



SCIENTIFIC PROGRAM

Sunday, September 3, 2017

Arrival of participants

15:00-17:30 *Registration of participants*

17:30-18:20 **Opening Remarks**

18:20-19:00 **Opening Lecture**

Chairman: D. J. Newman (Newman Consulting llc, PA, USA)

18:20-19:00 **PL1: W. Fenical** (University of California at San Diego, CA, USA)
Marine microbes, new tools and targets for cancer drug discovery

19:00-20:30 *Welcome Reception*

20:30- *Dinner*

Monday, September 4, 2017

09:00-11:00 **Session I** – Isolation and structure elucidation of natural products from marine macro- and microorganisms

Chairman: R. J. Quinn (Griffith University, Australia)

09:00-09:30 **IL1: A. Hernández Daranas** (Universidad de La Laguna, Spain)

Three-dimensional structure of complex polyoxygenated bioactive compounds: NMR and computational chemistry tools applied to procoentroic acid

09:30-09:50 **OP1: M. Köck** (Alfred-Wegener-Institut, Germany)
COCON – Twenty years after (COCON in Mnova 12)

09:50-10:10 **OP2: A. Mangoni** (Università degli Studi di Napoli “Federico II”, Italy)

Quantum mechanical and other computational techniques as an aid for structure elucidation of natural products: benefits and caveats



- 10:10-10:30 **OP3: S. Urban** (RMIT University, Australia)
Application of the crystalline sponge method for natural product studies
- 10:30-10:50 **OP4: T. F. Molinski** (University of California, San Diego, CA, USA)
Absolute stereoassignment of marine natural products: Novel tools and structures
- 11:00-11:30 *Coffee/Tea Break*
- 11:30-13:00 **Session II** – Isolation and structure elucidation of natural products from marine macro- and microorganisms
Chairman: M. H. G. Munro (University of Canterbury, New Zealand)
- 11:30-11:50 **OP5: C. Schleissner** (PharmaMar S.A., Spain)
Bacterial production of a pederin analog by a free living marine alphaproteobacterium
- 11:50-12:10 **OP6: D. Silva** (São Paulo State University, Brazil)
Coniothyrium sp., an endophyte from the marine red alga *Pyropia spiralis*, as a source of sulphated diketopiperazines and novel macrolides
- 12:10-12:30 **OP7: S. Soldatou** (National University of Ireland Galway, Ireland)
An epigenetically modified endophytic fungus as source of new anti-MRSA natural products
- 12:30-12:50 **OP8: W. W. May Zin** (Universidade do Porto, Portugal)
Bioactive secondary metabolites from the culture of the mangrove-derived endophytic fungus *Eurotium chevalieri* KUFA 0006
- 13:00-14:00 *Lunch*
- 15:00-17:00 **Session III** – Marine -omics
Chairman: R. Edrada-Ebel (University of Strathclyde, UK)
- 15:00-15:30 **IL2: P. Y. Qian** (University of Science and Technology, Hong Kong SAR)
Genome-mining coupled with biosynthesis pathways manipulation as a power tool to reveal novel compounds and novel biosynthesis
- 15:30-15:50 **OP9: G. Genta-Jouve** (Université Paris Descartes, France)



	Deep metabolome annotation and the necessity of a thought experiment: <i>Parazoanthus axinellae</i> as a case study
15:50-16:10	OP10: N. P. Lopes (University of São Paulo, Brazil) Geographic and taxonomic influences on soft coral metabolomic fingerprints
16:10-16:30	OP11: M. Reverter (National University of Ireland Galway, Ireland) Inter- and intra-specific variations of two <i>Haliclona</i> sp. metabolomes and the potential use of metabolomics in sponge chemosystematics
16:30-16:50	OP12: K. R. Duncan (University of Strathclyde, UK) Comparative metabolomics of Antarctic and sub-Arctic actinobacteria
17:00-17:30	<i>Coffee/Tea Break</i>
17:30-19:00	Session IV – Evaluation of biological and pharmacological activities of marine natural products Chairman: A. Fontana (CNR- Istituto di Chimica Biomolecolare, Italy)
17:30-17:50	OP13: S. A. Dyshlovoy (University Medical Center Hamburg-Eppendorf, Germany) Anticancer and autophagy modulatory properties of monanchocidin A, rhizochalinin and frondoside A
17:50-18:10	OP14: P. C. Jimenez (Universidade Federal de São Paulo, Brazil) Further insights on the mode of action of seriniquinone
18:10-18:30	OP15: J. Svenson (RISE Research Institutes of Sweden, Sweden) AChE inhibitors isolated from Arctic benthic marine invertebrates
18:30-18:50	OP16: B. Konuklugil (Ankara University, Turkey) Bioactive compounds from some marine macroorganisms and marine-derived fungi from the coastlines of Turkey
19:00-20:30	Poster Presentations Session A (PP1-PP37)
20:30-	<i>Dinner</i>



