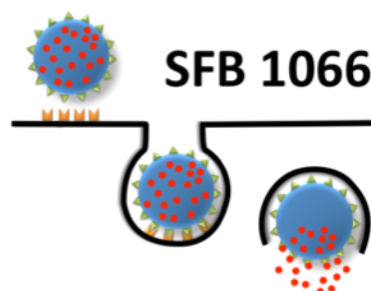


SYMPOSIUM 2016

NANODIMENSIONAL
POLYMERIC THERAPEUTICS FOR
TUMOR IMMUNOTHERAPY

SEPTEMBER 15TH–16TH • MAINZ



CHEMICAL DESIGN —
bioMEDICAL APPLICATIONS

– Schedule –

Staudinger Lecture Hall

Max Planck Institute for Polymer Research

September 15th–16th • Mainz

The Symposium is organized by the CRC 1066
“Nanodimensional polymeric Therapeutics for Tumor Therapy”
& its Integrated Research Training Group

JOHANNES GUTENBERG
UNIVERSITÄT MAINZ



Max-Planck-Institut für Polymerforschung
Max Planck Institute for Polymer Research



UNIVERSITÄTSmedizIN.
MAINZ

DFG Deutsche
Forschungsgemeinschaft

Program

Thursday September 15th 2016

Session I – Chair: Rudolf Zentel & Philipp Heller

- 09⁰⁰ – 09¹⁰ **Opening Remarks**
- 09¹⁰ – 09⁴⁰ **Christoph Alexiou**, University Hospital Erlangen
Investigating immunological features of mitoxantrone-loaded SPIONs for Magnetic Drug Targeting
- 09⁴⁰ – 10¹⁰ **Katharina Landfester**, Max Planck Institute for Polymer Research Mainz
Nanoparticles for specific drug delivery
- 10¹⁰ – 10⁴⁰ **Coffee Break**

Session II – Chair: Detlef Schuppan & Nadine Leber

- 10⁴⁰ – 11²⁵ **Daniel Anderson**, Massachusetts Institute of Technology
Nucleic acid delivery systems for RNA therapy and gene editing
- 11²⁵ – 11⁵⁵ **Ugur Sahin**, University Medical Center JGU Mainz, TRON gGmbH & BioNTech AG
Delivering messages for cancer immunotherapy
- 11⁵⁵ – 12²⁵ **Twan Lammers**, RWTH Aachen University Clinic
Drug targeting to tumors and metastases
- 12²⁵ – 13⁴⁵ **Lunch**
Buffet on the MPI-P premises

Session III – Chair: Ruth Duncan & Antje Ziller

- 13⁴⁵ – 14¹⁵ **Till Opatz**, Johannes Gutenberg University Mainz
Carbohydrates and Carbohydrate-Mimetics for Cell-Targeting
- 14¹⁵ – 14⁴⁵ **Stefaan De Smedt**, Ghent University
Ultrasound triggered mRNA delivery to dendritic cells – towards an in vivo cancer vaccination strategy
- 14⁴⁵ – 15¹⁵ **Matthias Barz**, Johannes Gutenberg University Mainz
Polypept(o)idic Nanomedicines: Reducing Synthetic Complexity, while Enhancing Functionality
- 15¹⁵ – 15⁴⁵ **Coffee Break**

Session IV – Chair: Matthias Barz & Katharina Stockhofe

- 15⁴⁵ – 16¹⁵ **Rudolf Zentel**, Johannes Gutenberg University Mainz
Biodegradable Carriers for Transport of Peptides and Nucleotides
- 16¹⁵ – 16⁴⁵ **Christian Becker** and **Tobias Bopp**, University Medical Center JGU Mainz
Suppression of melanoma growth through nanoparticle-mediated nucleotide cyclase inhibition
- 16⁴⁵ – 17⁰⁰ **Short Break**
- 17⁰⁰ – 19⁰⁰ **Poster Session**
- 19⁰⁰ – **Conference Dinner**
Buffet on the MPI-P premises

Friday September 16th 2016

Session V – Chair: Ruth Duncan & Laura Müller

09⁰⁰ – 09³⁰ **Stephan Grabbe**, University Medical Center JGU Mainz
Protein corona-mediated targeting of nano-carriers to B cells induces humoral immune responses

09³⁰ – 10⁰⁰ **Thomas Tüting**, University of Magdeburg
Preclinical development of combinatorial treatment approaches for melanoma immunotherapy

10⁰⁰ – 10³⁰ **Coffee Break**

Session VI – Chair: Stephan Grabbe & Jonathan Schupp

10³⁰ – 11⁰⁰ **Philipp Beckhove**, Regensburg Center for Interventional Immunology & German Cancer Research Center (dkfz) and National Centre for Tumor Diseases (NCT)
Immunomodulatory pathways in cancer

11⁰⁰ – 11³⁰ **Detlef Schuppan**, University Medical Center JGU Mainz & Harvard Medical School Boston
Therapeutic approaches using siRNA and antisense DNA

11³⁰ – 12⁰⁰ **Claus-Michael Lehr**, Helmholtz Institute for Pharmaceutical Research Saarland & Saarland University
Nanoparticles for overcoming Epithelial and Microbial Barriers

12⁰⁰ **Wiley-VCH Poster Prize – Award ceremony**

12⁰⁵ – 13¹⁵ **Lunch**
Buffet on the MPI-P premises

Session VII – Chair: Katharina Landfester & Dominika Hobernik

13¹⁵ – 13⁴⁵ **Wolfgang Tremel**, Johannes Gutenberg University Mainz
PEI-PEG Copolymer Gated Dendritic Mesoporous Silica Nanoshuttles for Targeting Cancer: Encapsulation of TNF- α

13⁴⁵ – 14¹⁵ **Ernst Wagner**, Ludwig-Maximilians-Universität München & Nanosystems Initiative Munich
Design of Nucleic Acid Nanoparticles for Cancer Therapy

14¹⁵ – 14⁴⁵ **Volker Mailänder**, University Medical Center JGU Mainz
The Protein Corona: From Deciphering the Miracle of PEGylation to Intracellular Trafficking

14⁴⁵ – 15¹⁵ **Coffee Break**

Session VIII – Chair: Volker Mailänder & Claudia Weber

15¹⁵ – 15⁴⁵ **Gerd Ulrich Nienhaus**, Karlsruhe Institute of Technology & University of Illinois
*The Protein Corona on Nanoparticles: Insights from Quantitative Fluorescence
Microscopy*

15⁴⁵ – 16¹⁵ **Kaloian Koynov**, Max Planck Institute for Polymer Research Mainz
*Nanocarrier Based Drug Delivery: What We Can Learn Using Fluorescence
Correlation Spectroscopy*