



# Hematopoietic Stem Cells: From the Embryo to the Aging Organism

EMBL CONFERENCE



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## **EMBL Courses and Conferences during the Coronavirus pandemic**

With the onsite programme paused, many of our events are now being offered in virtual formats.

Registration is open as usual for many events, with back-up plans in place to move further courses and conferences online as necessary. Registration fees for any events affected by the COVID-19 disruption are fully refundable.

More information for participants of events at EMBL Heidelberg can be found [here](#).

## Programme

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### Day 1 - Thursday 7 June 2018

Time	Speaker
10:00 - 12:00	<b>Arrival and Registration</b> with light refreshments
12:00 - 12:15	<b>Opening Remarks</b>

Time	Speaker
12:15 - 13:15	<p><b>Keynote Lecture: Unraveling the biology of normal and malignant hematopoietic stem and progenitor cells at the single cell level</b></p> <p>Sten Eirik Jacobsen - <i>Karolinska Institutet, Sweden</i></p> <p><b>Presenter:</b> Christophe Lancrin</p>
13:15 - 17:15	<p><b>Session 1: Hematopoietic Stem Cells in the Embryo</b></p> <p><b>Chairs:</b> Thierry Jaffredo and Catherine Robin</p>
13:15 - 13:45	<p><b>Single cell transcriptomics reveal the dynamic of hematopoietic stem cell emergence and maturation in the aorta of the mouse embryo</b></p> <p>Catherine Robin - <i>Hubrecht Institute, The Netherlands</i></p>
13:45 - 14:00	<p><b>An ubiquitin proteasome pathway controls drosophila hematopoiesis</b></p> <p>Michèle Crozatier - <i>Centre de Biologie du Developpement, France</i></p>
14:00 - 14:30	<p><b>Analysis of hematopoietic cell formation in the major arteries of the mouse embryo</b></p> <p>Nancy Speck - <i>University of Pennsylvania, USA</i></p>
14:30 - 15:00	<p><b>Coffee Break and Meet the Speakers with:</b></p> <p>Sten Eirik Jacobsen - <i>Karolinska Institutet, Sweden</i></p> <p>Catherine Robin - <i>Hubrecht Institute, The Netherlands</i></p> <p>Nancy Speck - <i>University of Pennsylvania, USA</i></p> <p>Anna Bigas - <i>Institut Hospital del Mar d'Investigacions Mèdiques (IMIM), Spain</i></p> <p>Trista North - <i>Boston Childrens Hospital and Harvard Medical School, USA</i></p>
15:00 - 15:15	<p><b>A conserved endothelial enhancer in the gata2a locus reveals non redundant roles for Gata2a and Gata2b in embryonic and adult haematopoietic stem cells</b></p> <p>Rui Monteiro - <i>University of Birmingham, UK</i></p>
15:15 - 15:45	<p><b>Notch ligands shape the nascent hematopoietic stem cell niche in the embryonic aorta</b></p> <p>Anna Bigas - <i>Institut Hospital del Mar d'Investigacions Mèdiques (IMIM), Spain</i></p>
15:45 - 16:00	<p><b>Somite derived stromal cells, a key component of the HSC expansion/differentiation niche in zebrafish : first insights in the molecular mechanisms of their emergence from the somite</b></p> <p>Emi Murayama - <i>Institut Pasteur, France</i></p>

Time	Speaker
16:00 - 16:30	<b>From blood vessels to hematopoietic stem cells</b> Christophe Lancrin - <i>EMBL Rome, Italy</i>
16:30 - 17:00	<b>Extrinsic regulation of hematopoiesis</b> Trista North - <i>Boston Childrens Hospital and Harvard Medical School, USA</i>
17:00 - 17:15	<b>Flash Talk Session I</b> Julien Bertrand (abstract no. 38) - <i>University of Geneva, Switzerland</i> Vashe Chandrakanthan (abstract no. 43) - <i>University of New South Wales, Australia</i> Thomas Clapes (abstract no. 44) - <i>Max Planck Institute of Immunobiology and Epigenetics, Germany</i> Marion Mesnieres (abstract no. 79) - <i>KU Leuven, Belgium</i> Anne Schmidt (abstract no. 92) - <i>Institut Pasteur, France</i>
17:15 - 18:45	<b>Poster Session I (odd numbers)</b> with beer and snacks
18:45 - 20:15	<b>Dinner in EMBL Canteen</b>
20:15 - 21:30	<b>Speed Networking Session in EMBL Canteen</b>
20:15 - 22:00	<b>After Dinner Drinks with Live Music by Blue Note Jazz Duo in ATC Rooftop Lounge</b>