Tuesday, September 5, 2017

09:00-11:00	Session V – Marine chemical ecology Chairman: W. Fenical (University of California San Diego, CA, USA)
09:00-09:40	PL2: G. Pohnert (Friedrich Schiller University, Germany) Exploration of chemical signals from microalgae that structure the marine environment
09:40-10:10	IL3: H. Pavia (University of Gothenburg, Sweden) The chemical ecology of seaweed invasion
10:10-10:30	OP17: B. J. Baker (University of South Florida, FL, USA) Chemistry and bioactivity of Antarctic marine organisms
10:30-10:50	OP18: C. Avila (University of Barcelona, Spain) Surviving in the cold: Antarctic marine natural products and biodiversity
11:00-11:30	<i>Coffee/Tea Break</i>
11:30-13:15	Session VI – Marine chemical ecology / Biosynthesis of marine natural products Chairman: M. Garson (The University of Queensland, Australia)
11:30-12:00	IL4: E. Mollo (National Research Council of Italy, Pozzuoli, Italy) Steps toward redefining taste and smell
12:00-12:20	OP19: P. J. Schupp (Institute for Chemistry and Biology of the Marine Environment, Germany) Bioactive sponges outcompete scleractinian corals
12:20-12:50	IL5: J. S. Dickschat (University of Bonn, Germany) Biosynthesis of the antibiotic tropodithietic acid in the marine bacterium <i>Phaeobacter inhibens</i>
12:50-13:10	OP20: A. Fontana (CNR- Istituto di Chimica Biomolecolare, Italy) Intracellular signals of death in marine diatoms
13:15-14:15	<i>Lunch</i>
14:30-20:30	<i>Excursion</i>
20:30-	<i>Dinner</i>



Wednesday, September 6, 2017

09:00-11:00	Session VII – Isolation and structure elucidation of natural products from marine macro- and microorganisms Chairman: T. F. Molinski (University of California San Diego, CA, USA)
09:00-09:30	IL6: O. P. Thomas (National University of Ireland Galway, Ireland) Zoanthids for sale... beyond their use in reef aquaria
09:30-09:50	OP21: C. Hertzter (Rheinische Friedrich-Wilhelms-University, Germany) From biodiversity to drug lead discovery – Secondary metabolites of Indonesian nudibranchs (Gastropoda, Mollusca)
09:50-10:10	OP22: E. Tello (Universidad de La Sabana, Colombia) Cytotoxic natural compounds isolated from <i>Pseudoplexaura flagellosa</i> and their semi-synthetic derivatives
10:10-10:30	OP23: M. Beniddir (Université Paris-Saclay, France) Unveiling unexpected chemistries through the annotation of molecular networks using well-tailored phishing probes: Discovery of an unprecedented marine natural blue chromophore
10:30-10:50	OP24: M. Carbone (Consiglio Nazionale delle Ricerche, Pozzuoli, Italy) Marine guanidine terpenoids: structure, synthesis and biological evaluation of actinofide
11:00-11:30	<i>Coffee/Tea Break</i>
11:30-13:00	Session VIII – Synthesis of marine natural products Chairman: A. Al-Mourabit (CNRS – ICSN, France)
11:30-12:00	IL7: G. Vassilikogiannakis (University of Crete, Greece) Advancing the sustainable chemistry of singlet oxygen and applying it to natural product synthesis
12:00-12:20	OP25: B. R. Copp (University of Auckland, New Zealand) Total synthesis of tunicchromes Sp-1 and halocytamine A and discovery of antibiotic potentiating non-natural analogues
12:20-12:40	OP26: S. Berardozi (Sapienza University, Italy) Total synthesis and biological investigation of (+)-



dactylolide and 19-*epi*-(+)-dactylolide

13:00-14:00

Lunch

15:00-17:00

Session IX – Evaluation of biological and pharmacological activities of marine natural products
Chairman: B. J. Baker (University of South Florida, FL, USA)

