

7th BIBI/ZB MED Workshop

October 17, 2022 – Hotel Esplanade, Burgwall 3, Dortmund

Zoom: <https://uni-bielefeld.zoom.us/j/66919697709?pwd=bGpITDdsWHd4SkNaaVlVNTFiOG9BZz09>

Program

10:00 Welcome notes

10:05 Tom Tubbesing
Facilitating the exploration of microbial communities

10:30 Muhammad Elhossary
Genome-wide identification of regulatory small RNAs in bacteria based on multi-omics sequencing data

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 pangenomes

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 Janik Sielemann
Using graph neural networks to detect plasmid contigs from assembly graphs

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

18:00 **Closing remarks / end of program**