

Program 7th Sanquin Spring Seminar, 5 April 2019

Innovative cellular approaches for transfusion medicine

- 9:00 Registration, coffee/tea
9:25 Welcome René van Lier (Director Sanquin Research)

Session I - Red blood cells

- 9:30 Matthew Porteus (Stanford University School of Medicine, USA)
Genome editing in human pluripotent stem cells
10:15 Selected oral presentations
10:45 *Break*
11:15 Selected oral presentations
11:45 Ash Toye (University of Bristol, United Kingdom)
Enhancement of red blood cell transfusion compatibility using CRISPR-mediated erythroblast gene editing
12:15 *Lunch*

Session II – Platelets

- 13:15 Kathleen Freson (Catholic University Leuven, Belgium)
High Throughput Sequencing for diagnosing platelet disorders
13:45 Selected oral presentations
14:30 Cedric Ghevaert (University of Cambridge, United Kingdom)
Differentiation of human pluripotent stem cells to megakaryocytes by forward programming
15:00 *Break*

Session III - Stem cells

- 15:30 Gerald de Haan (University of Groningen, The Netherlands)
Hematopoietic stem cell aging
16:00 Selected oral presentations
16:30 Paul Frenette (Albert Einstein College of Medicine, New York, USA)
Niches for hematopoietic stem cells and their progeny
17:15 *Drinks and snacks*

