



**2nd International Conference of
Marine Fungal Natural Products
(MaFNaP_2017)**
27-29 June 2017
Wissenschaftszentrum Kiel, Germany



SCIENTIFIC PROGRAM

Monday, 26th June

19.00-21.00 Welcome reception and Registration, Wissenschaftszentrum Kiel

Tuesday, 27th June

8.00-9.00 Registration

9.00-9.35 Welcome addresses

Prof. Dr. Martin Visbeck, Speaker of Excellence Cluster Future Ocean
(GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany)

Wolfgang-Dieter Glanz, Representative of the Ministry of Economic
Affairs, Employment, Transport and Technology

Prof. Dr. Deniz Tasdemir, Host (RU Marine Natural Products
Chemistry/GEOMAR-Biotech, GEOMAR Helmholtz Centre for Ocean
Research Kiel, Germany)

Session 1 Biodiversity and Cultivability of Marine Fungi

Chair: Prof. Dr. Deniz Tasdemir

9.35-10.20 **Plenary Lecture (PL1) Prof. Dr. Russell Kerr** - Investigations into the
control of fungal natural products

10.20-10.35 **Short Lecture (SL1) Benjamin Libor** - Isolation studies on marine
derived fungi using the diffusion chamber device

10.35-11.10 Coffee break

11.10-11.25 **Short Lecture (SL2) Prof. Dr. Lan Liu** - Inducing secondary metabolite
production by mangrove endophytic fungi through fungal-bacterial co-
culture

11.25-11.40 **Short Lecture (SL3) Elena Bovio** - Biodiversity and chemodiversity of
the fungal community associated with the Atlantic sponge *Grantia
compressa*





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11.40-11.55 **Short Lecture (SL4) Prof. Dr. Chang-Yun Wang** - Marine bioactive natural products from coral-derived fungi collected from the South China Sea

11.55-12.10 Flash Presentations (3 x 5 min)

FP1 Bicheng Fan - Applying OSMAC approach to marine fungi for discovery of new anticancer lead compounds

FP2 Arnaud Cousseau - Marine *Fusarium equiseti* as a potential source of antitumoral natural compounds

FP3 Pinelopi Vlachou - Exploitation of marine microorganisms for the isolation of novel natural products with anti-aging bioactivity

12.10-13.30 Lunch break

Session 2 Chemodiversity of Marine Fungi

Chair: Prof. Dr. Russell Kerr

13.30-14.15 **Plenary Lecture (PL2) Prof. Dr. Anake Kijjoa** - Secondary metabolites from some marine-derived *Neosartorya*, *Aspergillus*, *Talaromyces* and *Eurotium*, collected from Thai waters

14.15-14.30 **Short Lecture (SL5) Ernest Oppong-Danquah** - Increasing the chemical space of marine fungi by co-cultivation for discovery of anti-phytopathogenic agents

14.30-14.45 **Short Lecture (SL6) Prof. Dr. Robert Capon** - Deciphering co-cultivation chemical communication as a strategy for accessing valuable new chemistry

14.45-15.00 **Short Lecture (SL7) Fortunato Palma-Esposito** - Exploitation of new bioactive compounds produced by *Beauveria bassiana* to fight MDR bacteria

15.00-15.30 Coffee break

Session 3 Physiology of Marine Fungi

Chair: Prof. Dr. Frank Kempken

15.30-16.15 **Plenary Lecture (PL3) Prof. Dr. Nina Gunde-Cimerman** - Fungi in the saltens – from halotolerance to halophily





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16.15-16.30 Flash Presentations (3 x 5 min)

FP4 Jidapa Noinart - Anti-obesity activity of anthraquinones and other constituents of the marine-derived fungus *Talaromyces stipitatus* KUFA 0207

FP5 Fayrouz El-Maddah - Biosynthetic studies of novel polyketides from the marine sponge-derived fungus *Stachylidium* sp. 293K04

FP6 Estelle Sfecci - Biodiversity and chemodiversity of the cultivable fungal community associated to the Mediterranean marine sponge *Phorbas tenacior* (Porifera, Demospongiae)