## Day 2 - Friday 8 June 2018

Time	Speaker
09:00 - 15:15	<b>Session 2: Hematopoietic Stem Cells in the Adult Animal</b> <b>Chairs:</b> Roi Gazit and Christophe Lancrin
09:00 - 09:30	<b>Metabolism meets the epigenome in AML stem cells</b> Andreas Trumpp - <i>German Cancer Research Center (DKFZ) and HI-STEM, Germany</i>
09:30 - 09:45	<b>Restriction of myelo lymphoid lineage potential occurs within the human haematopoietic stem cell pool</b> Emily Calderbank - <i>University of Cambridge, UK</i>
09:45 - 10:15	<b>Cross talk between embryonic and adult hematopoiesis</b> Claudia Waskow - <i>Leibniz Institute on Aging, Germany</i>
10:15 - 10:30	<b>Apelin positive endothelial cells control hematopoiesis and bone marrow transplantation</b> Qi Chen - <i>Max Planck Institute for Molecular Biomedicine, Germany</i>

Time	Speaker
	<b>Coffee Break and Meet the Speakers with:</b> Andreas Trumpp - <i>German Cancer Research Center (DKFZ) and HI-STEM, Germany</i>
10:30 - 11:00	Claudia Waskow - <i>Leibniz Institute on Aging, Germany</i> Shannon McKinney-Freeman - <i>St. Jude Children's Research Hospital, USA</i> David Kent - <i>University of Cambridge, UK</i>
11:00 - 11:30	<b>Exploring hematopoietic stem cell emergence during ontogeny</b> Shannon McKinney-Freeman - <i>St. Jude Children's Research Hospital, USA</i>
11:30 - 11:45	<b>Investigating the role of Bone Marrow Stroma in the response of Haematopoietic Stem Cells to Plasmodium berghei infection</b> Myriam Haltalli - <i>Imperial College London, UK</i>
11:45 - 12:15	<b>Tracking human hematopoietic stem cell clonal dynamics using somatic mutations</b> David Kent - <i>University of Cambridge, UK</i>
	<b>Flash Talk Session II</b>
12:15 - 12:30	Nina Cabezas-Wallscheid (abstract no. 41) - <i>Max Planck Institute of Immunobiology and Epigenetics, Germany</i> Kerstin Cornils (abstract no. 46) - <i>University Medical Center Hamburg-Eppendorf, Germany</i> Marta Derecka (abstract no. 50) - <i>Max Planck Institute of Immunobiology and Epigenetics, Germany</i> Tatyana Grinenko (abstract no. 58) - <i>TU Dresden, Germany</i> Mina Morcos (abstract no. 56) - <i>TU Dresden, Germany</i> Tamar Tak (abstract no. 97) - <i>Institut Curie, France</i>
12:30 - 13:30	<b>Lunch and Meet the Editors in ATC Foyer with:</b> Daniel Klimmeck - <i>The EMBO Journal, Germany</i> Andrea Leibfried - <i>Life Science Alliance, Germany</i> Achim Breiling - <i>EMBO Reports, Germany</i> Celine Carret - <i>EMBO Molecular Medicine, Germany</i>
13:30 - 14:00	<b>Deconstructing stem cell niche contributions to bone marrow failure and leukemogenesis</b> Marc Raaijmakers - <i>Erasmus MC, The Netherlands</i>
14:00 - 14:15	<b>Decoding the regulatory circuit by epigenetic regulator MOF in haematopoiesis</b> Cecilia Rodrigues - <i>Max Planck Institute, Germany</i>
14:15 - 14:45	<b>Metabolic regulation of blood and bone forming stem cells: The role of ROS, mitochondria transfer, nitric oxide and melatonin</b> Tvsee Lapidot - <i>Weizmann Institute of Science, Israel</i>

