



Radboudumc



Sint Maartenskliniek

TU/e

SensUs

## Upcoming technologies for Clinical Immunology: New medicines, sensing & biomarkers

A postgraduate training for medical professionals, Friday 30th of August

Organizing committee:

Dr. Bart van den Bemt, Outpatient Pharmacist, St. Maartenskliniek & Radboudumc  
Prof. Mart van de Laar, Rheumatologist, Medisch Spectrum Twente & Univ. Twente  
Prof. Menno Prins, Eindhoven University of Technology

Date Friday 30th of August 2019

Time 12:30-18:00

Location Eindhoven University of Technology, Atlas building

Accreditation has been requested (5 ½ hours):

NVR (Ned. Ver. v. Reumatologie)

MDL (Ned. Ver. v. Maag-Darm-Leverartsen)

NVZA (Ned. Ver. v. Ziekenhuisapothekers)

KNMP (Kon. Ned. Maatsch. ter bevord. der Pharmacie)



# SensUs

The program contains lectures on upcoming technologies for clinical immunology, in the fields of therapy, monitoring, and clinical data. The lectures will be followed by a discussion on the translation to the clinic and impact on patients. The discussion will be moderated by the organizing committee.

The course is co-located with the international SensUs competition, with theme “Managing rheumatic disease by measuring with ease” (see [www.sensus.org](http://www.sensus.org)).

## PROGRAM

- 12:30 Opening professional course  
Prof.dr. Mart van de Laar & Dr. Bart van den Bemt
- 12:45 Managing rheumatic disease by measuring with ease  
Meetings with the SensUs teams, incl. lunch
- 13:30 Nanoparticles: new immunological medicines  
Prof. Willem Mulder & Dr. Roy van der Meel (Eindhoven Univ. of Techn.)
- 14:45 Sensor technology for continuous immuno-monitoring  
Dr. Khulan Sergelen (Eindhoven Univ. of Techn.)
- 15:30 Biomarkers & big data for clinical immunology  
Dr. Johannes Textor (Radboudumc, Nijmegen)
- 16:15 SensUs Keynote speaker (to be announced)
- 17:30 Discussion: Translation to the clinic, how and when  
Prof.dr. Mart van de Laar & Dr. Bart van den Bemt
- 18:00 Closure

[Register here now](#)

Registration can be done via the link.  
The costs of the postgraduate training are 50 euros.

For more information, please send an email to: [pr@sensus.org](mailto:pr@sensus.org)



# SensUs

## “GET A GLIMPSE OF THE FUTURE OF HEALTH-CARE”

### BRIEF INTRODUCTION OF THE SPEAKERS

#### Nanoparticles: new immunological medicines

Willem Mulder and Roy van der Meel are professor and assistant professor of Precision Medicine at the department of Biomedical Engineering of Eindhoven University of Technology. Their research focuses on precision imaging and targeted therapy. They have established a library encompassing nanomaterials derived from natural lipoproteins, which allows meticulously designing nano-immunotherapies. The overarching goal is to institutionalize nanotechnologies for precision immunotherapy and immuno-imaging.

[\[read more\]](#)

#### Sensor technology for continuous immuno-monitoring

Healthcare is in demand of technologies for real-time sensing in order to continuously guard the state of patients. Eindhoven University of Technology is developing novel technologies for the continuous monitoring of biomarkers, such as small molecules, proteins, and nucleic acids. Dr. Sergelen will give an overview of the field of continuous monitoring and focus on upcoming solutions to enable the monitoring of patients receiving immuno-therapies.

[\[read more\]](#)

#### Biomarkers & big data for clinical immunology

Johannes Textor leads the Computational Immunology group at the department of Tumor Immunology at the Radboud Institute of Molecular Life Sciences. The group develops and applies computational models and statistical methods for biomedical research. Both Computational Immunology and Artificial Immune Systems are the main fields of his expertise. He applies tools and methods of math and computer science to immunological questions. An example is the model that was built around the immune systems cell repertoires that process and store information.

[\[read more\]](#)