

New Frontiers in Regenerative Medicine

THURSDAY 16TH OCTOBER 2014

08:00 - 08:45 Registration, Coffee & Tea

08:45 - 09:00 Opening Symposium: Paul Smits, Dean / vice-chairman Radboud University Medical Centre

Keynote lecture 1

Chair: John Jansen

09:00 - 10:00 Robert Langer (Massachusetts Institute of Technology, USA)

Novel drug delivery systems, tissue engineering and technology transfer

Session 1: Emerging biomaterials

Chair: John Jansen

10:00 - 10:35 Samuel Stupp (Northwestern University, USA)

Regenerative medicine with supramolecular materials

Coffee / Tea Break

11:05 - 11:35 Achim Goepferich (University of Regensburg, DE)

Nanoscale materials for drug delivery to the eye

11:35 – 12:10 Ali Khademhosseini (Massachusetts Institute of Technology, USA)

Engineering hydrogels for tissue regeneration

12:10 - 12:45 Phillip B. Messersmith (Northwestern University, USA)

Tissue regeneration by delivery of a HIF1 α agonist from an injectable hydrogel biomaterial

12:45 – 12:50 New Frontiers Sponsor: IME Technologies

Lunch & poster session

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Session 2: Tissue regeneration

Chair: Willeke Daamen

14:30 - 15:05 Clemens van Blitterswijk (Maastricht University, NL)
Moulding cells in high throughput at micro, meso, and macro scale for improved tissue (re)generation

15:05 - 15:40 James Kirkpatrick (Johannes Gutenberg University, DE)
Targeting the vasculature in regenerative medicine

15:40 – 15:45 New Frontiers Sponsor: Biospherix

Coffee / Tea Break

Chair: Sander Leeuwenburgh

16:15 - 16:50 Frank Luyten (KU Leuven, BE)
Regenerative medicine & tissue engineering: clinical translation of cell based products

16:50 - 17:25 Jeffrey Hubbell (*Institute for Bioengineering, Switzerland* & University of Chicago, USA)
Engineering interactions between morphogens and the extracellular matrix

17:50 Coaches depart for Landmark Wijnfort, Lent

18:15 - 23:00 Dinner at Landmark Wijnfort Lent

23:15 Coaches depart back to Nijmegen centre

FRIDAY 17TH OCTOBER 2014

08:00 - 09:00 Registration, Coffee & Tea

Session 3: Stem cell biology

Chair: Roos Masereeuw

09:00 - 09:35 Gernot Walko (King's College London, UK)
Examining the interactions between epidermal stem cells and their niche

09:35 - 10:10 Molly Stevens (Imperial College London, UK)
Exploring and engineering the cell-material interface

10:10 - 10:45 Henk Stunnenberg (Radboud University, NL)
Epigenetics: a manual for genome function and utilization

Coffee / Tea Break

Session 4: Clinical application

Chair: Wout Feitz

11:15 - 11:50 Teruo Okano (Tokyo Women's Medical University, JP)
Cell sheet engineering, clinical applications

11:50 - 12:25 James J. Yoo (Wake Forest Institute for Regenerative Medicine, USA)
Approaches to building complex tissues for clinical translation

Lunch & poster session

14:00 - 14:35 Evert van Leeuwen (Radboud University Medical Center, NL)
Ethics and stem cells: crossing the border of drug-centered research ethics

Keynote lecture 2

Chair: Wout Feitz

14:35 - 15:35 Christine Mummery (Leiden University Medical Centre, NL)
Derivatives of human pluripotent stem cells: the new patient?

Hans Bloemendal Medal & Poster Prizes

Chair: René Bindels

15:35 - 15:45 Hans Bloemendal Medal for Outstanding Scientific Achievement

15:45 - 15:55 Poster Prizes

15:55 - 16:00 Closing words