

International Conference on Science and Technology of Pharmaceutical Glass

Program

9:30 Opening
 Kohsaku Kawakami (National Institute for Materials Science)

Chair: Kohsaku Kawakami

9:35 On the various factors controlling the physical stability of amorphous pharmaceuticals
 Marian Paluch (University of Silesia)

10:00 Milling as a tool to manipulate and screen amorphism and polymorphism
 Marc Descamps (University of Lille)

Chair: Kenjiro Higashi

10:25 Understanding structural mobility and crystallization in amorphous pharmaceutical systems using
 solid-state NMR spectroscopy
 Eric Munson (Purdue University)

10:50 Design strategies for electrospun drug carriers: towards predictable drug release
 Satyavrata Samavedi (IITH)

11:15 Break

Chair: Justyna Knapik-Kowalczyk

11:25 Characterization of drug nanosuspension
 Kunikazu Moribe (Chiba University)

11:50 Influence of nucleation on dynamics of celecoxib glass
 Xue Han (National Institute for Materials Science)

12:05 Correlation between drug molecular state in cyclodextrin-polypseudorotaxane complexes and its
 sublimation rate
 Sudeshna Kundu (Chiba University)

12:20 Lunch Break

Chair: Ivo Rietveld

13:20 Impact of very low concentration of water on the dynamics of amorphous pharmaceuticals
Frederic Affouard (University of Lille)

13:45 Using the kinetic triplet to assess solid dispersion thermal stability
Dijana Jelic (University of Banja Luka)

Chair: Keisuke Ueda

14:10 Detecting local glass-transition temperatures in amorphous materials with low frequency raman spectroscopy
Keith Gordon (University of Otago)

14:25 Second harmonic generation as a sensitive tool to study recrystallization stability in atrovastatin calcium - PVP mixtures
Ivo Rietveld (University of Rouen-Normandie)

14:50 Coffee Break

Chair: Satyavrata Samavedi

15:05 Crystallization of amorphous drug nanoparticle in water
Kenjirou Higashi (Chiba University)

15:30 Interests of dielectric relaxation spectroscopy to investigate different properties of pharmaceuticals
Natalia Correia (University of Lille)

Chair: Marian Paluch

15:55 Observation of crystallization of amorphous acetaminophen by submicron x-ray computed tomography
Tamaki Miyazaki (NIHS)

16:20 ASD development with milligrams
Daniel Treffer (MeltPrep)

16:45 Break

Chair: Eric Munson

- 16:50 Tunable physical state of aripiprazole in the presence of mesoporous silica materials
Justyna Knapik-Kowalczyk (University of Silesia)
- 17:15 NMR-based characterization of liquid-liquid phase separation of supersaturated drug
Keisuke Ueda (Chiba University)
- 17:40 Impact of liquid-liquid phase separation on oral absorption of supersaturated drugs
Kohsaku Kawakami (National Institute for Materials Science)
- 18:05 Closing
Kohsaku Kawakami (National Institute for Materials Science)
- 19:00 Banquet