

**Amyloid proteins meet
physics: from X-rays and
neutrons over electrons to
magnetism**

Report of Contributions

Contribution ID: 2

Type: **not specified**

none

Monday, September 5, 2022 9:00 PM (30 minutes)

Contribution ID: 3

Type: **not specified**

Coherent Electron Diffractive Imaging in single particle cryo-EM

Monday, September 5, 2022 9:00 AM (30 minutes)

Presenter: STAHLBERG, Henning (EPFL, Electron diffraction and imaging)

Session Classification: Visualising amyloid deposits by X-rays and electrons

Contribution ID: 4

Type: **not specified**

X-ray nanotomography of biological tissues by ptychographic tomography

Monday, September 5, 2022 9:30 AM (20 minutes)

Presenter: DIAZ, Ana (PSI, cSAXS beamline, X-ray ptychography imaging)

Session Classification: Visualising amyloid deposits by X-rays and electrons

Contribution ID: 5

Type: **not specified**

X-ray phase contrast tomography at the TOMCAT beamline: a focus on brain imaging

Monday, September 5, 2022 9:50 AM (20 minutes)

Presenter: BONNIN, Anne (PSI, Tomcat beamline, X-ray phase contrast imaging)

Session Classification: Visualising amyloid deposits by X-rays and electrons

Contribution ID: 6

Type: **not specified**

Copper bound to amyloid-beta: from structure and reactivity insights to its targeting as therapeutic approach

Monday, September 5, 2022 10:30 AM (30 minutes)

Presenter: FALLER, Peter (University of Strasbourg, EPR & X-ray)

Session Classification: Visualising amyloid deposits by X-rays and electrons

Contribution ID: 7

Type: **not specified**

Soft X-Ray Spectromicroscopy for Nanoscale Chemical Characterization at the SIM Beamline of the SLS

Monday, September 5, 2022 11:00 AM (20 minutes)

Presenter: KLEIBERT, Armin (PSI, SIM beamline, photo-emission electron microscopy)

Session Classification: Visualising amyloid deposits by X-rays and electrons

Contribution ID: 8

Type: **not specified**

Alanine switches protein crystal formation to amyloid fibril formation

Monday, September 5, 2022 11:20 AM (20 minutes)

Presenter: STERNKE-HOFFMANN, Rebecca (PSI, BIO Department)

Session Classification: Visualising amyloid deposits by X-rays and electrons

Contribution ID: 9

Type: **not specified**

The structural and dynamics landscape of proteins using NMR

Monday, September 5, 2022 1:00 PM (30 minutes)

Presenter: RIEK, Roland (ETH, NMR)

Session Classification: Studying amyloid dynamics and metal ions by X-rays and magnetism

Contribution ID: **10**

Type: **not specified**

X-ray absorption spectroscopy provides insight in the oxidation state and local structure of metal sites

Monday, September 5, 2022 1:30 PM (20 minutes)

Presenter: NACHTEGAAL, Maarten (PSI, SuperXAS, X-ray spectroscopy)

Session Classification: Studying amyloid dynamics and metal ions by X-rays and magnetism

Contribution ID: 11

Type: **not specified**

Insights Into Amyloid-Copper Interaction From Soft X-Ray Absorption Spectroscopy

Monday, September 5, 2022 1:50 PM (20 minutes)

Presenter: DREISER, Jan (PSI, Xtreme beamline for XMCD, X-ray magnetic circular dichroism)

Session Classification: Studying amyloid dynamics and metal ions by X-rays and magnetism

Contribution ID: 12

Type: **not specified**

Probing the effects of lipids and lipid membrane on amyloid aggregation

Monday, September 5, 2022 2:30 PM (30 minutes)

Presenter: RAMAMOORTHY, Ayyalusamy (The University of Michigan, Ann Arbor, NMR)

Session Classification: Studying amyloid dynamics and metal ions by neutrons and magnetism

Contribution ID: 13

Type: **not specified**

Identifying the role of co-aggregation of Alzheimer's Amyloid- β with amorphous protein aggregates of non-amyloid proteins

Monday, September 5, 2022 3:00 PM (20 minutes)

Presenter: WU, Jinming (PSI, BIO Department)

Session Classification: Studying amyloid dynamics and metal ions by neutrons and magnetism

Contribution ID: 14

Type: **not specified**

Protein dynamics: what can we learn from neutron spectroscopy

Monday, September 5, 2022 3:20 PM (20 minutes)

Presenter: JURANYI, Fanni (PSI, FOCUS, neutron spectroscopy)

Session Classification: Studying amyloid dynamics and metal ions by neutrons and magnetism

Contribution ID: 15

Type: **not specified**

Amyloid fibrils: sustainable building blocks for materials science

Monday, September 5, 2022 3:40 PM (20 minutes)

Presenter: LÜTZ BUENO, Viviane (PSI, SANS, neutron scattering)

Session Classification: Studying amyloid dynamics and metal ions by neutrons and magnetism