16.30-18.30 Poster Session

Wednesday, 28th June

Session 4 Fungal analytics and metabolomics

Chair: Prof. Dr. Rob Capon

9.00-9.45 **Plenary Lecture (PL4) Prof. Dr. Catherine Roullier** - Halogenation in marine-derived fungi: Development of a metabolomic tool to investigate chlorinated and/or brominated compounds

9.45-10.00 **Short Lecture (SL8) Dr. Delphine Parrot** - Molecular networking combined with in-silico MS/MS database: A workflow for in-depth investigation of the marine fungal metabolome

10.00-10.15 **Short Lecture (SL9) Prof. Dr. Olivier Grovel** - Metabolomics reveal the dynamics of fungal metabolomes and biosynthetic pathways in marine-sourced *Penicillium* sp.

10.15-10.45 **Short Lecture (SL10) Thomas Knoefel** - Application of DESI-MS Imaging in the study of plants and microorganisms

10.45-11.15 Coffee break

Session 5 Marine Fungal Genetics and Genomics

Chair: Dr. Marlis Reich

11.15-12.00 **Plenary Lecture (PL5) Prof. Dr. Frank Kempken** - Genome and transcriptome analysis of marine fungi from Baltic, Mediterranean and North Sea





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12.00-12.15 **Short Lecture (SL11) Prof. Dr. Zhu-Hua Luo** - Fungal diversity in deep seafloor of the Pacific Ocean

12.15-12.30 **Short Lecture (SL12) Dr. Teppo Rämä** - Diversity and bioactivity of Arctic marine fungi

12.30-13.45 Lunch break

Session 6 Fungal Interactions, Epigenetics and Ecology I
Chair: Prof. Dr. Anake Kijjoa

13.45-14.30 **Plenary Lecture (PL6) Dr. Marlis Reich** - What marine fungal ecologists can tell...

14.30-14.45 **Short Lecture (SL13) Anne Tourneroc** - Molecular interactions between endophytic fungi and bacteria from brown-algae in the context of quorum sensing

14.45-15.00 **Short Lecture (SL14) Dr. Giorgio Gnani** - Modulation of fungal mechanism by mycoviruses: The case study of virus infected marine *Penicillium janczewskii* and a derived semi-cured isolate

15.00-15.15 **Short Lecture (SL15) Prof. Dr. Samuel Bertrand** - Fungal and microalgal interaction in a marine environment

15.15-15.45 Coffee break

Session 7 Fungal Interactions, Epigenetics and Ecology II
Chair: Prof. Dr. Nina Gunde-Cimerman

15.45-16.30 **Plenary Lecture (PL7) Prof. Dr. Eva Stukenbrock** - The role of histone-methyltransferases KMT1 and KMT6 in gene regulation and chromosome stability in the wheat pathogen *Zymoseptoria tritici*

16.30-18.00 Round table / Consortium discussion (moderated by Russell Kerr and Deniz Tasdemir)

19.30-22.00 Conference dinner at Kieler Schloss,
Address: Dänische Straße 44, 24103 Kiel





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Thursday, 29th June

Session 8 Marine Fungal Biotechnology and Biodiscovery

Chair: Prof. Dr. Antje Labes

- 8.45-9.30 **Plenary Lecture (PL8) Prof. Dr. Vera Meyer** - Exploiting the full potential of systems biology and synthetic biology to understand and rewire the cell factory *Aspergillus niger*
- 9.30-9.45 **Short Lecture (SL16) Prof. Dr. Giovanna Cristina Varese** - Self-assembling proteins from marine fungi
- 9.45-10.30 **Plenary Lecture (PL9) Prof. Dr. Johannes F. Imhoff** - Marine fungi, a prolific source of new compounds and the object of an EU funded international consortium
- 10.30-11.00 Coffee break
- 11.00-11.15 **Short Lecture (SL17) Dr. Adelia Razeto** - The first small-molecule anti-cancer agent modulating the function of VDAC1: Steps towards the understanding the mode of action of a marine fungi product
- 11.15-11.30 Awards ceremony
- 11.30-12.00 Closing remarks, Future perspectives
- 12.00-18.00 Lunch-to-go and Social program

