Program IMM 2015
LUMC Leiden - Lecture hall 5

Thursday June 11, 2015

09.00	Registration & welcome with coffee	
09.55-10.00	**Opening** *Sjef Verbeek*	5′
10.00-12.15	**Session 1: CRISPR/Cas9 genome engineering I** *Chair: Sjef Verbeek*	
10.00	**Shengdar Tsai** (Joung lab, Mass Gen Hospital, Charlestown, USA) *Defining and improving the specificity of the CRISPR/Cas9 nuclease platform*	45′
10.45	**Kosuke Yusa** (Wellcome Trust Sanger Institute, Hinxton, UK) *Genome-wide recessive genetic screening with a lentiviral CRISPR-guide RNA library*	45′
11.30	R Kühn (Max Delbrueck Center, Berlin, Germany) *Using traffic light-reporter cells and mice to analyse CRISPR/Cas9 -induced double-strand break-repair by HDR or NHEJ*	15′
11.45	M Pendas (Centro de Investigacion del Cancer, Salamanca, Esp) *Functional analysis of cohesin STAG2 by in vivo electroporation of mouse testis with CRISPR/CAS9 system*	15′
12.00	BJ Davies (University of Oxford, Oxford, United Kingdom) *Efficient CRISPR/Cas9 genome engineering using zygotes and embryos derived from Cas9 overexpressing transgenic mice*	15′
12.15-14.00	**Lunch + exhibition**	
14.00-15.30	**Session 2: Imaging** *Chair: Jos Jonkers*	
14.00	**Peter Friedl** (University of Texas, Houston, USA) *Multi-scale intravital microscopy of the tumor-stroma interface and progression*	45′
14.45	**Jacco van Rheenen** (Hubrecht Institute, Utrecht, NL) *Intravital imaging of cancer plasticity at subcellular resolution*	45′
15.30-16.00	**Coffee/tea Break + exhibition**	
16.00-16.45	**Session 3: Imaging continued** *Chair: Paul Krimpenfort*	
16.00	S Warming (Genentech, Inc., South San Francisco, USA) *Kaleida: a new and versatile Cre-inducible multi-color lineage tracing allele*	15′
16.15	NK Kruse (Helmholtz Centre Infection Res, Braunschweig, Ger) *Epigenetic roadblocks towards an tetracycline inducible mouse model*	15′
16.30	D Stevenson (Beatson Institute for Cancer Res, Glasgow, UK) *A transgenic mouse model expressing an inducible E-Cadherin-EGFP fusion protein from the wt locus*	15′
16.45-17.30	**Session 4: Humanized models** *Chair: Paul Krimpenfort*	
16.45	**Julien Villaudy** (Spits lab, AIMM Therapeutics, Amsterdam, NL) *Humanized immune system (HIS) mice as powerful preclinical in vivo models*	45′
17.30	**Drinks and snacks** **Dinner at Restaurant Luxor in Leiden** **(Stationsweg 19; tel. +31 (0)71 - 514 9491)**	

Friday June 12, 2015

09.00-10.30	**Session 5: CRISPR/Cas9 genome engineering II** *Chair: Els Robanus Maandag*	
09.00	**Matthias Heidenreich** (Zhang lab, Broad Institute, Cambridge, USA) *RNA-guided genome engineering: new expansion of the Cas9 toolbox and in vivo applications*	45′
09.45	**Francis Stewart** (Technical University, Dresden, Germany) *Combining CRISPR/Cas9 with recombineering*	45′
10.30-11.00	**Coffee Break + exhibition**	
11.00-12.15	**Session 6: CRISPR/Cas9 applications** *Chair: Hein te Riele*	
11.00	**Marc van de Wetering** (Clevers lab, Hubrecht Laboratory, Utrecht, NL) *Organoid models*	45′
11.45	D Seruggia (CNB-CSIC, Madrid, Spain) *Interrogating the non-coding mouse genome using CRISPR-Cas9*	15′
12.00	SJ Erkeland (Erasmus MC, Rotterdam, NL) *Interstrand cross-link induced miR139-3p and miR199a-3p have opposite roles in hematopoietic cell-expansion and leukemic transformation*	15′
12.15-13.15	**Lunch + exhibition**	
13.15-14.45	**Session 7: Transgenic animal facilities** *Chair: Marian van Roon*	
13.15	**Toru Takeo** (Kumamoto University, Kumamoto, Japan) *Improving the efficiency of mouse reproductive technology for connecting the world*	45′
14.00	**Ivo Huijbers** (Netherlands Cancer Inst., Amsterdam, NL) *Implementation of improved stem cell culture and new genome engineering technologies in a trangenesis core facility*	45′
14.45-15.15	**Coffee/tea Break + exhibition**	
15.15-16.15	**Session 8: Applications/models** *Chair: Werner Müller*	
15.15	**Niels Geijsen** (Hubrecht Institute, Utrecht, The Netherlands) *Efficient intracellular delivery of native proteins*	30′
15.45	LT Teboul (MRC Harwell, Didcot, United Kingdom) *Engineering the mouse genome using CRISPR/Cas9*	15′
16.00	SA Annunziato (NKI-AVL, Amsterdam, Netherlands) *Rapid testing of candidate recessive factors in ILC by CRISPR-mediated in vivo gene editing*	15′
16.15-16.45	**Forum discussion: the impact of CRISPR/Cas9 technology** *Moderators: Hein te Riele and Werner Müller*	30′
16.45	**Closing remarks** *Sjef Verbeek*	5′