



SUMMER SCHOOL 2019

– NANOMEDICINE –
F O R M U L A T I O N
C H A R A C T E R I Z A T I O N
T R A N S L A T I O N

- 2 4 . - 2 8 . J U N E •
- H O T E L R H Ö N R E S I D E N C E •
- N E A R F U L D A •

Monday, June 24th 2019

– 13:00	Arrival
13:00 – 14:00	Lunch
 Session I	
14:00 – 14:45	Ulrich S. Schubert , Friedrich Schiller University Jena <i>SFB 1278</i>
14:45 – 15:30	Rudolf Zentel , Johannes Gutenberg University Mainz <i>SFB 1066</i>
15:30 – 16:00	Ilka Paulus , German Research Foundation (DFG) <i>DFG – an overview from CRCs to early career support</i>
16:00 – 16:30	Coffee Break
 Session II	
16:30 – 17:15	Lorenz Meinel , Julius-Maximilians-University Würzburg <i>Site specific conjugation of biologicals</i>
17:15 – 18:00	Tobias Bopp , University Medical Center JGU Mainz <i>From immune evasion to tumor immunity</i>
19:00 –	Dinner

Tuesday, June 25th 2019

Session I

- 9:15 – 10:00 **Kaloian Koynov**, Max Planck Institute for Polymer Research Mainz
Fluorescence correlation spectroscopy studies of nanocarrier-based drug delivery systems
- 10:00 – 10:20 **Natkritta Hüppe**, Project Talk TP A2, SFB 1066, Mainz
Protein-based nanocarriers via click chemistry for targeted drug delivery
- 10:20 – 10:40 **Christiane Höppener**, Project Talk TP B4, SFB 1278, Jena
t.b.a.
- 10:40 – 11:15 **Coffee Break**

Session II

- 11:15 – 12:00 **Volker Mailänder**, University Medical Center JGU Mainz
Nanocarriers, Proteins and Proteomics
- 12:00 – 12:45 **Stephanie Höppener**, Jena Center for Soft Matter
Advanced TEM methods for the characterization of nanoparticles and their intracellular fate
- 12:45 – 13:30 **Matthias Barz**, Johannes Gutenberg University Mainz
Polymeric Nanomedicine: sense and non-sense
- 13:30 – 14:30 **Lunch**

Session III

- 14:30 – 18:00 **Social Event**, City Tour Fulda
- 19:00 – **Dinner**

Wednesday, June 26th 2019

Session I

- 9:15 – 10:00 **Heinrich Haas**, BioNTech AG Mainz
Nanoparticle Based mRNA Delivery: From Lab to Clinics
- 10:00 – 10:45 **Vicent Nebot**, PTS - Polypeptide Therapeutic Solutions, Valencia
GMP Production of Polyaminoacids
- 10:45 – 11:05 **Christine Seidl**, Project Talk TP A6, SFB 1066, Mainz
Polypept(o)ide-based Cylindrical Polymer Brushes as Molecular Vaccine in Tumor Immunotherapy
- 11:05 – 11:35 **Coffee Break**

Session II

- 11:35 – 12:20 **Detlef Schuppan**, University Medical Center JGU Mainz
SiRNA and antisense therapies for liver diseases
- 12:20 – 13:05 **Michael Bauer**, Center for Sepsis Control and Care, University Hospital Jena
Selective targeting of parenchymal and non-parenchymal liver cells – Rational and strategies
- 13:05 – 13:25 **Sophie Huschke**, Friedrich Schiller University Jena
Raman spectroscopic characterization of the linkage- and interaction mechanism of nanocarriers and drugs with hepatic stellate cells
- 13:25 – 14:30 **Lunch**

Session III

- 14:30 – 15:15 **Oliver Werz**, Friedrich Schiller University Jena
Pharmacological targeting of lipid mediators as anti-inflammatory strategy
- 15:15 – 16:00 **Katharina Landfester**, Max Planck Institute for Polymer Research Mainz
Characterization of nanocarriers
- 16:00 – 16:30 **Coffee Break**

Session IV

16:30 – 19:00

Student Workshop

**with Stefan Wulle / Christina Draheim (University Library
Braunschweig)**

*PubPharm - Tools for Pharmacy-Specific Research and Scientific
Publishing*

and David Huesmann (Wiley-VCH, Weinheim)

Successful Publishing in Scientific Journals and Project DEAL

16:30 – 19:00

Joint PI Retreat, SFB 1066 and SFB 1278

19:00 –

Dinner

Thursday, June 27th 2019

Session I

- 9:15 – 10:00 **Felix Schacher**, Friedrich Schiller University Jena
Micellar Engineering - Crosslinking, Cargo-Carrier Interactions and Light-Mediated Release
- 10:00 – 10:20 **Damiano Bandelli**, Project Talk TP A6, SFB 1278, Jena
Maintaining the Hydrophilic–Hydrophobic Balance of Polyesters with Adjustable Crystallinity for Tailor-Made Nanoparticles
- 10:20 – 10:40 **Zoltan Cseresnyes**, Project Talk TP B4, SFB 1278, Jena
Quantifying the distribution of nanoparticle- and micelle-based cargo delivery using image-based systems biology techniques
- 10:40 – 11:00 **Christian Becker**, Project Talk TP B8, SFB 1066, Mainz
Local Tumor Reprogramming by Micelle-mediated Cyclic Nucleotide Repression
- 11:00 – 11:30 **Coffee Break**

Session II

- 11:30 – 12:15 **Christine Weber**, Friedrich Schiller University Jena
Microwave assisted synthesis
- 12:15 – 13:00 **Johannes Brendel**, Friedrich Schiller University Jena
Fibre-like Polymer Nanostructures: How to make them and what to use them for?
- 13:00 – 14:00 **Lunch**

Session III

- 14:00 – 14:20 **Irina Muljajew**, Project Talk TP A1, SFB 1278, Jena
Polyesteramides with tailor-made hydrophilicity
- 14:20 – 14:40 **Adelina Haller**, Project Talk TP B11, SFB 1066, Mainz
The effect of anticoagulant polysaccharids on the biodistribution of nanocarriers
- 14:40 – 15:15 **Poster Elevator Pitch Talks Part I**
3 min short presentations
- 15:15 – 15:45 **Coffee Break**

Session IV

- 15:45 – 16:30 **Poster Elevator Pitch Talks Part II**
3 min short presentations
- 16:30 – 18:30 **Poster Session**
- 19:00 – **Barbecue Dinner**

Friday, June 28th 2019

Session I

- 9:15 – 10:00 **Dagmar Fischer**, Friedrich Schiller University Jena
Preclinical test strategies using the shell less hen's egg test
- 10:00 – 10:45 **Anja Träger**, Friedrich Schiller University Jena
Shielded nanoparticles for transport of nucleic acids
- 10:45 – 11:05 **Henry Lindemann**, Project Talk TP A2, SFB 1278, Jena
Tailored nanoparticles with two-step release pattern: New tool for drug delivery
- 11:05 – 11:35 **Coffee Break**

Session II

- 11:35 – 11:55 **Natascha Drude**, Project Talk Q3, SFB 1066, Mainz
Radiolabeled Nanogels
- 11:55 – 12:15 **Katherine Gonzalez**, Project Talk B2, SFB 1278, Jena
*Prodrug nanoparticles to target conidia of the human-pathogenic fungus *Aspergillus fumigatus* in macrophages*
- 12:15 – 12:30 **Closing Remarks**
- 12:30 – 13:30 **Lunch**
- 14:00 **Departure**