

# Targeted nanosystems for imaging and therapy

Spring workshop, Tartu (Estonia), May 10-12, 2017



## Scope:

This workshop provides an opportunity to get an overview of translational nanobiomedicine research from the leading European experts. The overarching themes are interactions of nanoparticles with biological systems, applications of precision-guided nanosystems for imaging and more efficient therapies, and the relationship of nanotechnology with personalized medicine.

## Program

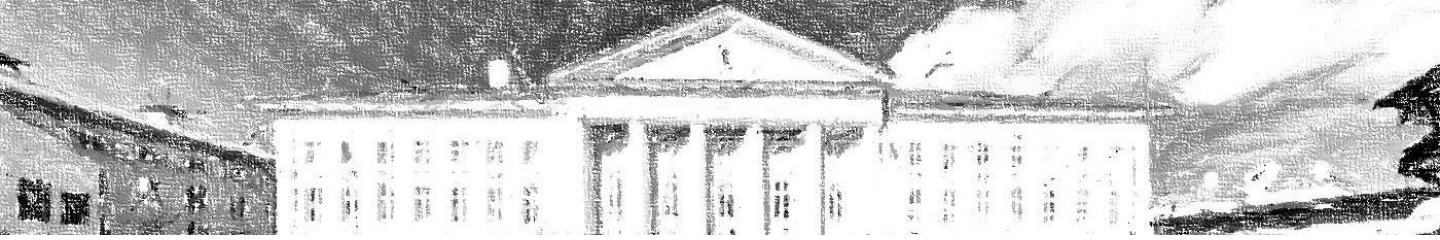
Wednesday, May 10

- 16:00 Welcome and introduction  
Tambet Teesalu and Lorena Simón Gracia (University of Tartu, Estonia)
- 16:15 **Vascular address system for nanoparticle delivery: exploration and applications**  
Tambet Teesalu (University of Tartu, Estonia)

17:00 Wine and Cheese Reception

Thursday, May 11

- 8:15 **Somanautics: how to get from A to B in a living organism**  
Giuseppe Battaglia (University College London, UK)
- 9:00 **Image-guided drug delivery, theranostics and personalized nanomedicine**  
Twan Lammers (University of Aachen, Germany)
- 9:45 **Weighing risks and benefits of nanotechnologies.**  
Angela Ivask (National Institute of Chemical Physics and Biophysics, Estonia)
- 10:30 Coffee and refreshments



11:00 **Targeted nanomedicines for cancer, diabetes and cardiovascular diseases: from concept to application**

Hélder A. Santos (University of Helsinki, Finland)

11:45 **Affinity-guided polymersomes for treating and imaging cancer**

Lorena Simón Gracia (University of Tartu, Estonia)

12:30 Lunch

13:30 **Applications of nanoparticles for molecular imaging**

Twan Lammers (University of Aachen, Germany)

14:15 **Biological fate, aggregation, and degradation of nanomaterials: impact on nanomedicine**

Sergio Moya (CIC-BiomaGUNE, Spain)

15:00 Coffee and refreshments

15:30 **New peptides to target protumoral macrophages, brain injuries, and Alzheimer's disease**

Pablo Scodeller (University of Tartu, Estonia)

16:15 **Molecular Bionics: copying life at the nanoscale**

Giuseppe Battaglia (University College London, UK)

18:00 Dinner at Ugandi Restaurant, Otepää (transfer buses)

Friday, May 12

8:15 **Tumor targeting with extracellular matrix binding peptides**

Prakash Lingasamy (University of Tartu, Estonia)

8:45 **Silver nanocarriers as a model cargo and therapeutic payload for tumor targeting**

Allan Tobi (University of Tartu, Estonia)

9:15 **Peritoneal cancer targeting with T1 peptide**

Hedi Hunt (University of Tartu, Estonia)

## Venue

Accommodation and conferences: **V-Spa Hotel and Conference Center**  
Riia 2, 51004 Tartu, Estonia  
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## Organizers

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**Free registration at** <http://registration.amarela.ee/spring-workshop/>

