

FucoSan – from Science to Innovation Day 2019

Programme | 26 November 2019 | 9.00 – 18.15

GEOMAR Helmholtz Centre for Ocean Research Kiel

Foyer/Lecture Hall, east shore campus, Building 8

Wischhofstraße 1-3, 24148 Kiel, Germany

- 8.00 - 9.00 Arrival of participants, registration
- 9.00 - 9.30 Welcome addresses
Deniz Tasdemir, GEOMAR-Biotech/RU Marine Natural Products Chemistry, GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany; Host and FucoSan project partner

Alexa Klettner, University Medical Centre Schleswig-Holstein, Clinics for Ophthalmology, Kiel, Germany; FucoSan lead partner

Imke Schneemann, Life Science Nord Management GmbH, Kiel/Hamburg, Germany; FucoSan network partner
- 9.30 - 10.15 Opening lecture:
Frédéric Chaubet, University of Paris XIII, Institut Galilee, Laboratory for Vascular Translational Science, Paris, France.
 Fucoidan: How a marine polysaccharide helps fighting cardiovascular diseases.

Morning session: **From Science ...**

This session will inform about the challenges and success stories in obtaining suitable raw material in sustainable ways, but also present results from different extraction techniques for providing extracts and their characterisation, chemically and biologically.

- 10.15 - 10.35 **Rafael Meichßner**, Coastal Research and Management (CRM) oHG, Kiel, Germany/ Kiel University, Botanical Institute and Botanical Garden, Department Physiology and Biotechnology of the Plant Cell, Kiel, Germany. Aquaculture of fucus species in the Baltic Sea – a potential source for high quality biomass?

- 10.35 - 10.55 **Xavier Fretté**, University of Southern Denmark, Department of Chemical Engineering, Biotechnology and Environmental Technology, Odense, Denmark.
Extraction processes and chemical characterisation of fucoidans.
- 10.55 - 11.30 Coffee break
- 11.30 - 11.50 **Susanne Alban**, Kiel University, Department Pharmaceutical Biology, Kiel, Germany.
From brown algae to fucoidans - selection of candidates for further research and development.
- 11.50 - 12.10 **Anne Meyer & Maria Dalgaard Mikkelsen**, Technical University of Denmark, Department of Chemical and Biochemical Engineering, Lyngby, Denmark.
Discovery of new fucoidan modifying enzymes.
- 12.10 - 12.30 **Martina Blümel**, GEOMAR Helmholtz Centre for Ocean Research Kiel, RU Marine Natural Products Chemistry / GEOMAR-Biotech, Kiel, Germany.
Biological activity of different fucoidans.
- 12.30 - 14.00 Lunch break, group photo, guided poster tour / 1min flash poster presentations

Afternoon session: ... to Innovation

This session will focus on results from biological assays with a direct link to two target application areas; ophthalmology and regenerative medicine. In parallel, the commercialisation potential is exploited in cosmetics application. Moreover, research regarding commercialisation options incl. challenges and opportunities concerning the IPR will be presented.

- 14.00 - 14.20 **Alexa Klettner**, University Medical Centre Schleswig-Holstein (UKSH), Department of Ophthalmology, Kiel, Germany.
Fucoidan as a potential novel treatment option for age-related macular degeneration.
- 14.20 - 14.40 **Sabine Fuchs**, University Medical Centre Schleswig-Holstein (UKSH), Department of experimental Orthopaedics and Trauma Surgery, Kiel, Germany.
Fucoidans for bone health and regeneration (Pilot B).
- 14.40 - 15.00 **Ming Ding**, Odense University Hospital, Orthopaedic Research Unit, Odense, Denmark.
Potential of bioactive compound fucoidan from marine algae for bone regeneration and anti-infection.

15.00 - 16.00 Coffee break and poster discussion

16.00 - 16.20 **N.N.**, OceanBASIS GmbH, Kiel, Germany.
(Potential) Applications of fucoidan-containing skin care products.

16.20 - 16.40 **Ferran Giones**, University of Southern Denmark, Mads Clausen Institute (SDU-MCI), Technology Entrepreneurship and Innovation, Sønderborg, Denmark.
Business models integration to activate the Fucoidan value chain.

16.40 - 17.00 **Carsten Schultz**, Kiel University, Department Technology Management, Kiel, Germany. Open innovation networks for fucoidans – collaboration barriers and future development.

17.00 - 17.15 Closing and farewell

17.15 - 18.15 Visit to GEOMAR Technology and Logistics Centre, east shore Campus, Wischhofstraße 1-3, 24148 Kiel