

## NANOMATERIALS IN BIOMEDICAL SCIENCES

19-20 SEPTEMBER 2017, PAC 'HET ZUID', WOODROW WILSONPLEIN 2, 9000 GHENT, BELGIUM

TUESDAY	19 SEPTEMBER, 2017
08:15-08:45	Registration & coffee
08:45-09:00	Welcome Stefaan De Smedt (Ghent University, Belgium)
09:00-09:45	Opening lecture: introduction to nanomaterials in biomedical sciences  Jackie Y. Ying (Institute of Bioengineering and Nanotechnology, Signapore)
	Session 1: Interactions of nanomaterials in the extracellular environment
09:45-10:15	Fundamentals on protein corona formation  Roland Stauber (Universitätsmedizin Mainz, Germany)
10.15-10.45	Coffee
10.45-11.15	Avoiding protein corona formation: a critical note on the PEGylation of nanomaterials <b>Shaoyi Jiang</b> (University of Washington, USA)
11.15-11.45	Aggregation and de-assembling of nanomaterials in extracellular fluids <b>Kevin Braeckmans</b> (Ghent University, Belgium)
11.45-12.15	Bullet presentations by young investigators
12.15-13.15	Lunch (with poster session)
	Session 2: Cellular interactions of nanomaterials
13.15-13.45	Nanomaterials overcoming cell membranes  Arwyn Jones (Cardiff University, UK)
13.45-14.15	Insights on the intracellular fate of nanomaterials  Anna Salvati (Rijksuniversiteit Groningen, The Netherlands)
	Session 3: Immunological and toxicological effects of nanomaterials
14.15-14.45	(A)specific immunological reactions of nanomaterials  Diana Boraschi (Istituto Biochimica Proteine, Italy)
14.45-15.15	Coffee
15.15-15.45	(Intra)cellular toxicity of nanomaterials Stefaan Soenen (KULeuven, Belgium)
	Session 4: The regulatory landscape of clinically evaluated nanomaterials
15.45-16.15	Regulatory aspects of nanomaterials <b>Robert Geertsma</b> (RIVM National Institute for Public Health and the Environment, The Netherlands
16.15-16.45	Bullet presentations by young investigators
16.45-17.45	Reception (with poster session)



## WEDNESDAY 20 SEPTEMBER 2017

08.30-09.00	Coffee
	Session 5: Nanomaterials for the advanced delivery of drugs
09.00-09.30	Focusing on drug delivery in cancer treatment  Patrick Couvreur (Université Paris-Sud; France)
09.30-10.00	Focusing on drug delivery in non-cancer treatment  Samir Mitragotri (University of California, USA)
10.00-10.30	Coffee
	Session 6: Nanomaterials as contrast agents in imaging
10.30-11.00	Focusing on pre-clinical imaging  Jeff Bulte (John Hopkins University School of Medicin, USA)
11.00-11.30	Focusing on clinical imaging  Fabian Kiessling (University Hospital Aachen, Germany)
11.30-12.00	Bullet presentations by young investigators
12.00-13.00	Lunch (with poster session)
	Session 7: Nanomaterials in diagnosis
13.00-13.30	In vitro diagnosis: nanomaterials and lab-on-a-chip, microfluidics, To be announced
13.30-14.00	Extracellular vesicles in diagnosis Inge Mertens (VITO, Belgium)
	Session 8: Nanomaterials in theragnosis
14.00-14.30	Potential of nanomaterials in theragnosis  Sehoon Kim (Korea Institute of Science and Technology, South Korea)
14.30-15.00	Coffee
15.00-16.00	Closing lecture: A critical note on how to proceed with nanomaterials in the biomedical field <b>David Grainger</b> (University of Utah, USA)
16.00-16.30	Closing remarks & awards