

HALOS HELIOS Knowledge Exchange Workshop

Wednesday 20 April 2022 - Wednesday 20 April 2022

Zoom

Scientific Programme

HELIOS/HALOS workshop programme

20 April 2022, 9:00 – 16:00

9:00 Welcome

9:10 Introduction HELIOS and funding opportunities

Mathieu Gisselbrecht

9:40 Introduction HALOS

Arwen Pearson

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

“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

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

Anja Schmidt-Christensen

HELIOS:

“Nanodevices combining optics and nanofluidics for DNA analysis”

Irene Fernandez Cuesta

“Capturing biomolecular dynamics at extreme time scales”

Francesca Calegari

“Big Data for Science: Challenges and Solutions”

Oxana Smirnova

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

Breakout room 2

Topic: Dynamics

Chaired by Arwen Pearson

Breakout room 3

Topic: Imaging

Chaired by Liz Duke

15:45 Wrap up

16:00 Finish