



KICK-OFF MEETING TUESDAY 17.09.24

11:30 REGISTRATION & LUNCH SNACK

12:15 Welcome (**A. del Campo**)

12:30 TEAMWORK (**H. Jahn-Kelleter**)

PROJECT PRESENTATIONS I – Chair: **Christine Selhuber-Unkel**

13:30 Living electro-biocatalyst scaffolds for sensing and cleaning
(**L. Adrian, Z. Altintas**)

13:45 Engineering adaptive *Vibrio natriegens* strains for bacteria hybrid light emitting diodes
(ENABLED) (**R. Costa**)

14:00 Adaptive biomaterials through mechano-modulating bacteria
(**A. Blaeser, H. Koeppl**)

14:15 Self-synthesizing, self-organizing, and stimuli-responsive multi-cell-type Engineered
Living Materials based on enzymatic polymerizations on cell surfaces (PolyCell-ELMs)
(**N. Bruns, U. Nuber**)

14:30 Adaptive capsule-based materials for programming engineered living systems
(**K. Jacobs, C. Selhuber-Unkel**)

14:45 Living Therapeutic Materials with long term, sonoresponsive and mechanoadaptive
function (**A. del Campo, A. Herrmann**)

15:00 Smart Stimuli-Responsive Opalescent Bacterial Films (OPAL-Bac)
(**S. Verwaayen - M. Gallei, M. Schneider**)

15:15 COFFEE BREAK

PROJECT PRESENTATIONS II – Chair: **Wilfried Weber**

15:45 SporoPrinting – 3D matrices for immobilizing and controlling functionalized
SporoBeads of *B. subtilis* as a structured protein displaying ELM platform with adaptive
functions
(**M. Gelinsky, T. Mascher**)

16:00 ProbioGel as Adaptive Living Skin and Wound Therapeutics
(**E. Heine**)

16:15 Adaptive Engineered Bacterial Coacervates
(**D. Iorio, B. Philipp**)

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| 16:30 | Engineered Living Actuators from Filamentous Cyanobacteria (L. Ionov, S. Karpitschka, H. Stark) |
| 16:45 | Combining stimuli-responsive hydrogels and scaffold-supported microbial biofilms for a self-controlled catalytic activity of a microbial leaf (R. Karande, T. Pompe) |
| 17:00 | ContainELMs – Material-centric genetic programming of biocontainment in engineered living materials (M. König, S. Sankaran) |
| 17:15 | Living Plasmonics: Distributed environmental sensing with photoluminescent sensor ELM through enzymatic coupling of bacterial sensing with nanoplasmonics (W. Weber, T. Kister (o.b.o T. Kraus)) |
| 17:30 | Adaptive Living Seed Coatings (S. Bulut (o.b.o A. Pich), U. Schwaneberg) |
| 17:45 | Reports TEAMWORK |
| 18:15 | Data Management (C. Müller) |
| 18:30 | Next steps in SPP2451 (H. Jahn-Kelleter) |

18:45 POSTER SESSION

19:15 DINNER at AC



The **Meeting** will take place in the assembly hall (Aula, bldg. A3 3) of the Saarland University within walking distance from **INM – Leibniz Institute for New Materials Campus D2 2, 66123 Saarbrücken, Germany**

The **Dinner** will be served at the AC located in proximity of the Aula.

