

HALOS HELIOS Workshop Programme

20th April 2022, 9:00 – 16:00

9:00 **Welcome**

9:10 **Introduction HELIOS and funding opportunities**

Mathieu Gisselbrecht, Lund University

9:40 **Introduction HALOS**

Arwen Pearson, University of Hamburg

10:00 **Coffee break**

10: 30 **HELIOS and HALOS keynote talks (15 minutes each)**

HALOS:

“Understanding molecular changes in post-COVID-19 lung tissue, using synchrotron-based spectroscopies”

Oxana Klementieva, Lund University

“HALOS and small angle X-ray scattering at EMBL/DESY - the analysis of protein structural ensembles as key intermediaries in neuroprotection and transcriptional regulation.”

Cy Jeffries, EMBL Hamburg

“Synchrotron X-ray micro-CT imaging for resolving complex 3D structural changes in the fibrotic liver”

Anja Schmidt-Christensen, Lund University

HELIOS:

“Nanodevices combining optics and nanofluidics for DNA analysis”

Irene Fernandez Cuesta, University of Hamburg

“Capturing biomolecular dynamics at extreme time scales”

Francesca Calegari, DESY Hamburg

"Big Data for Science: Challenges and Solutions"

Oxana Smirnova, Lund University

12:00 **Lunch**

13:00 **Breakout room discussions (with 15-minute breaks every 45 minutes)**

Breakout room 1

Topic: "Data in sciences and life sciences"

Chaired by Anders Sjöström, Lund University

Breakout room 2

Topic: Dynamics

Chaired by Arwen Pearson, University of Hamburg

Breakout room 3

Topic: Imaging

Chaired by Liz Duke, EMBL Hamburg

15:45 **Wrap up**

16:00 **Finish**