

CRC1182 / KAUST Workshop

“Metaorganisms in Extreme Environments”

Kiel University, March 28th/30th 2017

Tuesday, March 28th 2017

Zoological Museum, Hegewischstraße 3, Kiel

- 14:00 – 17:00 Arrival, check-in Hotel Steigenberger
- 18:00 **Reception at the Zoological Museum of Kiel University**
- 18:00 – 18:10 THOMAS BOSCH, CHRISTIAN VOOLSTRA, NICOLE DUBILIER
Welcome to the CRC1182 / KAUST Workshop “Metaorganisms in
Extreme Environments”
- 18:10 – 18:30 THOMAS BOSCH, CAU Kiel
The holobiont imperative
- 18:30 – 19:00 RUTH SCHMITZ-STREIT, CAU Kiel
**Methanoarchaea as part of the human microbiome: Friends or
Foes?**
- 19:00 – 19:30 HERIBERT HIRT, KAUST
**How plants can survive under extreme environmental conditions –
lessons and next generation agriculture with desert microbes**
- 19:30 – 23:00 *Get-together*

Wednesday, March 29th 2017

Center for Molecular Biosciences (ZMB), Am Botanischen Garten 11, Kiel

- 09:00 – 09:30 TAL DAGAN, CAU Kiel
**Mechanisms of foraminiferal denitrification in oxygen minimum
zones: a eukaryotic and prokaryotic mosaic**
- 09:30 – 10:00 CHRISTIAN VOOLSTRA, KAUST
**Osmolyte "moonlighting" renders symbiotic reef corals more
tolerant to heat and salt stress**
- 10:00 – 10:20 NILS HÜLTER, CAU Kiel
**The role of clustered genomic polymorphisms in DNA in genome
evolution**
- 10:20 – 11:30 *Coffee & Tour of ZMB (Sequencing facility, Bioinformatics, PopGen
Biobank)*

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| 11:30 – 12:00 | UTE HENTSCHEL HUMEIDA, GEOMAR Kiel Exploring microbial dark matter in sponge symbioses |
| 12:00 – 12:20 | MAREN ZIEGLER, KAUST Bacterial community dynamics are linked to patterns of coral heat tolerance |
| 12:20 – 12:40 | NANCY WEILAND-BRÄUER, CAU Kiel Insights into host-microbe interactions of the moon jelly <i>Aurelia aurita</i> |
| 12:40 – 13:00 | NILS RAEDECKER, KAUST Coral bleaching in the light of disrupted nutrient cycling |
| 13:00 – 14:00 | <i>Lunch</i> |
| 14:00 – 14:30 | SEBASTIAN FRAUNE, CAU Kiel <i>Hydra</i> modifies bacterial quorum sensing and thereby maintains symbiotic functions of its colonizers |
| 14:30 – 14:50 | CLAUDIA POGOREUTZ, KAUST Highly selected coral holobionts: implications for acclimatization and adaptation |
| 14:50 – 15:20 | HINRICH SCHULENBURG, CAU Kiel <i>C. elegans</i> as a novel model for studying microbiome evolution |
| 15:20 – 15:40 | TIM LACHNIT, CAU Kiel Bacteriophages and their role in holobiont maintenance |
| 15:40 – 16:15 | <i>Coffee</i> |
| 16:15 – 17:00 | WOLFGANG DUSCHL, CAU Kiel Off the beaten track lecture: Life in extreme environments from near to far: insights from astrophysics |
| 18:30 – 23:00 | <i>DINNER AT THE RESTAURANT “DER ALTE MANN”</i> |

Thursday, March 30th 2017

Center for Molecular Biosciences (ZMB), Am Botanischen Garten 11, Kiel

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| 09:30 – 10:30 | Summary and roundtable discussion focused on future joint activities |
| 10:30 – 11:00 | <i>Coffee</i> |
| 11:00 – 11:30 | Planning draft issue in “<i>Zoology</i>” covering the workshop contributions |
| 11:30 – 13:00 | <i>Lunch</i> |
| 13:00 | Departure |