanobacterial Secondary Metabolites

17:00

**Poster session** :: Scientific Themes 3 and 4

**19:00** **Gala Dinner**

**Thursday, September 5, 2019**
10:15 – 10:30  OC27. Matthias Köck :: Alfred-Wegener-Institut für Polar- und Meeresforschung in der Helmholtz-Gemeinschaft
The Advanced Floating Chirality Distance Geometry Approach – How Anisotropic NMR Parameters Can Support the Determination of the Relative Configuration of Natural Products

10:30 – 11:00  Coffee break

11:00 – 11:15  OC28. Ethan Woolly :: Victoria University of Wellington
Designing New Agents for the Peloruside Binding Site

11:15 – 11:30  OC29. Efstathia Ioannou :: National and Kapodistrian University of Athens
Bioactive Metabolites from an Actinobacterial Strain *Streptomyces smyrnacinus*

11:30 – 11:45  OC30. C. Benjamin Naman :: Ningbo University
Discovery, Synthesis, and Biological Activity of New Cyanobacterial Natural Products from the South China Sea

11:45 – 12:30  PL10. Tobias A. M. Gulder :: Technical University of Dresden
Biocatalytic Total Synthesis of Complex Marine Microbial Metabolites

12:30 – 14:00  Lunch

15:00 – 19:00  Session 6. Marine Natural Products Chemical Biology and Biotechnology
Chairman | Norberto P. Lopes

14:00 – 14:45  PL11. Leticia V. Costa-Lotufo :: Instituto de Ciências Biomédicas, USP
Targeting Cancer Relevant Proteins with Marine Natural Products

14:45 – 15:00  OC31. Katherine R. Duncan :: University of Aberdeen
Defining Patterns in Chemical and Genomic Space to Prioritise Antibiotic Discovery from Actinobacteria

15:00 – 15:15  OC32. Jackson K.B. Cahn :: Eidgenössische Technische Hochschule (ETH)
The Evolutionary Profile of a Superproducer Sponge Symbiont, *Candidatus* “Enteonella”

15:15 – 15:30  OC33. Elena Bovio :: DBIOS University of Turin
Marine Fungi from Sponges: Biodiversity, Chemodiversity and Biotechnological Applications

15:30 – 15:45  OC34. Sophia Letsiou :: APIVITA , SA
Marine Derived Molecules and Their Potential Use in Cosmeceutical and Cosmetic Products

15:45 – 16:15  Coffee break
16:15 – 16:30  **OC35. Joel S. García-Romo :: University of Sonora**

*In Vitro* Bioactive Potential and Identification of Molecules Isolated from the Muscle of Farmed (*Litopenaeus vannamei*) and Wild (*Litopenaeus stylirostris*) Shrimp: Anti-proliferative / Pro-apoptosis Activity and Protection Against Oxidative Cellular Damage/Injury

16:30 – 16:45  **OC36. Olesya Malyarenko :: Russian Academy of Sciences**

Radiosensitization of Malignant Cancer Cells by Polysaccharides from Brown Seaweed *Fucus evanescens*

16:45 – 17:30  **PL12. Jaclyn M. Winter :: University of Utah College of Pharmacy**

Exploring the Chemical Potential of Great Salt Lake Microorganisms

17:30 – 19:00  **Poster session :: Scientific Themes 5 and 6**

19:00 – 21:00  **Sunset Party**