Time	Speaker
14:45 - 15:15	<p><b>Functional heterogeneity and aging of blood vessels in the skeletal system</b> Ralf Adams - <i>Max Planck Institute for Molecular Biomedicine, Germany</i></p>
15:15 - 15:45	<p><b>Coffee Break and Meet the Speakers with:</b> Marc Raaijmakers - <i>Erasmus MC, The Netherlands</i> Tvsee Lapidot - <i>Weizmann Institute of Science, Israel</i> Ralf Adams - <i>Max Planck Institute for Molecular Biomedicine, Germany</i> Emmanuelle Passegué - <i>Columbia University Medical Center, USA</i> Michael Milsom - <i>HI-STEM, Germany</i> Amy Wagers - <i>Harvard University, USA</i></p>
15:45 - 18:15	<p><b>Session 3: Hematopoietic Stem Cells Aging</b> <b>Chairs:</b> Marc Raaijmakers and Leïla Perié</p>
15:45 - 16:15	<p><b>Inflammaging – a crosstalk between two aging systems: Stroma and blood</b> Emmanuelle Passegué - <i>Columbia University Medical Center, USA</i></p>
16:15 - 16:30	<p><b>Oncogene induced senescence in hematopoietic progenitors leads to myeloid restricted hematopoiesis, chronic inflammation and aggressive histiocytosis</b> Raffaella Di Micco - <i>San Raffaele Institute for Gene Therapy (SR TIGET), Italy</i></p>
16:30 - 17:00	<p><b>Stress hematopoiesis and ageing</b> Michael Milsom - <i>HI-STEM, Germany</i></p>
17:00 - 17:15	<p><b>Normal and malignant splicing in hematopoietic stem cells</b> Roi Gazit - <i>Ben-Gurion University of the Negev, Israel</i></p>
17:15 - 17:45	<p><b>Intrinsic and extrinsic signals regulating stem cell aging</b> Amy Wagers - <i>Harvard University, USA</i></p>
17:45 - 18:00	<p><b>Neogenin 1 defines the myeloid biased fraction of long term Hoxb5+ hematopoietic stem cells (HSC) that expands during mobilization and aging</b> Krzysztof Szade - <i>Stanford University, USA</i></p>
18:00 - 18:15	<p><b>Flash Talk Session III</b> Miguel Ganuza (abstract no. 55) - <i>St. Jude Children's Research Hospital, USA</i> Emanuele Lettera (abstract no. 76) - <i>San Raffaele Research Institute, Italy</i> Carolina Petrillo (abstract no. 84) - <i>Ospedale San Raffaele, Italy</i> Rama Khokha on behalf of Sanjay Saw (abstract no. 91) - <i>University Health Network, Canada</i></p>
18:15 - 19:45	<p><b>Poster Session II (even numbers)</b> with beer and snacks</p>

Time	Speaker
19:45 - 21:00	<b>Conference Dinner in EMBL Canteen</b>
21:00 - 00:00	<b>Conference Party with DJ Rotard and Photobooth in EMBL Canteen</b>

## Day 3 - Saturday 9 June 2018

Time	Speaker
09:00 - 14:00	<b>Session 4: New technologies for Hematopoietic Stem Cells Research</b> <b>Chairs:</b> Nina Cabezas-Wallscheid and Julien Bertrand
09:00 - 09:30	<b>Clonal analysis of native hematopoiesis</b> Fernando Camargo - <i>Boston Children's Hospital, USA</i>
09:30 - 09:45	<b>A human ips model implicates embryonic b myeloid fate restriction as a developmental susceptibility to ETV6 RUNX1</b> Charlotta Böiers - <i>Lund University, Sweden</i>
09:45 - 10:00	<b>Insights into the biological characteristics of hemogenic endothelium</b> Valerie Kouskoff - <i>University of Manchester, UK</i>
10:00 - 10:15	<b>Uncovering the origin of Down syndrome associated leukemia</b> Sara Martina Maffioletti - <i>San Raffaele Telethon Institute for Gene Therapy, Italy</i>
10:15 - 10:45	<b>Coffee Break and Meet the Speakers with:</b> Fernando Camargo - <i>Boston Children's Hospital, USA</i> Hans-Reimer Rodewald - <i>German Cancer Research Center (DKFZ), Germany</i> Leïla Perié - <i>Institut Curie, France</i> Paul Frenette - <i>Albert Einstein College of Medicine, USA</i>
10:45 - 11:15	<b>Hematopoiesis under steady state and under challenge dissected by fate mapping and Polylox barcoding</b> Hans-Reimer Rodewald - <i>German Cancer Research Center (DKFZ), Germany</i>
11:15 - 11:30	<b>Somatic mutations reveal lineage relationships and age related mutagenesis in human hematopoiesis</b> Ruben van Boxtel - <i>Princess Máxima Center, The Netherlands</i>
11:30 - 12:00	<b>Retracing the in vivo haematopoietic tree using cellular barcoding methods</b> Leïla Perié - <i>Institut Curie, France</i>
12:00 - 13:30	<b>Lunch in EMBL Canteen</b>

Time	Speaker
13:30 - 13:45	<b>Multi layered single cell transcriptional profiling of all bone and bone marrow populations provides a systems view of the mesenchymal and hematopoietic stem cell niche</b> Jude Al-Sabah - <i>HI-STEM and German Cancer Research Center (DKFZ), Germany</i>
13:45 - 14:00	<b>GFI1B molecular function in megakaryocytes from induced pluripotent stem cells</b> Marten Hansen - <i>Sanquin, The Netherlands</i>
14:00 - 15:00	<b>Keynote Lecture: Young and old HSC niches</b> Paul Frenette - <i>Albert Einstein College of Medicine, USA</i> <b>Presenter:</b> Catherine Robin
15:00 - 15:15	<b>Closing Remarks and Poster Prize</b>