

Surfaces – Fate of Biomaterials

Program

21. – 25. September 2015

Monday 21.09.15 (FU – Berlin, Takustr. 3, OC Lecture Hall)

9:15 – 9:30 Opening and Welcome Helmholtz Graduate School for Macromolecular Bioscience Prof. Dr. Nan Ma (Speaker)

9:30 – 10:20 Presentation JProf. Dr. Marie Weinhart (FU Berlin), Title: From Thermoresponsive Surfaces to 3-Dimensional Tissues *in vitro*

10:20 – 11:10 Presentation Guest Speaker Dr. Marc Brzeziński (Humboldt Fellow), Title: Synthesis and self-assembly of 2-ureido-4[1H]-pyrimidinone-functionalized poly(lactide)

11:10 – 11:30 Coffee break

11:30 – 12:30 Presentations Students (3 a 20 min.)

11:30 – 11:50 N.N. (flexible Slot)

11:50 – 12:10 Pradip Dey (AG Haag, FU Berlin), Title: Mimicking of Chondrocyte Microenvironment Using Dendritic Polyglycerolsulfate (dPGS) based Hydrogels

12:10 – 12:30 Christoph Schlaich (AG Haag, FU Berlin), Title: Mussel-inspired dendritic polymer based surface coatings and their biological application

12:30 – 14:00 Lunch break

14:00 – 15:40 Presentation Prof. Nan Ma (FU – Berlin/HZG), Title: Extracellular matrix, stem cell and biomaterials

15:40 – 16:00 Coffee break

16:00 – 17:00 Summary of the day / Scientific Challenge

Tuesday 22.09.2015 (HZG, together with HVI, Building D, Lecture Hall)

9:15 – 9:30 Welcome at the HZG: Prof. Dr. Andreas Lendlein

9:30 – 10:30 Guest Speaker (HVI) Prof. Oguz Okay (Istanbul Technical University, Dep. of Chemistry), Title: Supramolecular self-healing hydrogels based on synthetic and natural polymers

10:30 – 11:00 Coffee break

11:00 – 12:30 Presentations HVI Students / Flex Fund group leaders (4 a 15 min. + Discussion)

11:00 – 11:15 M. Sc. Thanga Bhuvanesh (AG Lendlein, HZG), Title: Interaction of immune cells with defined protein layers

11:15 – 11:30 Dipl. Phys. Robert Brodewolf (AG Alexiev, FU Berlin), Title: Fluorescence lifetime imaging microscopy as a tool for the analysis of nanoparticle - biomolecule interactions

11:30 – 11:45 M.Sc. Enrico Miceli (AG Calderon, FU Berlin), Title: Protein corona analysis on thermoresponsive nanogels

11:45 – 12:00 M.Sc. Katja Obst (AG Hedtrich, FU Berlin), Title: Characterization and biological analysis of protein corona

12:00 – 14:00 Lunch break

14:00 – 15:30 The MacroBio Science Club – International, Scientific Meeting Point, Presentation and Discussion

15:30 – 16:00 Coffee break

16:00 – 17:00 Summary of the day / Scientific Challenge

Wednesday 23.09.2015 (University Potsdam, Golm, Building 25, Room F 0.01)

9:15 – 10:15 Welcome at the University Potsdam: N.N. and

Presentation Prof. Heiko Möller, Title: NMR-Spectroscopy – A Multifaced View on Biomolecular Structures and Interactions

10:15 – 11:15 Presentation Prof. Helmut Möhwald (University Potsdam), Title: From Langmuir Monolayers to Multilayers and Capsules

11:15 – 11:45 Coffee break

11:45 – 12:45 Presentation JProf. Ilko Bald, Title: Molecular Processes Studied on DNA Origami Nanostructures

12:45 – 14:00 Lunch break

14:00 – 15:15 Presentation Students (3 a 20 min.)

14:00 – 14:25 Liudmila Lysyakova (AG Santer, University Potsdam). Title: Interaction of azobenzenes with plasmonic nanoparticles

14:25 – 14:50 Anne-Christin Schöne (AG Schulz, University Potsdam/HZG), Title: New perspectives on LMD experiments

14:50 – 15:15 Student Tapas Deb Shama (AG Linker, University Potsdam), Title:

15:15– 15:45 Coffee break

15:45 – 16:15 Summary of the day / Scientific Challenge

Thursday 24.09.2015 (HZG, Building M, Lecture Hall)

9:00 – 11:00 International Guest Speaker: Prof. Kevin Cavicchi, University of Akron, Dep. Polymer Engineering

11:00 – 12:30 Assembly of the MacroBio Students, Election of Student Representatives

12:30 – 14:00 Break, refreshments

14:00 – 15:00 Winning ceremony Student presentation / Scientific Challenge

15:00 MacroBio BBQ

Friday 25.09.2015 (HZG, Building M, Lecture Hall, International Day, Team Event)

10:00 – 11:30 International Guest Speaker: Prof. Eugenia Kumacheva, University of Toronto, Dep. of Chemistry, Title: Self-assembly of nanoparticles: lessons from polymer chemistry and physics

11:30 – 12:00 Break

12:00 – 16:00 Team building event (Hochseilgarten Jungfernheide)

16:00 – 17:00 Closing ceremony