

## 7<sup>th</sup> Retreat of the Collaborative Research Center 1182 “Origin and Function of Metaorganisms”

Maritim Seehotel Timmendorfer Strand, November 4<sup>th</sup>-5<sup>th</sup>, 2021

### Thursday, November 4<sup>th</sup> 2021

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| <b>08:00 - 09:30</b> | <i>Transportation from Kiel to Timmendorfer Strand</i>  |
| 09:00 - 11:30        | <i>Registration &amp; Check-in<br/>(Rooms are ready for check-in from 3 pm. Suitcases can be stored.)</i> |
| 09:00 - 10:00        | <i>Coffee</i>   |
| <b>10:00 - 10:15</b> | <b>Welcome by Thomas Bosch</b>  |

#### **10:15 - 12:45 C - Function and Life History (Chair: T. Dagan)**

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|               | <b>C1 - Towards understanding an ultimately simple metaorganism: impact of symbiotic microbes on developmental processes of Hydra (T. Bosch)</b> |
| 10:15 - 10:35 | <b>C1:</b> Jinru He & Christoph Giez   |
|               | <b>C2 - Memory mechanisms of nutritional stress in the gut ecosystem (T. Roeder, P. Rosenstiel)</b>  |
| 10:35 - 10:55 | <b>C2.1:</b> Mirjam Knop   |
| 10:55 - 11:15 | <b>C2.2:</b> Philip Rosenstiel   |
| 11:15 - 11:30 | <i>Coffee</i>  |

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|               | <b>C4 - New approaches to understanding eco-evolutionary dynamics in metaorganisms (P. Rainey, T. Lachnit, U. Hentschel Humeida)</b> |
| 11:30 - 11:50 | <b>C4.1:</b> Pauline Buffard & Bram van Dijk   |
| 11:50 - 12:10 | <b>C4.2:</b> Laura Ulrich  |
| 12:10 - 12:30 | <b>C4.3:</b> Leon Steiner  |
| 12:30 - 12:45 | <b>Discussion C Projects</b>   |

**12:45 - 13:00**      **Group photo**

**13:00 - 14:00**      *Lunch*

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| <b>14:00 - 16:30</b> |  | <b>B - Recognition and Communication (Chair: K. Dierking)</b>   |
|                      |  | <b>B1 - Host-microbe cross talk in the early metazoan taxa Porifera and anthozoan Cnidaria (U. Hentschel Humeida, S. Fraune)</b>                            |
| 14:00 - 14:20        |  | <b>B1.1:</b> Lara Schmittmann & Angela Marulanda  |
| 14:20 - 14:40        |  | <b>B1.2:</b> Nida Kaya & Gabriela Fuentes Reyes   |
|                      |  | <b>B2 - Microbiota-host interactions at the base of the metazoan tree (R. Schmitz-Streit, T. Reusch)</b>  |
| 14:40 - 15:00        |  | <b>B2.1:</b> Nadin Jensen & Thorsten Zimmer   |
| 15:00 - 15:20        |  | <b>B2.2:</b> Nora Grossschmidt  |
| 15:20 - 15:35        |  | <i>Coffee</i>   |
|                      |  | <b>B4 - Microbial interactions within the metaorganism: mechanisms of bacterial niche specialization and warfare in symbiosis (T. Dagan, D. Unterweger)</b> |
| 15:35 - 15:55        |  | <b>B4.1:</b> Devani Romero Picazo   |
| 15:55 - 16:15        |  | <b>B4.2:</b> Hanna Fokt   |
| 16:15 - 16:30        |  | <b>Discussion B Projects</b>  |
| <b>16:30 - 16:45</b> |  | <i>Coffee</i>   |
| <b>16:45 - 18:25</b> |  | <b>A - Evolution and Ecology (Chair: U. Hentschel)</b>  |
|                      |  | <b>A4 - Mathematical modelling of interactions in evolving metaorganisms (A. Traulsen, H. Schulenburg)</b>  |
| 16:45 - 17:05        |  | <b>A4.1:</b> Florence Bansept   |
| 17:05 - 17:25        |  | <b>A4.3:</b> Anna Czerwinski  |
|                      |  | <b>A1 - Molecular basis and evolutionary dynamics of <i>C. elegans</i>-microbiome interactions (H. Schulenburg, K. Dierking, C. Kaleta)</b>                 |
| 17:25 - 17:45        |  | <b>A1.1:</b> Carola Petersen  |
| 17:45 - 18:05        |  | <b>A1.2:</b> Lena Peters  |
| 18:05 - 18:25        |  | <b>A1.5:</b> Georgios Marinos   |
| <b>18:25 - 19:30</b> |  | <i>Dinner</i>   |
| <b>19:30 - 21:05</b> |  | <b>A - Evolution and Ecology (Chair: U. Hentschel)</b>  |
|                      |  | <b>A2 - Host-microbiome coevolution in the mammalian intestine (J. Baines, A. Franke)</b>   |
| 19:30 - 19:50        |  | <b>A2.1:</b> Shauni Doms  |
| 19:50 - 20:10        |  | <b>A2.2:</b> Malte Rühlemann  |

