

PROGRAM | THURSDAY 24 MAY

- 08:45 - 09:15 Registration & coffee
- 09:15 - 09:20 Welcome by Nico Callewaert

Plenary session 1

Hall: Aula

DIAGNOSTICS & BIOMARKERS

Chair: Kris Gevaert

- 09:20 - 10:10
keynote Managing health and disease using big data
Michael Snyder, *Center for Genomics and Personalized Medicine, Stanford University, US*
- 10:10 - 10:45 Novel technologies for the detection of clinically relevant DNA alterations in circulating DNA
Mike Makrigiorgos, *Medical Physics & Biophysics, Radiation Oncology, Dana Farber Cancer Institute, Harvard Medical School, US*
- 10:45 - 11:15 Coffee break
- 11:15 - 11:50 Point of care diagnostics in tuberculosis and leprosy
Annemieke Geluk, *LUMC Leiden, NL*
- 11:50 - 12:25 Isolation and characterization of extracellular vesicles in liquid biopsies
An Hendrix, *Ghent University, BE*
- 12:25 - 12:40 Selected talk: Circulating human cytomegalovirus endogenous microRNA detection by microgel-based assay
Tania Mariastella Caputo, *Istituto Italiano di Tecnologia, IT*
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- 12:40 - 13:30 Lunch
- 13:30 - 14:30 Poster session

Plenary session 2

Hall: Aula

TARGETED DELIVERY

Chair: Erik Depla

- 14:30 - 15:05 AcTakinex: a novel class of cancer immunotherapeutics
Jan Tavernier, *VIB-UGent Center for Medical Biotechnology, BE*
- 15:05 - 15:40 Inhalation of antibody (Ab) to treat respiratory diseases (RD)
Nathalie Heuzé Vourc'h, *INSERM U1100, Research Centre of Respiratory Diseases, Tours, FR*
- 15:40 - 15:55 Selected talk: Therapeutic applicability of TNF receptor-1 inhibition using small single-domain antibodies
Sophie Steeland, *VIB Center for Inflammation Research, BE*
- 15:55 - 16:25 Coffee break
- 16:25 - 17:00 Addressing central nervous system target space using single-domain antibody technologies
Danica Stanimirovic, *National Research Council, CA*
- 17:00 - 17:35 Engineering brain delivery of therapeutics for neurodegeneration
Ryan Watts, *Denali Therapeutics, US*
- 17:35 - 18:10 Development of oncolytic virus vaccine technology for the treatment of cancer
John Bell, *Centre for Innovative Cancer Research, Ottawa Hospital Research Institute, CA*
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- 18:10 - 19:00 Reception
- 20:00 Conference dinner

08:45 - 09:15 Coffee

Plenary session 3

Hall: Aula

BIOPHARMACEUTICAL TECHNOLOGY

Chair: Nico Callewaert

- 09:15 - 10:05** CAR T cells: targeting the sweet tooth
keynote **Carl June**, *Perelman School of Medicine, UPenn, US*
- 10:05 - 10:40** Exploiting innate immune cell recognition for CAR T cell therapy for cancer
David Gilham, *Celyad S.A., BE*
- 10:40 - 11:10** Coffee break
- 11:10 - 11:45** Nanobodies – A versatile advanced therapeutic platform
Heidi Rommelaere, *Ablynx, BE*
- 11:45 - 12:20** The evolution of RNA-based cancer vaccines
Mustafa Diken, *TRON - Translational Oncology at the University Medical Center of the Johannes Gutenberg University Mainz, DE*
- 12:20 - 12:35** Selected talk: Engineering the immune system with synthetic nanomaterials
Bruno De Geest, *Ghent University, BE*
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- 12:35 - 13:30** Lunch
- 13:30 - 14:30** Poster session

Plenary session 4

Hall: Aula

VACCINES

Chair: Xavier Saelens

- 14:30 - 15:05** Engineering native-like HIV-1 envelope trimers to induce neutralizing antibodies
Rogier Sanders, *Academic Medical Center of the University of Amsterdam, NL & Weill Medical College of Cornell University, US*
- 15:05 - 15:40** A hemagglutinin stalk-based universal influenza virus vaccine
Florian Krammer, *Department of Microbiology, Icahn School of Medicine at Mount Sinai, New York, NY, US*
- 15:40 - 15:55** Selected talk: Spy and Snoop protein superglues to accelerate vaccine development
Mark Howarth, *University of Oxford, UK*
- 15:55 - 16:25** Coffee break
- 16:25 - 17:00** Development of vaccines to accelerate malaria parasite elimination and eradication
Ashley Birkett, *PATH's Malaria Vaccine Initiative (MVI), US*
- 17:00 - 17:50** Development of trispecific antibodies for aids and cancer
keynote **Gary Nabel**, *Sanofi Global R&D, US*
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- 17:50 - 18:00** Closing remarks by Kris Gevaert