

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

Fri 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
<p>8:45 Meeting Point at INM reception 9:00 – 9:30 WELCOME & PARTICIPANTS PRESENTATION 20 participants (1 min each) (Room: Leibniz Saal)</p> <p>9:30-13:00 INTRODUCTORY LECTURES (30+10 min each) (Room: Leibniz Saal)</p> <ul style="list-style-type: none"> • Self-regenerating Programmable Living Materials Anna Duraj-Thatte / Virginia Tech • Living Therapeutic Materials Shrikrishnan Sankaran / INM <p><i>11:00-11:30 coffee break</i></p> <ul style="list-style-type: none"> • ELMs in biotechnology Rahul Kumar / Tallinn U • ELMs for sensing Shrikrishnan Sankaran / INM 	<p><i>From 07:30 breakfast</i></p> <p>9:00 – 11:00 METHODS TOOLBOX</p> <p>MATERIALS TRACK (Room: Roma)</p> <ul style="list-style-type: none"> • Technologies for cell encapsulation Stefan Brück / INM Maria Puertas / INM <p>SYNTHETIC BIOLOGY TRACK (Room: Forum)</p> <ul style="list-style-type: none"> • Programming microbial cells Tzu-Chieh Tang / MIT • Optogenetics – control of cells and materials Wilfried Weber / U Freiburg <p>11:30 – 13:00 Poster Session</p>	<p><i>From 07:30 breakfast</i></p> <p>9:00 – 10:30, 11:00-12:00 METHODS TOOLBOX</p> <p>MATERIALS TRACK (Room: Roma)</p> <ul style="list-style-type: none"> • Mechanical properties and stability of materials Samuel Pearson / INM • Imaging ELMs Rahul Kumar / Tallinn U <p>SYNTHETIC BIOLOGY TRACK (Room: Forum)</p> <ul style="list-style-type: none"> • Programming mammalian cells Wilfried Weber / U Freiburg • Spatiotemporal control of ELMs – synthetic pattern formation Sara Molinari / Rice University 	<p>8:45 Meeting Point at INM reception 9:00 – 12:00 PRACTICAL TRAINING</p> <p>MATERIALS TRACK</p> <ul style="list-style-type: none"> • ELM fabrication Shardul Bhusari, Stefan Brück, Zahra Kafrashian, Hanuman Kalari / INM <p>SYNTHETIC BIOLOGY TRACK</p> <ul style="list-style-type: none"> • Design your synthetic gene network Rosanne Schmachtenberg, Johannes Falkenstein, Anja Armbruster/ U Freiburg 	<p>8:15 Go to Leibniz-Saal 8:30 – 12:30 WRITING SKILLS SEMINAR</p> <ul style="list-style-type: none"> • Compiling and Defending your Research proposal Annette Kolb / Golin Wissenschaftsmanagement
<p><i>13:00 → Lunch at Restaurant</i> <i>Meeting point: INM reception</i></p>	<p><i>13:15 Lunch</i></p>	<p><i>12:15 Lunch</i></p>	<p><i>12:00 → Lunch at Restaurant</i> <i>Meeting point: INM reception</i></p>	<p><i>12:30 → Lunch at Restaurant (AC)</i></p>
<p>15:00 – 17:00 METHODS TOOLBOX</p> <p>MATERIALS TRACK (Room: Hörsaal A)</p> <ul style="list-style-type: none"> • Energy cells and cells for energy Volker Presser / INM • Materials for cell encapsulation Aránzazu del Campo / INM <p>SYNTHETIC BIOLOGY TRACK (Room: Leibniz-Saal)</p> <ul style="list-style-type: none"> • The synthetic biology concept Wilfried Weber / U Freiburg <p>17:00 Bus to Otzenhausen The bus starts from bus stop “Universität Campus”</p>	<p>15:00 – 15:45 METHODS TOOLBOX</p> <p>MATERIALS TRACK (Room: Roma)</p> <ul style="list-style-type: none"> • Interfaces and (bio)hybrid materials Aránzazu del Campo / INM <p>SYNTHETIC BIOLOGY TRACK (Room: Forum)</p> <ul style="list-style-type: none"> • Programming de novo ELM formation Sara Molinari /Rice University <p>15:45 – 16:30 (Room: Forum)</p> <ul style="list-style-type: none"> • Startups working on synbio-powered materials and ELMs Tzu-Chieh Tang / MIT <p>16:30 – 17:15 <ul style="list-style-type: none"> • Living Fungal-Bacterial Biocomposite Structures Ross McBee / U Columbia </p> <p>17:15-18:15 Poster Session</p>	<p>14:00 – 15:30 METHODS TOOLBOX</p> <p>MATERIALS TRACK (Room: Roma)</p> <ul style="list-style-type: none"> • Porosity and diffusion across materials Aránzazu Campo / INM • Biocompatibility and safety Sara Trujillo / INM <p>SYNTHETIC BIOLOGY TRACK (Room: Forum)</p> <ul style="list-style-type: none"> • Model-driven optimization of biological systems Rafael Arutjunjan, Wilfried Weber / U Freiburg <p>15:30 – 16:15 (Room: Forum)</p> <p>Ways of Pipetting: what can art teach scientists? Ross McBee / U Columbia</p> <p>16:30 Bus to Saarbrücken →B&B hotel →Hotel Leidinger →Universität Campus</p>	<p>13:30 – 16:30 PRACTICAL TRAINING</p> <p>MATERIALS TRACK</p> <ul style="list-style-type: none"> • ELM characterization Shardul Bhusari, Stefan Brück, Zahra Kafrashian, Hanuman Kalari /INM <p>SYNTHETIC BIOLOGY TRACK</p> <ul style="list-style-type: none"> • Implement your synthetic gene network Rosanne Schmachtenberg, Johannes Falkenstein, Anja Armbruster/ Uni Freiburg <p>16:30 INM Tour Mario Quilitz / INM <i>Meeting point: reception INM</i></p>	<p>→Aula of Saarland University (Building A3 3)</p> <p>13:20 MEET THE EXPERTS at the ELM 2022 conference 21.-23.06.2022</p> <p>Further details: www.livingmaterials2022.de</p>
<p><i>18:30 Welcome BBQ</i></p>	<p><i>18:30 Dinner</i></p>	<p>---</p>	<p>---</p>	<p><i>18:30 Poster Session with finger food</i></p>