

# SCIENTIFIC PROGRAM

Wednesday, April 6th

**8:30 - 10:00** Registration

**10:00** Opening remarks

**10:15-12:30** Session 1: Stem cell properties and potential I

CHAIRPERSON: **Shahragim Tajbakhsh**

**10:15** - **Austin Smith** - The Design of Naïve Pluripotency

**10:40** - **Christine Mummery**: Cardiac Derivatives of Human Pluripotent Stem Cells in Drug Discovery and Disease

**11:05** - **Maria-Elena Torres-Padilla**: Allelic regulation of pluripotency genes at the chromosomal level drives ground state pluripotency

**11:20** - **Juergen Knoblich**: Asymmetric cell division and tumorigenesis in neural stem cell lineages

**11:55** - **Shin'ichi Nishikawa**: Development of hematopoietic stem cell explained

**12:30-14:15** *Lunch and Poster session I - odd numbers first half; even numbers second half*

**14:15-16:00** Session 2: Stem cell properties and potential II

CHAIRPERSON: **Philip Avner**

**14:15** - **Alfonso Martinez-Arias**: Wnt signalling and the pluripotency network

**14:40** - **Frédéric Relaix**: Molecular mechanisms coordinating myogenesis and cell cycle regulation during development

**14:55** - **Paolo Bianco**: Microvascular niches of skeletal, non skeletal and hematopoietic stem cells

**15:20** - **Cristina Pina**: Inferring rules of commitment in haematopoiesis

**15:40-16:10** *Coffee break*

**16:10-17:30** Session 3: Stem cell based therapies I

CHAIRPERSON: **Annelise Bennaceur Griscelli**

**16:10** - **Marc Peschanski**: Pluripotent stem cells for therapeutics in monogenic diseases

**16:35** - **Fabrice Chrétien**: Skeletal muscle stem cells survive for extended periods post mortem while retaining their regenerative capacity

**16:50** - **Alessandro Aiuti**: Hematopoietic stem cell-based gene therapy for primary immunodeficiencies

**17:15** - **Salvador Aznar-Benitah**: Spatiotemporal regulation of epidermal stem cell behavior by the molecular clock machinery

**17:30-20:00** *Cocktail and Poster session I - odd numbers first half; even numbers second half*

Thursday, April 7th

**9:00-10:35 Session 4: Organogenesis and Regeneration I**

CHAIRPERSON: **Margaret Buckingham**

**09:00 - Kenneth Poss:** Cardiac regenerative capacity and mechanisms in zebrafish

**09:25 - Didier Stainier:** Pancreatic beta-cell development and regeneration

**09:50 - Valerie Vidal:** Identification of a stem/progenitor cell population within the adrenal cortex

**10:05 - Ely Tanaka:** Three-Dimensional Neuroepithelial Culture Accelerates Human Embryonic Stem Cell Neural Induction and Can Be Used for Quantitative Conversion to Retinal Pigment Epithelium

**10:35-11:05 Coffee break**

**11:05-12:15 Session 5: Stem cell based therapies II**

CHAIRPERSON: **Ana Cumano**

**11:05 - Marina Cavazzana-Calvo:** AK2 regulates hematopoietic cell proliferation and differentiation along the neutrophil and T-cell lineages

**11:30 - Penny Gilbert:** Biophysical Regulation of Adult Stem Cell Self-Renewal in Culture

**11:45 - Oliver Brüstle:** From pluripotent stem cells to neurological disease modeling

**12:15-13:45 Lunch and Poster session II - odd numbers first half; even numbers second half**

**13:45-15:00 Session 6: Organogenesis and Regeneration II**

CHAIRPERSON: **Elena Cattaneo**

**13:45 - Kenneth Zaret:** Role of a chromatin "Pre-Pattern" and histone modifiers in fate choices of multipotent progenitor cells

**14:10 - Alessandro Alunni:** Molecular and cellular analysis of adult neurogenesis in the zebrafish telencephalon

**14:25 - Wieland Huttner:** Neural stem and progenitor cells - a cell biological and evolutionary perspective

**15:00-17:00 Cocktail and Poster session II - odd numbers first half; even numbers second half**

**17:00 Visit to Orsay Museum + Dinner or Free evening**

**Friday, April 8th**

**9:15-10:35 Session 7: Organogenesis and Regeneration III**

CHAIRPERSON: **François Schweisguth**

**09:15 - Fiona Watt:** Reciprocal Signalling between Epidermal Stem Cells and Their Neighbours

**09:40 - Ines Sequeira:** The long-lived hair follicle stem cells

**09:55 - Cédric Blanpain:** Revisiting the cellular hierarchy acting during mammary gland development and homeostasis

**10:20 - Carolina Perdigoto:** Cell Fate Control in the Adult Drosophila Intestine

**10:35-11:05 Coffee break**

**11:05-12:10 Session 8: Stem cell based therapies III**

CHAIRPERSON: **Giulio Cossu**

**11:05 - Michele De Luca:** Limbal Stem-Cell Therapy and Long-Term Corneal Regeneration

**11:30- Philippe Menasché:** How we can enhance the benefits of stem cell therapy in heart and failure patients ?

**11:55 - Yvan Torrente:** Autologous Transplantation of Engineered Stem Cells in GRMD Dogs

**12:10 - Giulio Cossu:** A novel strategy for autologous cell therapy for Duchenne Muscular Dystrophy

**12:40 -14:00 Lunch**

**14:00-15:30 Session 9: Organogenesis and Regeneration IV**

CHAIRPERSON: **Austin Smith**

**14:00 - David Sassoon:** PW1/Peg3 identifies a large array of adult stem cells

**14:25 - Kim Jensen:** Negative regulation of growth factor signalling governs stem cell homeostasis

**14:40 - Marieke Essers:** Activation of dormant hematopoietic stem cells in vivo by the endotoxin LPS

**15:05 - Brigid Hogan:** Epithelial stem cells in lung maintenance and repair

**15:30: Concluding remarks and Poster prizes**

**Departure**