

Nachwuchsakademie Engineered Living Materials, Workshop for Young Scientists, 17-21st June 2022 - GENERAL PROGRAM

Fr 17.06.22 INM	Sat 18.06.22 Europäische Akademie Otzenhausen	Sun 19.06.22 Europäische Akademie Otzenhausen	Mon 20.06.22 INM labs	Tue 21.06.22 Morning: INM Leibniz-Saal Afternoon: Aula Saarland Uni
8:45 Meeting Point at INM reception 9:00 – 9:30 WELCOME & PARTICIPANTS PRESENTATION 20 participants (1 min each) (Room: Leibniz Saal) 9:30-13:00 INTRODUCTORY LECTURES (30+10 min each) (Room: Leibniz Saal) • Self-regenerating Programmable Living Materials Anna Duraj-Thatte / Virginia Tech • Living Therapeutic Materials Shrikrishnan Sankaran / INM 11:00-11:30 coffee break • ELMs in biotechnology Rahul Kumar / Tallinn U • ELMs for sensing Shrikrishnan Sankaran / INM	From 07:30 breakfast 9:00 – 11:00 METHODS TOOLBOX MATERIALS TRACK (Room: Roma) • Technologies for cell encapsulation Stefan Brück / INM Maria Puertas / INM SYNTHETIC BIOLOGY TRACK (Room: Forum) • Programming microbial cells Tzu-Chieh Tang / MIT • Programming mammalian cells Wilfried Weber / U Freiburg 11:30 – 13:00 Poster Session	From 07:30 breakfast 9:00 – 10:30, 11:00-12:00 METHODS TOOLBOX MATERIALS TRACK (Room: Roma) • Mechanical properties and stability of materials Samuel Pearson / INM • Imaging ELMs Rahul Kumar / Tallin U SYNTHETIC BIOLOGY TRACK (Room: Forum) • Optogenetics – control of cells and materials Wilfried Weber / U Freiburg • Spatiotemporal control of ELMs – synthetic pattern formation Sara Molinari / Rice University	8:45 Meeting Point at INM reception 9:00 – 12:00 PRACTICAL TRAINING MATERIALS TRACK • ELM fabrication Shardul Bhusari, Stefan Brück, Zahra Kafrashian, Hanuman Khalari / INM SYNTHETIC BIOLOGY TRACK • Design your synthetic gene network Rosanne Schmachtenberg, Johannes Falkenstein, Mateo Laskowski / Uni Freiburg	8:15 Meeting Point at INM reception 8:30 – 12:30 WRITING SKILLS SEMINAR • Compiling and Defending your Research proposal Annette Kolb / Golin Wissenschaftsmanagement
13:00 → Lunch at Restaurant; Meeting point: INM reception	13:15 Lunch	12:15 Lunch	12:00 → Lunch at Restaurant Meeting point: INM reception	12:30 → Lunch at Restaurant (AC)
15:00 – 17:00 METHODS TOOLBOX MATERIALS TRACK (Room: Hörsaal A) • Energy cells and cells for energy Volker Presser / INM • Materials for cell encapsulation Aránzazu del Campo / INM SYNTHETIC BIOLOGY TRACK (Room: Leibniz-Saal) • The synthetic biology concept Wilfried Weber / U Freiburg 17:00 Bus to Otzenhausen The bus starts from bus stop “Universität Campus”	15:00 – 15:45 METHODS TOOLBOX MATERIALS TRACK (Room: Roma) • Interfaces and (bio)hybrid materials Aránzazu del Campo / INM SYNTHETIC BIOLOGY TRACK (Room: Forum) • Programming de novo ELM formation Sara Molinari / Rice University 15:45 – 16:30 (Room: Forum) • Startups working on synbio-powered materials and ELMs Tzu-Chieh Tang / MIT 16:30 – 17:15 • Living Fungal-Bacterial Biocomposite Structures Ross McBee / U Columbia 17:15-18:15 Poster Session	14:00 – 15:30 METHODS TOOLBOX MATERIALS TRACK (Room: Roma) • Porosity and diffusion across materials Aránzazu Campo / INM • Biocompatibility and safety Sara Trujillo / INM SYNTHETIC BIOLOGY TRACK (Room: Forum) • Model-driven optimization of biological systems Rafael Arutjunjan, Wilfried Weber / U Freiburg 15:30 – 16:15 (Room: Forum) • Title to be announced Ross McBee / U Columbia 16:30 Bus to Saarbrücken → B&B hotel → Hotel Leidinger → Universität Campus	13:30 – 16:30 PRACTICAL TRAINING MATERIALS TRACK • ELM characterization Shardul Bhusari, Stefan Brück, Zahra Kafrashian, Hanuman Khalari / INM SYNTHETIC BIOLOGY TRACK • Implement your synthetic gene network Rosanne Schmachtenberg, Johannes Falkenstein, Mateo Laskowski / Uni Freiburg 16:30 INM Tour Mario Quilitz / INM Meeting point: reception INM	→ Aula of Saarland University (Building A3 3) 13:20 MEET THE EXPERTS at the ELM 2022 conference 21.-23.06.2022 Further details: www.livingmaterials2022.de
18:30 Welcome BBQ	18:30 Dinner	---	---	18:30 Poster Session with finger food