

INDEPTH Summer School 2023

Tuesday, August 22nd 2023

Lecture session

*Venue: The Library of the University of Gdansk, Wita Stwosza 53,
lecture hall 0.28*

- 10.00-10.10 **Indepth Welcome**
- 10.10-10.45 **Takao Ishikawa** | University of Warsaw, Poland
Functional bioprospecting of cold-active enzymes using a fosmid-based metagenome library of cold-active microorganisms
- 10.50-11.30 **Karol Ciuchciński** | University of Warsaw, Poland
Leveraging protein sequences, profiles and structures for the identification of novel enzymes from metagenomic data
- 11:30-11:50 *Coffee break*
- 11.50-12.35 **Przemysław Decewicz** | University of Warsaw, Poland
Indepth annotation, curation, validation and reuse of (meta)genomic data
- 12:40-13:30 **Wojciech Rypniewski** | Institute of Bioorganic Chemistry of PAS in Poznań, Poland
How proteins from extremophiles are adapted to their working conditions
- 13:30-14:30 *Lunch (restricted to the INDEPTH members)*

Hands-on workshop

*Venue: The Faculty of Biology, Wita Stwosza 59,
Dept. of Microbiology/ KPD collection, 3rd floor, Lab no A416*

- 15:00-17:30 **Anna Karina Kaczorowska** | University of Gdańsk, Poland
NanoDSF workshop. Real-life applications

The workshop is open to the public, however, due to the limited no. of participants please register at <https://forms.gle/ZwYXEbrby7RpPzzR6>



Deep-Sea Chat

Wednesday, August 23rd 2023

Lecture session

*Venue: The Library of the University of Gdansk, Wita Stwosza 53,
lecture hall 0.28*

- 10.00-10.05 **Indepth Welcome**
- 10.05-10.50 **Ida Helene Steen** | University of Bergen, Norway
Physiology of key microbial lineages in hydrothermal vents
- 10.55-11.40 **Runar Stokke** | University of Bergen, Norway
Microbial bioresources in the deep sea; from in situ enrichments to functional enzymes
- 11:45-12:00 *Coffee break*
- 12.00-12.45 **Mohamed Jebbar** | University of Western Brittany, France
Title to be announced
- 12:50-13:35 **Jan Pawłowski** | Institute of Oceanology PAS in Sopot, Poland
Integrating eDNA metabarcoding to monitor current and past anthropogenic impacts on marine biodiversity
- 13:40-14:45 *Lunch (restricted to the INDEPTH members and invited speakers)*
- 15:30-17:00 *Internal meeting*

Deep-Sea Chat

deep-sea microbiology • nanopore sequencing • metagenomics • protein modelling • bioprospection

INDEPTH Summer School 2023

Thursday, August 24th 2023

Lecture session

*Venue: The Library of the University of Gdansk, Wita Stwosza 53,
lecture hall 0.28*

- 10.00-10.05 **Indepth Welcome**
- 10.05-10.50 **Stefanie Freitag-Pohl** | Durham University, UK
*The art of crystallography - the VIRUS-X project protein structures,
a case study*
- 11:00-11:20 *Coffee break*
- 11.20-12.00 **Ehmke Pohl** | Durham University, UK
From protein structure determination to structure prediction
- 12.30-13.30 *Lunch (restricted to the INDEPTH members and invited speakers)*

Hands-on workshop

- 13:30-15:00 **Ehmke Pohl** | Durham University, UK
*What structural databases and structure prediction, including AlphaFold,
can do for you (and not do for you)*

This is an open workshop. Please bring your laptop with you
and register at <https://forms.gle/9fNqGfiMlyk7gH8z7>



- 19:00 *Dinner at TREINTA Y TRES at the Olivia Star
(restricted to the INDEPTH and invited speakers)*

Deep-Sea Chat

INDEPTH Summer School 2023

Friday, August 24th 2023

Lecture session

Venue: The Building of Faculty of Biology, Gdańsk, Wita Stwosza 59, lecture hall C108

- 10.00-10.05 **Indepth Welcome**
- 10.05-11.00 **Jörn Kalinowski** | University of Bielefeld, Germany
Metagenomics
- 11:00-11:30 *Coffee break*
- 11.30-12.30 **Jörn Kalinowski** | University of Bielefeld, Germany
Nanopore sequencing technology
- 12.30-13.30 *Lunch (restricted to the INDEPTH and invited speakers)*

Hands-on workshop

*The workshop will be held on the 3rd floor in the labs of the Dept. Of Microbiology
No of participants limited.*

- 13:30-15.30 **Levin Joe Klages** | University of Bielefeld, Germany
Nanopore sequencing lab experiments
- 16.00-18.00 **Levin Joe Klages, Jörn Kalinowski** | University of Bielefeld, Germany
Nanopore data analysis & discussion round

Deep-Sea Chat