

- 16.20 **Label-free quantitative proteomic analysis of the nanomaterial-protein corona: Advantages and limitations**
Dr. Stefan Tenzer
UMM - Institute for Immunology, Mainz
- 16.40 **Biodegradable Hydroxyethylstarch Based-Nanocapsules for Specific Targeting**
Prof. Dr. Katharina Landfester
MPI for Polymer Research, Mainz
- 17.15 **The dynamic impact of the NP-serum protein corona for biomedical applications**
Dipl. Biol. Dominic Docter
UMM - Molecular and cellular oncology/Mainz Screening Center
- 17.35 **Discussion, concluding remarks & departure**
- 18.30 **(Speakers) Dinner & get-together**
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Universitätsmedizin
der Johannes Gutenberg-Universität Mainz,
Langenbeckstr. 1, 55131 Mainz

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Universitätsmedizin Mainz
Molecular & Cellular Oncology, Mainz Screening Center

NANOBIOMEDICINE: POTENTIAL, CHALLENGES & RISKS

October 10, 2012

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NANOBIOMEDICINE: POTENTIAL, CHALLENGES & RISKS

Dear colleagues,

nanobiomedicine, i.e. nanotechnology applied to biomedical applications, seeks to improve our mechanistic understanding of (patho)biological regulations in order to achieve earlier and more precise diagnosis (the sooner, the better the treatment), improved targeted therapies (less side effects), and better therapy monitoring (faster recovery). Thus, nanobiomedicine is expected to enable the next level in delivering new drugs, treatments and implantable devices to researchers, clinicians and patients. As nanobiomedicine is clearly an interdisciplinary research area with no sharp boundaries, the meeting addresses researchers from different scientific areas medicine, physics, chemistry, pharmacology and biology, sharing an interest in this exciting field. In order to improve our understanding of the 'nano-biomedical interface', we would cordially invite you to attend our symposium to discuss recent progress in the field and stimulate collaborative efforts. Hence, we would appreciate to welcoming you on this occasion at the Medical University in Mainz!

With best regards

Roland Stauber, Dominic Docter, Verena Fetz

Scientific program

- 09.15** **Opening and welcome**
Prof. Dr. Roland Stauber
UMM - Molecular and cellular
oncology/Mainz Screening Center
- 09.15** **Targeted-Nanoparticles for
Enhancer Radiotherapy and Oral
Drug-Administration**
PD Dr. Thomas Nawroth
Johannes Gutenberg-University Mainz,
Pharmacy and Biochemistry Institute
- 9.50** **Toxicological characterization of
nanomaterials for diagnostic
imaging in medicine- NanoMed**
Prof. Dr. Dagmar Fischer
Institut für Pharmazie,
Friedrich-Schiller-Universität Jena
-
- 10.25** **Coffee Break**
-
- 10.50** **The impact of solubility during
pharmaceutical research and
development**
Dr. Christoph Saal
Merck KGaA, Darmstadt
- 11.25** **Nanoparticle-based approaches for
drug delivery**
Prof. Dr. Marc Schneider
Juniorprofessor for Pharmaceutical
Nanotechnology, Saarland University,
Saarbrücken

- 12.15** **Enzyme-mimetic coupled
nanoparticles**
Prof. Dr. Wolfgang Tremel
Institut für Anorganische Chemie und
Analytische Chemie, Johannes
Gutenberg-Universität Mainz

12.55 Lunch & Discussion

- 13.35** **Towards therapeutic applications
of superparamagnetic
nanoparticles**
Prof. Dr. Thomas Simmet
Institute of Pharmacology of Natural
Products & Clinical Pharmacology, Ulm
University

- 14.10** **Characterization of
Protein-NP-Interactions under
Physiological Conditions via
Field-Flow Fractionation**
Prof. Dr. Michael Maskos
Institut für Mikrotechnik Mainz GmbH,
Mainz

- 14.45** **Potential applications of colloidal
nanoparticles in NanoBioMedicine**
Prof. Dr. Wolfgang Parak
Universität Duisburg-Essen

- 15.20** **Inbetween nanotoxicology and
nanobiomedicine: What matters?**
Prof. Dr. Jürgen Schneckeburger
University of Münster

15.55 Coffee Break
