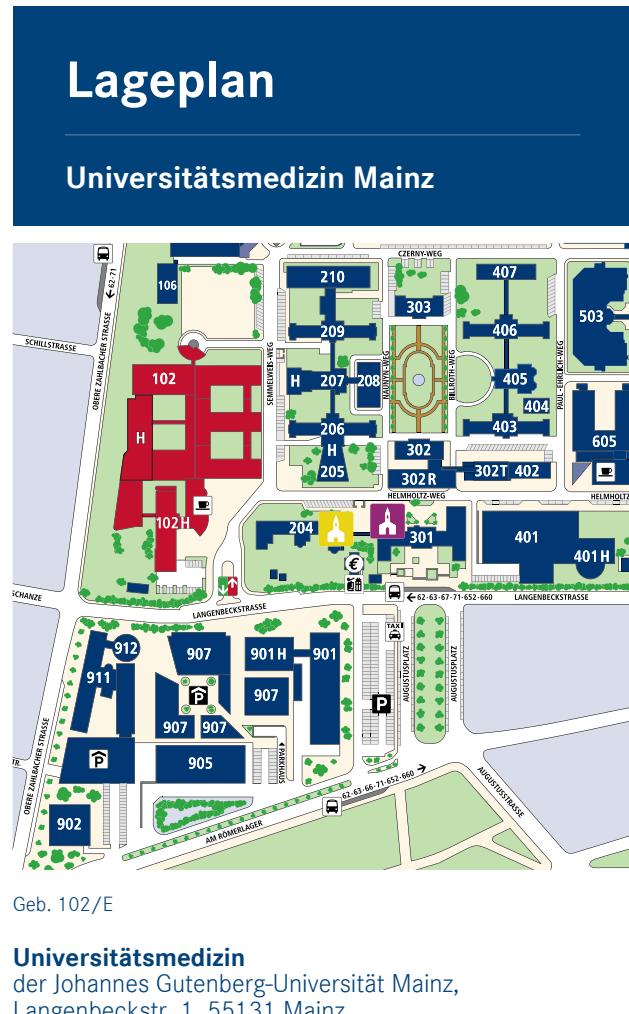


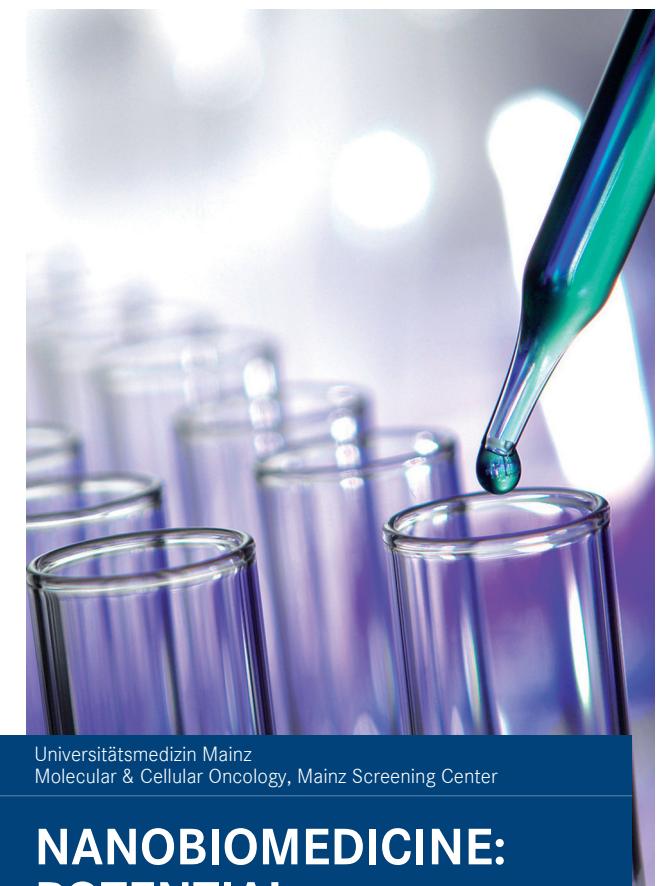
- 16.20** Label-free quantitative proteomic analysis of the nanomaterial-protein corona: Advantages and limitations  
Dr. Stefan Tenzer  
UMM - Institute for Immunology, Mainz
- 16.40** Biodegradable Hydroxyethylstarch Based-Nanocapsules for Specific Targeting  
Prof. Dr. Katharina Landfester  
MPI for 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  
<http://www.kupferbergterrasse.com/>



Biological Responses  
to Nanoscale Particles  
SPP1313



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## 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	<b>Opening and welcome</b> Prof. Dr. Roland Stauber UMM - Molecular and cellular oncology/Mainz Screening Center	12.15	<b>Enzyme-mimetica coupled nanoparticles</b> Prof. Dr. Wolfgang Tremel Institut für Anorganische Chemie und Analytische Chemie, Johannes Gutenberg-Universität Mainz
09.15	<b>Targeted-Nanoparticles for Enhancer Radiotherapy and Oral Drug-Administration</b> PD Dr. Thomas Nawroth Johannes Gutenberg-University Mainz, Pharmacy and Biochemistry Institute	12.55	<b>Lunch &amp; Discussion</b>
9.50	<b>Toxicological characterization of nanomaterials for diagnostic imaging in medicine- NanoMed</b> Prof. Dr. Dagmar Fischer Institut für Pharmazie, Friedrich-Schiller-Universität Jena	13.35	<b>Towards therapeutic applications of superparamagnetic nanoparticles</b> Prof. Dr. Thomas Simmet Institute of Pharmacology of Natural Products & Clinical Pharmacology, Ulm University
10.25	<b>Coffee Break</b>	14.10	<b>Characterization of Protein-NP-Interactions under Physiological Conditions via Field-Flow Fractionation</b> Prof. Dr. Michael Maskos Institut für Mikrotechnik Mainz GmbH, Mainz
10.50	<b>The impact of solubility during pharmaceutical research and development</b> Dr. Christoph Saal Merck KGaA, Darmstadt	14.45	<b>Potential applications of colloidal nanoparticles in NanoBioMedicine</b> Prof. Dr. Wolfgang Parak Universität Duisburg-Essen
11.25	<b>Nanoparticle-based approaches for drug delivery</b> Prof. Dr. Marc Schneider Juniorprofessor for Pharmaceutical Nanotechnology, Saarland University, Saarbrücken	15.20	<b>Inbetween nanotoxicology and nanobiomedicine: What matters?</b> Prof. Dr. Jürgen Schnekenburger University of Münster
		15.55	<b>Coffee Break</b>