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|               | <b>A3 - Colonization dynamics and resilience to fungi in the wheat microbiota (E. Stukenbrock, T. Dagan)</b> |
| 20:10 - 20:30 | <b>A3.1:</b> Carolina Sardinha Francisco   |
| 20:30 - 20:50 | <b>A3.2:</b> Shreya Vichare  |
| 20:50 - 21:05 | <b>Discussion</b> A Projects   |
| <b>21:15</b>  | <b>Net-working</b> (with wine and beer)  |

## Friday, November 5<sup>th</sup> 2021

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| <b>07:00 - 08:30</b> | <i>Breakfast, Check-out</i><br>(Check-out until 11 am. Suitcases can be stored.)  |
| <b>08:30 - 08:45</b> | <b>Flash Talks by Associated Members</b><br>The Associated Members Petra Bacher, Marc Bramkamp and Olivia Roth present their research (5 min each). |

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| <b>08:45 - 11:15</b> | <b>INF/Z/PR – Service Facilities (Chair: E. Stukenbrock)</b>  |
|                      | <b>INF - Data management and integrated analyses</b><br>(A. Franke, M. Höppner, H. Marten)  |
| 08:45 - 09:05        | <b>INF:</b> Lucas Moitinho-Silva  |
|                      | <b>Z2 - Microorganism: Culture and single cell analysis</b><br>(R. Schmitz-Streit)  |
| 09:05 - 09:25        | <b>Z2:</b> Blanca Rincón Tomás  |
|                      | <b>Z3 - Next generation sequencing and proteomics applications for studying metaorganisms</b> (J. Baines, P. Rosenstiel, A. Tholey) |
| 09:25 - 09:45        | <b>Z3:</b> Jan Leipert  |
| 09:45 - 10:00        | <i>Coffee</i>   |
|                      | <b>PR - Communicating the metaorganism</b><br>(I. Parchmann, T. Bosch, T. Duscher)  |
| 10:00 - 10:20        | <b>PR1:</b> Christina Claussen  |
| 10:20 - 10:40        | <b>PR3:</b> Agnes Piecyk & Manuel Reitz   |
| 10:40 - 11:55        | <b>Discussion</b> Service Projects  |
| <b>11:55 - 11:10</b> | <i>Coffee</i>   |

- 11:10 - 11:20**      **Flash Talks by Associated Members**  
The Associated Members Felix Sommer and Silvio Waschina present their research (5 min each).
- 11:20 - 11:30**      **Young Scientist Project (M. Rühlemann)**
- 11:30 - 12:30**      **General Discussion**
- 12:30 - 14:00**      *Lunch*
- 13:30 - 14:00**      **Steering Committee Meeting**
- 14:15 - 15:30**      *Transportation from Timmendorfer Strand to Kiel*