

# PANACEA 4<sup>th</sup> Annual Users Meeting PROGRAM

Saturday June 27, Göteborg, Sweden

Venue: Quality Hotel 11, Teater Lärtingen, Maskingatan 11

08:40 - 09:00

Welcome and registration

09:00 - 09:20

Introductory remarks and PANACEA highlights

09:20 - 10:20

## I. Methods and software developments

**Marina Carravetta, University of Southampton, UK**

*TBA*

**Daniel Topgaard, Lund University, Sweden**

*TBA*

**Kersten Ulrich, University of Würzburg, Germany**

*Compartment-selective DNP-NMR for the analysis of drug-loaded polymer micelles*

10:20 - 10:50

Coffee break

10:50 - 12:10

## II. Solid-state NMR for materials

**Carla Torres, Institute of Materials Science of Barcelona, Spain**

*In-situ multinuclear MAS NMR measurements during the formation of BaZrO<sub>3</sub> nanoparticles: insights into the H<sub>2</sub>S<sub>2</sub> synthetic mechanism*

**Filipe Natalio, University of Porto, Portugal**

*Solid-state NMR signatures of thermal alteration in 400 ka archaeological bones*

**Anika Mael, University of Bayreuth, Germany**

*Life in plastic, it's fantastic? Following the degradation of additivated microplastic with DNP-enhanced solid-state NMR spectroscopy*

**Elisa Della Latta, University of Pisa, Italy**

*Investigating lead halide perovskite surfaces using single crystal solid-state NMR*

12:10 - 12:30

PANACEA user assembly

12:30 - 13:30

Lunch

13:30 - 14:30

## III. Fluorine solid-state NMR

**Staffan Schantz, AstraZeneca, Sweden**

*Fluorine solid-state NMR for pharmaceutical application*

**Alons Lends, Latvian Institute of Organic Synthesis, Latvia**

*Probing fungal cells using <sup>19</sup>F detected DNP MAS NMR*

**Edward Benson, University of Rostock, Germany**

*<sup>19</sup>F cross relaxation under dynamic nuclear polarization*

14:30 - 15:00

Stakeholder and policy maker round table discussion

15:00 - 15:30

Coffee break

15:30 - 16:30

## IV. Solid-state NMR for inorganic and hybrid materials

**Dominik Kubicki, University of Birmingham, UK**

*New approaches to determining the atomic-level structure of advanced materials*

**Daniel Lee, The University of Manchester, UK**

*DNP-enabled structure determination of covalent organic frameworks and inorganic semiconductor nanocrystals*

**Pedro Groszewics, Delft University of Technology, Netherlands**

*Unraveling structural disorder and oxide ion dynamics for La<sub>2</sub>Mo<sub>2</sub>O<sub>9</sub> (LAMOX) with high-temperature <sup>17</sup>O NMR and DFT*

16:30 - 17:30

## V. Solid-state NMR for biological applications

**Mei Hong, Massachusetts Institute of Technology, USA**

*TBA*

**Tiago Mendes Ferreira, University of Santiago de Compostela, Spain**

*Using solid-state NMR to explore the chaotropic behaviour of boron particles and their effect on lipid membranes*

17:30 - 18:00

**TBSSNMRGYWEPIYL**

18:30 - 21:30

Dinner cruise in the archipelago