15:00-15:30

IL8: L. V. Costa-Lotufo (Universidade de São Paulo, Brazil)
Fishing marine natural products with relevant cancer targets

15:30-15:50

OP27: E. Vasileva (G.B. Elyakov Pacific Institute of Bioorganic Chemistry, Russia)
In vitro and *in vivo* antioxidant activity of quinonoid pigments from sea urchins

15:50-16:10

OP28: S. F. Koduvayur Habeebullah (Kuwait Institute for Scientific Research, Kuwait)
Comparison of antioxidant activities of fucoidan and fucoxanthin isolated from brown algae of Arabian Gulf

16:10-16:30

OP29: J. Alarcán (French Agency for Food, Environmental and Occupational Health & Safety, France)
In vitro assessment of binary mixture effects of phycotoxins in human intestinal Caco-2 cells

16:30-16:50

OP30: A. H. Januario (Universidade de Franca, Brazil)
Schistosomicidal compounds from Brazilian ascidians of the genus *Didemnum*

17:00-17:30

Coffee/Tea Break

17:30-19:00

Session X – Marine biopolymers & biotoxins
Chairman: M. Köck (Alfred-Wegener-Institut, Germany)

17:30-17:50

OP31: H. S. Andersson (Linnaeus University, Sweden)
 α -Nemertides, a novel family of marine peptide neurotoxins from ribbon worms

17:50-18:10

OP32: M. Long (University of Wollongong, Australia)
Chemical interactions between the toxic dinoflagellate *Alexandrium minutum* and phytoplankton: specificity and mode of action

18:10-18:30

OP33: M. M. A. Khan (The Aligarh Muslim University, India)



18:30-18:50	Foliar application of radiation-processed marine polysaccharides enhances the production of essential oil and its active constituents in some aromatic plants OP34: D. C. Restrepo-Espinosa (Universidad de Antioquia, Colombia) Biochemical approach of a sulfated polysaccharide obtained from the ascidian <i>Microcosmus exasperatus</i>
19:00-20:30	Poster Presentations Session B (PP38-PP73)
20:30-	<i>Conference Dinner</i>

Thursday, September 7, 2017

09:00-11:00	Session XI – Dereplication and rational approaches for bioprospecting Chairman: Y. Kashman (Tel Aviv University, Israel)
09:00-09:40	PL3: M. Pérez (PharmaMar S.A., Spain) Families of compounds vs geographic areas and taxonomy; PharmaMar libraries
09:40-10:00	OP35: R. J. Quinn (Griffith University, Australia) Bioinspiration from marine scaffolds
10:00-10:20	OP36: B. Sanches (University of Strathclyde, UK) Metabolomic-guided isolation of bioactive alpha- and beta-hydroxy fatty acids from geothermal intertidal bacteria
10:20-10:40	OP37: S. P. Gaudêncio (Universidade NOVA de Lisboa, Portugal) Hybrid-isoprenoids from MAR4 strains isolated from Madeira Archipelago as a source of antimicrobial compounds with biotechnological potential
10:40-11:00	OP38: M. Liu (Griffith University, Australia) OSMAC-NMR-PCA: Target isolation of anti-TB natural products from unique environments-derived actinomycetes
11:00-11:30	<i>Coffee/Tea Break</i>
11:30-13:00	Session XII – Trends and future prospects of marine natural products Chairman: A. Kijjoa (Universidade do Porto, Portugal)



- 11:30-11:50 **OP39: P. F. Long** (King's College London, UK)
Palythine offers effective photoprotection to human skin cells
- 11:50-12:20 **IL9: A. M. Mayer** (Midwestern University, IL, USA)
The marine pharmacology and pharmaceuticals pipeline in 2017
- 12:20-12:50 **IL10: D. J. Newman** (Newman Consulting llc, PA, USA)
Clinical trials of marine -sourced materials; Problems and potential ways to overcome them
- 13:00-13:15 **Closing Remarks**
- 13:15-14:15 *Lunch*
- Departure of participants*