Evolving health: Novel Perspectives in Genetics & Bioinformatics

TUESDAY 07.06. / WEDNESDAY 08.06.2016

center for molecular biosciences (zmb)
university kiel

Estonian Genome Center / Kiel Life Science
Organizers
Tõnu Esko, Elin Org, Tanel Tenson
Maido Remm, Ursel Soomets, Martin Zobel

KIEL UNIVERSITY
Andre Franke, Philip Rosenstiel, David Ellinghaus
Britt Petersen, Femke Heinsen, Georg Hemmrich-Stanisak, Eva Stukenbrock, Robert Häsler

Symposium Dinner: Restaurant »Der Alter Mann«

ORGANIZER
Prof. Dr. Dr. h.c. Thomas C. G. Bosch

REGISTRATION DEADLINE
until 30th April 2016
Participants of the conference, who are no member of the CRC 1182, Kiel Life Science or the Cluster of Excellence Inflammation at Interfaces, have to pay a conference fee of 150 EUR.
Places are limited, so registration is required for all participants and is binding.
oﬃce@metaorganism-research.com

CONTACT
Collaborative Research Centre 1182
-Origin and Function of Metaorganisms-
Am Botanischen Garten 1–9
24118 Kiel
phone +49 431 880 4169
fax +49 431 880 4747
www.metaorganism-research.com
oﬃce@metaorganism-research.com

COORDINATOR
Prof. Dr. Dr. h.c. Thomas C. G. Bosch
tbosch@zoologie.uni-kiel.de

VICE-COORDINATOR
Prof. Dr. Hinrich Schulenburg
hschulenburg@zoologie.uni-kiel.de

POSTPONED TO FALL 2016
WEDNESDAY 08.06.2016
WISSENSCHAFTSZENTRUM KIEL

10:00 – 14:00 Registration
14:00 Welcome addresses
  Thomas Bosch and Stefan Schreiber

› Special Opening Lecture: Pioneers in Holobiont Research
  14:30 Eugene Rosenberg TEL AVIV UNIVERSITY
  Ilana Zilber-Rosenberg TEL AVIV UNIVERSITY
  Cooperation also drives evolution: Hologenome concept
  15:30 Coffee

› On Diseases
  (sponsored by Cluster of Excellence: Inflammation at Interfaces)
  15:45 Paul Wilmes UNIVERSITY OF LUXEMBOURG, ESCH-SUR-ALZETTE
  Systems ecology of human-microbe interactions
  16:30 Joao Xavier MEMORIAL SLOAN-KETTERING CANCER CENTER, NEW YORK
  Unveiling how gut microbiota protect their hosts from enteric pathogens
  17:15 Andreas Peschel UNIVERSITY OF TÜBINGEN
  Ecology of an endogenous pathogen – the nasal Staphylococcus aureus inhabitant
  18:00 Transfer to the paddle steamer ›Freya‹
18:30 – 22:30 Conference Get-together on board of paddle steamer ›Freya‹

THURSDAY 09.06.2016
WISSENSCHAFTSZENTRUM KIEL

› Human Metagenomics
  09:00 Stanislaw Dusko Ehrlich INRA, INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, PARIS
  Human gut microbiome in health and disease
  09:45 Philip Rosenstiel KIEL UNIVERSITY
  Crosstalk of microbes and intestinal epithelial cells
  10:05 John Baines KIEL UNIVERSITY & MAX PLANCK INSTITUTE FOR EVOLUTIONARY BIOLOGY, PLÖN
  Genetic analysis of the skin microbiota and its role in susceptibility to autoimmune skin blistering
  10:25 Andre Franke KIEL UNIVERSITY
  The influence of host genetics in shaping the human gut microbiome
  10:45 Coffee

› New Developments in Host-Microbe Research
  10:30 Wolfgang Kunze McMaster University, Hamilton
  Microbiota-gut-brain signalling and the oldest nervous system
  11:15 Thomas Bosch KIEL UNIVERSITY
  Tracing the evolutionary origin of microbe-neuron interactions
  11:25 Arne Traulsen MAX PLANCK INSTITUTE FOR EVOLUTIONARY BIOLOGY, PLÖN
  Dissecting a meta-organism with mathematical models
  11:45 Tim Lachnit KIEL UNIVERSITY
  Viruses and their role in holobiont homeostasis
  12:05 Lunch

› Plant – Microbe Interactions
  14:00 Julia Vorholt ETH ZURICH | SPONSORED BY KIEL LIFE SCIENCE
  The leaf microbiota: Systems biology insights and perspectives
  14:45 Eric Kemen MAX PLANCK INSTITUTE FOR PLANT BREEDING RESEARCH, COLOGNE
  Who’s who in leaf microbiome dynamics
  15:30 Eva Stukenbrock KIEL UNIVERSITY
  Domestication-driven evolution and speciation of a fungal plant pathogen
  15:50 Coffee

› Mechanisms and Model Systems
  16:30 Karen Guillemin UNIVERSITY OF OREGON, EUGENE
  Modeling our microbial selves: Insights from the zebrafish intestine
  17:15 Hinrich Schulenburg KIEL UNIVERSITY
  C. elegans as a novel experimental model for microbiome research
  17:35 Sebastian Fraune KIEL UNIVERSITY
  The interdependency of animal development, environmental acclimation and bacterial colonization in the cnidarian model organism Nematostella vectensis
  17:55 Nicole Dubillier MAX PLANCK INSTITUTE FOR MARINE MICROBIOLOGY, BREMEN
  Why diversity matters: Multiple symbiont strains colonize deep-sea Bathymodiolus mussels
  18:15 Thomas Roeder KIEL UNIVERSITY
  How the fly maintains a homeostatic balance in the epithelial-microbiota crosstalk
  18:35 Ruth Schmitz-Streit KIEL UNIVERSITY
  Aurelia and Mnemiopsis share food, water but not microbiota
  19:00 Transfer of speakers to Hotel Atlantik
  19:30 Speakers Dinner: Hotel Atlantik ›Weintresor‹

FRIDAY 10.06.2016
WISSENSCHAFTSZENTRUM KIEL

› Endosymbiosis and Genome Evolution
  09:00 John Archibald DALHOUISIE UNIVERSITY, HALIFAX
  Endosymbiosis and genome mosaicism in microbial eukaryotes
  09:45 Angela E. Douglas CORNELL UNIVERSITY
  Metabolic coevolution and host control of symbiont function
  10:30 Coffee

  11:00 Tal Dagan KIEL UNIVERSITY
  The contribution of phage-mediated gene transfer to microbial genome evolution
  11:20 Ute Hentschel Humilda GEOMAR, HELMHOLTZ CENTER FOR OCEAN RESEARCH KIEL
  Lifestyle evolution in marine sponge symbionts
  11:40 Lunch

› Breakthroughs and Opening Perspectives in Host-Microbe Interaction Research
  12:30 Margaret McFall-Ngai UNIVERSITY OF HAWAII, HONOLULU
  Exploring the micro environments that determine symbiont specificity in the squid-vibrio association
  13:15 Tobias Rees MCGILL UNIVERSITY MONTREAL
  An anthropologist’s opening up new spaces of thought
  13:45 Rainer Ernst MUTHESIUS UNIVERSITY, KIEL
  Visible perception of the metaorganism: an artist’s view
  14:15 Coffee

  14:30 Roundtable Discussion:
  Twenty Years of Progress: Perspectives for the Collaborative Research Center 1182
  (Chair: Margaret McFall-Ngai and John Archibald)
  15:30 Departure and Party at Restaurant ›Seebar‹ on the Baltic Sea