

Soft Matter Biomimetics symposium

AMOLF, Friday 16 November, 2018

PROGRAMME

9:00-9:20 Coffee/Tea

9:20-9:30 Welcome Gijsje Koenderink

Session chair: Gijsje Koenderink (AMOLF)

9:30-10:00 **Orlin Velev (North Carolina State University, USA)**

Novel nature-inspired soft matter features: particles with “gecko legs” and hydrogels with skin-like vascularization

10:00-10:30 **Paul Janmey (University of Pennsylvania, USA)**

Viscous dissipation in soft substrates affects focal adhesion formation, cell morphology, and motility

10:30-11:00 Break

Session chair: Renko de Vries (Wageningen University)

11:00-11:30 **Patricia Dankers (Eindhoven University of Technology)**

Dynamic reciprocity in supramolecular systems: engineering the cell-material interface

11:30-12:00 **Marleen Kamperman (University of Groningen)**

Bioinspired complex coacervate-based adhesives

12:00-13:00 Lunch

13:00-14:00 Poster session

Session chair: Bela Mulder (AMOLF)

14:00-14:30 **Nathalie Katsonis (University of Twente)**

Light-responsive biomimetic springs

14:30-15:00 **Tuomas Knowles (University of Cambridge, UK)**

Artificial functional materials from natural proteins

15:00-15:30 **Corentin Coulais (University of Amsterdam)**

From mechanical metamaterials to machine materials

15:30-16:00 Break

Session chair: Simeon Stoyanov (Unilever R&D/Wageningen University)

16:00-16:30 **Peter Fisher (ETH Zurich, Switzerland)**

Tailoring emulsions for controlled lipid release – establishing in vitro-in vivo correlation for digestion of lipids

16:30-17:00 **Julian Bent (Unilever R&D, UK)**

Protein structures in ice-cream

17:00-18:00 Drinks

18:00 Closing