

22 June, Day 2



Theme Sessions
Tissue Stem Cells and Regeneration

TISSUE STEM CELLS AND REGENERATION: STEM CELLS AND CANCER

7:30 – 9:15 EDT

Sponsored by: ROCHE and GENENTECH
Chairs: Ilaria Malanchi, Crick Institute, UK
Cédric Blanpain, Université Libre de Bruxelles, Belgium

MECHANISMS REGULATING TUMOR TRANSITION STATES

Cédric Blanpain, Université Libre de Bruxelles, Belgium

TRACING ONCOGENE-DRIVEN PARACRINE REMODELING OF THE INTESTINAL STEM CELL NICHE

Min Kyu Yum, University of Cambridge, UK

CELLULAR MECHANISMS OF MOUSE INTESTINAL POLYP INITIATION

Kaelyn Sumigray, Yale School of Medicine, USA

A MACROPHAGE - CANCER STEM CELL CROSSTALK VIA WNT LIGANDS GOVERNS SKIN CARCINOMA PROMOTION AND STEMNESS.

Silvia Fontenete, University of Copenhagen, Denmark

STEM CELL BIOLOGY IN PITUITARY TUMORS AND DERIVED ORGANOIDS

Charlotte Nys, KU Leuven, Belgium

REPRESSION OF ENDOGENOUS RETROVIRUSES IS REQUIRED FOR MAMMARY GLAND DEVELOPMENT

Alexandra Avgustinova, Institut de Recerca Sant Joan de Deu, Spain

THE INSIDE OUT STEMNESS OF METASTASIS

Ilaria Malanchi, Crick Institute, UK

TISSUE STEM CELLS AND REGENERATION: TISSUE DEVELOPMENT AND MAINTENANCE

14:00 – 15:45 EDT

Chairs: Emma L. Rawlins, Gurdon Institute, University of Cambridge, UK
Salvador Aznar Benitah, IRB Barcelona, Spain

DISSECTING THE DAILY COMMUNICATION BETWEEN TISSUES TO MAINTAIN A COHERENT ORGANISMAL PHYSIOLOGY. HOW ITS LOSS CONTRIBUTES TO AGING AND PATHOLOGY

Salvador Aznar Benitah, IRB Barcelona, Spain

UNIQUE REGULATORY MODULES UNDERLIE SKELETAL MUSCLE STEM CELL DIVERSITY AND FUNCTION

Shahragim Tajbakhsh, Pasteur Institute, France

A BIOMECHANICAL SWITCH REGULATES THE TRANSITION TOWARDS HOMEOSTASIS IN MOUSE ESOPHAGEAL EPITHELIUM.

Maria Alcolea, University of Cambridge, UK

SOCIALIZING WITH THE NEIGHBORS: LYMPHATIC NICHE SYNCHRONIZES STEM CELL FATE DECISION AND TISSUE REGENERATION

Shiri Gur-Cohen, The Rockefeller University, USA

UNDERSTANDING A MECHANISM UNDERLYING BONE REPAIR BY COMBINATORIAL ANALYSIS OF LINEAGE TRACING AND SINGLE-CELL RNA SEQUENCING

Mika Nakayama, The University of Tokyo, Japan

TISSUE AND CELL-SCALE MECHANICS DRIVE HAIR FOLLICLE MORPHOGENESIS

Irene Ylivinkka, University of Helsinki, Finland

BUILDING THE HUMAN LUNG: LESSONS FROM ORGANOIDS

Emma L. Rawlins, Gurdon Institute, University of Cambridge, UK

23 June, Day 3



Theme Sessions
Tissue Stem Cells and Regeneration

TISSUE STEM CELLS AND REGENERATION: WOUND HEALING, STRESS AND AGING

7:30 – 9:15 EDT

Chairs: Kim B. Jensen, BRIC, Denmark
Emmanuelle Passegue, Columbia University Medical Center, USA

EMERGENCY MYELOPOIESIS PATHWAYS

Emmanuelle Passegue, Columbia University Medical Center, USA

AGING OF MOUSE AND HUMAN SKELETAL STEM CELLS UNDERLIES LINEAGE SKEWING THAT ALTERS BONE MARROW NICHE DYNAMICS

Thomas Ambrosi, Stanford University, USA

NICHE MECHANICS CONTROLS STEM CELL POTENTIAL THROUGH REGULATING CHROMATIN ARCHITECTURE

Yekaterina Miroshnikova, University of Helsinki, Finland

DEFINING THE TRANSCRIPTIONAL SIGNATURE OF ESOPHAGEAL-TO-SKIN LINEAGE CONVERSION

Maria Bejar, University of Cambridge, UK

SOFT BIOMECHANICAL PROPERTIES OF THE LIMBUS SUSTAIN YAP ACTIVITY TO PREVENT SMAD2/3 MEDIATED CELL DIFFERENTIATION IN THE MOUSE AND HUMAN CORNEAL EPITHELIUM

Swarnabh Bhattacharya, Technion - Israel Institute of Technology, Israel

EXPLORING THE HUMAN LACRIMAL GLAND USING ORGANOID AND SINGLE-CELL SEQUENCING

Marie Bannier-Hélaouët, Hubrecht Institute, Netherlands

MAPPING CELL FATE CONTROL MECHANISMS DURING STATE TRANSITIONS

Kim B. Jensen, BRIC, Denmark

TISSUE STEM CELLS AND REGENERATION: HEMATOPOIETIC STEM CELLS

14:00 – 15:45 EDT

Sponsored by: Dana-Farber Cancer Institute
Chairs: Leonard I. Zon, Boston Children's Hospital, USA
Andreas Trumpp, DKFZ/HI-STEM, Germany

REGULATION OF HEMATOPIETIC AND LEUKEMIC STEM CELLS

Andreas Trumpp, DKFZ/HI-STEM, Germany

DICHOTOMOUS REGULATION OF LYSOSOMES BY MYC AND TFEB CONTROLS HEMATOPOIETIC STEM CELL FATE

Laura Garcia Prat, University Health Network (UHN), Canada

ADULT HEMATOPOIETIC STEM CELL CLONAL CONTRIBUTION IS DETERMINED BY MACROPHAGE SENSING OF CALRETICULIN 3 ON HEMATOPOIETIC STEM CELLS DURING DEVELOPMENT

Samuel Wattus, Harvard Stem Cell Institute, USA

PRENATAL INFLAMMATION PERTURBS FETAL HEMATOPOIESIS AND DRIVE PERSISTENT CHANGES TO POSTNATAL IMMUNITY

Anna Beaudin, University of Utah, USA

MITOCHONDRIAL DYNAMICS REGULATE INTERFERON SIGNALING AND AGE-RELATED CHANGES IN HSPC

Carolina Petrillo, Columbia University Medical Center, USA

OVERLAPPING DEFINITIVE PROGENITOR WAVES DIVIDE AND CONQUER TO BUILD A LAYERED HEMATOPOIETIC SYSTEM

Laina Freyer, Institut Pasteur, France

STEM CELL CLONALITY AND THE NICHE

Leonard I. Zon, Boston Children's Hospital, USA