

High Throughput Cell Biology: from screening to applications

Institut Curie – 12, rue Lhomond 75005 - Burg amphitheater

Wednesday 28th November 2012

Session chaired by Elaine Del Nery and Jacques Camonis

- 13h00 -13h25 *Welcome of the participants*
- 13h30-13h45 **Introduction** by Prof. Daniel Louvard
Curie Institute Research Center director
- 13h45-14h35 **Keynote lecture** by Nir Hacohen (Broad Institute, MIT, Boston)
"Findings genes and networks of the immune system"
- 14h45 - 15h10 Thouis Jones (Harvard University, Boston)
"Normalization Techniques in Plate-based Screens"
- 15h15 - 15h40 Emmanuelle Soleilhac (CEA, Grenoble)
"Cell-based assays for HCS and Drug Discovery"
- 15h45 -16h15 *Coffee break at the Green café and Chez Marie*
- 16h15 - 16h40 Xavier Gidrol (CEA, Grenoble)
"Cell-based microsystems for high-content screening in oncology"
- 16h45 - 17h10 Yolanda Chong (Johnson & Johnson, Belgium)
"Surveying the yeast proteome using high-content screening"
- 17h15 to 17h40 Victor Racine (Fluofarma, Bordeaux)
"A key success factor in high content screening experiments"
- 17h45 - 18h35 **Keynote lecture** by Sharon Tooze (Cancer Research UK, London)
"siGenome screen for novel regulators of mammalian autophagy"
- 18h45 - 19h30 *Cocktail at the Green café and Chez Marie*
- 20h00 - 22h00 *Invited speakers' diner*

Thursday 29th November 2012

Session chaired by Philippe Benaroch and Franck Perez

- 8h30 to 8h55 *Participants breakfast at the Green café and Chez Marie*
- 9h00 to 9h50 **Keynote lecture** by Benny Geiger (Weizmann Institute, Israel)
"High-definition functional proteomic characterization of the integrin adhesome"
- 10h00 to 10h25 Peter Horvath (ETH, Zurich)
"Incorporation of human knowledge into high-content analysis: image processing, machine learning, regression models"
- 10h30 to 10h55 Sandrine Baghdoyan (I-STEM, Evry)
"High Content Screening in Pluripotent Stem Cells"
- 11h00 to 11h25 *Coffee break at the Green café and Chez Marie*
- 11h30 to 11h45 **Technical Talk** by Luc Selig (Collectis bioresearch, France)
"TALEN(tm): the next generation gene editing nucleases for live cell imaging and endogenous gene tagging."
- 11h50 to 12h15 Philippe Masson (IVENTIVA, France)
"Phenotypic screening in Pharma industry: a case study"
- 12h25 to 13h15 Rafael Edgardo Carazo Salas (University of Cambridge, UK)
"Reconstructing the molecular networks that regulate cell morphogenesis, using microscopy-based functional genomics approaches"
- 13h20 to 14h15 *Lunch time at the Green café and Chez Marie*
- 14h15 to 14h25 **Technical Talk** by Ana DINARINA (Thermo Fisher Scientific, USA)
"Optimized experimental parameters for robust technical and biological reproducibility in pooled lentiviral shRNA screens"
- 14h30 to 15h20 **Keynote lecture** by Marino Zerial (Max Planck Institute, Germany)
"Multi-parametric image analysis for systems biology"
- 15h25 to 16h25 **Round Table**