Dear Summer School Participants,
we cordially welcome you to our interdisciplinary summer school!

Main objective of this year’s Summer School is to introduce Cluster-relevant topics with a particular focus on systems biological approaches. Besides the lectures, which will explicitly be addressed to an interdisciplinary audience in different stadiums of academic education, there will be Short Oral Presentations. Theses should give you the opportunity to present your own scientific researches.

Topics of interest are:
- Medical Systems Biology
- Microbiome Research
- Evolutionary Medicine

Besides the academic educational approach we hope to give you the possibility to network with other young scientists and provide an enhanced, interdisciplinary perspective on what the cluster for inflammation research has to offer!

Sincerely,
the organizing team

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October 14th - 16th 2015
Weissenhäuser Strand
PROGRAM
Wednesday, October 14th 2015
(Conference room „Schleswig“)

until Arrival and Registration / Coffee
10:00
10:00 – Welcome Christoph Kaleta and John Baines
10:20

Session 1: Medical Systems Biology - Part I
10:20 – Christoph Kaleta: “Using Systems Biology to make sense of large-scale data sets” - Introduction
11:20 – Simonas Juzenas: “MiRNA Expression Patterns in Colon of Active and Inactive Ulcerative Colitis”
11:40 – Daniela Esser: “Exomic and transcriptomic characterization of colitis-associated colorectal cancer in mice”
12:00 – Lunch (Restaurant Sonnenrose)
12:00 – 13:30 Lunch (Restaurant Sonnenrose)
14:20 – 14:40 Peer Aramillo Irizar: “Cross-species and cross-tissue characterization of ageing patterns in vertebrates”
14:40 – 15:00 Abdou Elsharawy: “Profiling of Extracellular Vesicles as a Promising Multi-omics Strategy for Biomarker Discovery in Liquid Biopsies of Bowel Disease Patients”
15:00 – 15:30 Coffee
15:30 – 16:00 Training
16:00 – 19:00 Dinner (Möwenbräu Event)
19:00 – 21:00 Get together (Möwenbräu Event)
from 21:00

Thursday, October 15th 2015
(Conference room „Schleswig“)

Session 3: Microbiome Research - Part I
09:00 – John Baines: “Introduction to Microbiome Research”
09:50 – Philip Rosenstiel: “Microbiome and inflammatory diseases”
10:40 – Malte Rühlemann: “Brown Adipose Tissue Activation Regulates Bile Acid Metabolism and Shapes the Gut Microbiome”
11:00 – Mohsen M. Hegab: “A Drosophila model of experimentally induced inflammatory bowel disease”
11:20 – Coffee
11:40 – 12:30 Jan Baumbach: “Combined analysis of multiple OMICS data types with biological networks”
12:30 – Jörn Bethune: “Common Infrastructure of Inflammatory Diseases”
12:50 – Lunch (Restaurant Sonnenrose)
14:00 – 14:30 Eugen Bauer: “Comprehensive Metabolic Reconstruction and Modeling of the Human Gut Microbiota”
14:30 – Meriem Belheouane: “Fine scale QTL mapping of the skin microbiota in house mice”
14:50 – Philipp Rausch: “Dependence of microbial community development on the host and maternal α-1,2-fucosyltransferase gene”
15:10 – Marie Vallier: “Geographically limited selection at the blood group-related gene B4galnt2 in house mice is associated with gastrointestinal pathogens”
15:30 – Coffee
16:00 – 18:00 Overview and discussion
18:00 – Alexandra Heßling / Lorenz Kienle / Linda Piálek: “Research funding - Germany and EU”
19:00 – Dinner (Möwenbräu Event)
21:00 – Get together (Möwenbräu Event)
from 21:00

Friday, October 16th 2015
(Conference room „Schleswig“)

Session 6: Evolutionary Medicine - Part I
09:00 – John Baines: “Introduction to Evolutionary Medicine”
09:40 – Abigail Bouwman: “Using Evolutionary Medicine to study Micro-evolution in humans”
10:30 – Coffee
11:00 – 15:00 Overview and discussion
15:00 – Depature