

# DILS Retreat



November 16/17, 2023 – ISAS (Otto-Hahn-Straße 6b), Dortmund

## Thursday

**9:30 Arrival / welcome coffee**

**10:00 Welcome notes**

10:05 Tom Tubbesing

*Unravelling microbiome adaptations in three production scale biogas plants*

10:30 Benedikt Osterholz

*Metagenomics-Toolkit: The flexible and efficient cloud-based metagenomics workflow with machine learning-enabled resource allocation*

**10:55 Break**

11:25 Andreas Rempel

*The pangenomics workbench*

11:50 Luca Parmigiani

*Comparing pangenome graphs using Panacus*

12:15 Leonard Bohnenkämper

*Rearrangement-based small parsimony*

**12:40 Lunch**

13:40 Manuel Feser

*On the way to plant data commons*

14:05 **Keynote:** Jianxu Chen

*Image analysis for optical microscopy in the era of AI*

**14:45 Break**

15:00 Maximilian Wolf

*Meta-analysis and bias correction of fecal metaproteomic datasets*

15:25 Emanuel Lange

*A roadmap for the MPA-Pathway-Tool towards simplified modeling and data integration*

15:50 Muhammad Elhossary

*Alternative approaches for genome-wide identification of bacterial small RNAs based on sequencing data*

**16:15 Break**

16:45 Vanessa Scharf (application)

*Construction and analysis of knowledge graph representation of bacterial small RNAs and their interactions*

17:10 Luna Pianesi (application)

*Graph neural networks and explainable AI for a new Aurora kinase inhibitor*

**17:35 End of program**

**19:00 Dinner / Social Event**

*Hicc Upp (Wittener Straße 205)*

# Friday

## 9:00 Start of program

9:00 Daniel Göbel, Michael Beckstette  
*CloWM – Cloud based Workflow Manager*

9:45 *Hands-on-session: Working with CloWM*

(in parallel: faculty meeting)

## 10:30 Break

11:00 Tutorial continued

(in parallel: faculty meeting)

## 12:30 Lunch / End of program

