Program

10:00 Welcome notes
10:05 Tom Tubbesing  
*Facilitating the exploration of microbial communities*

10:30 Janik Sielemann  
*Using graph neural networks to detect plasmid contigs from assembly graphs*

10:55 Break

11:25 Andreas Rempel  
*The pangenomics workbench*

11:50 Luca Parmigiani  
*Revisiting the pangenome openness with k-mers*

12:15 Tizian Schulz  
*Sketching homology*

12:40 Lunch

13:40 Lisa Kühnel  
*Generating synthetic data for a longitudinal, heterogeneous and incomplete dataset*

14:05 **Keynote:** Uwe Scholz, IPK Gatersleben  
*Bioinformatics in plant sciences – on the way to pan genomes*

14:45 Break

15:00 Hanna Schilbert  
*Tools to unravel the genetic basis of selected seed quality parameters in rapeseed (Brassica napus)*

15:25 Katharina Sielemann  
*Computational approaches to resolve the parental relationships of a tetraploid wild beet*

15:50 Donat Wulf  
*Single cell analysis of the developing barley leaf*

16:15 Break

16:45 Muhammad Elhossary  
*Genome-wide identification of regulatory small RNAs in bacteria based on multi-omics sequencing data*

17:10 **Keynote:** Robert Heyer, Bielefeld University  
*Challenges of (meta)proteomics data analysis*

18:00 Closing remarks / end of program
Monday

9:30  Arrival / welcome coffee
10:00
18:00  BIBI/ZB MED Workshop
19:00  Dinner
20:00  Social Event (open offer)

Tuesday

Breakfast (6:00–9:00) / Check out (You can deposit your luggage at the reception.)

9:00  Start of program

9:00  Emanuel Lange
Development of user friendly software for modeling of biological networks and omics data integration

9:25  Maximilian Wolf
Cross-validation of metaproteomic datasets

9:50  Leonard Bohnenkämper
Comparative pangenomics

10:15  Break

10:45  Manuel Feser
Crop plant diversity in the cloud

11:10  Justine Vandendorpe, Data Steward at NFDI4Microbiota, ZB MED
Research data management, part I:
Data discovery & reuse
(Faculty meets with applicants)

12:10  Lunch

13:10  Justine Vandendorpe, Data Steward at NFDI4Microbiota, ZB MED
Research data management, part II:
Reproducible data analysis

14:10  Faculty meeting