

# TRANSCRIPTIONAL MECHANISMS OF EARLY LYMPHOCYTE DEVELOPMENT SYMPOSIUM

November 5-6, 2009, La Jolla, California, US

Organizers: Ellen Rothenberg (California Institute of Technology) and Abcam

## CONFERENCE PROGRAM

### Day 1

08:00 – 09:00	<b>Registration</b>
<b>Session 1</b>	<b>Hematopoiesis and multilineage decision making</b> Chair: Thomas Graf
09:00 – 09:35	<b>Thomas Graf</b> <i>Lessons from immune cell reprogramming</i>
09:35 – 10:05	<b>Berthold Göttgens</b> <i>Reconstructing blood stem cell transcriptional regulatory networks</i>
10:05 – 10:25	<b>George Souroullas</b> <i>Lyl1 and Scl regulate Bcl2 expression and control apoptosis at different stages of hematopoietic development</i>
10:25 – 10:45	<b>Jonathan Keller</b> <i>Repression of Id2 by Gfi-1 is required for B cell and myeloid cell development</i>
10:45 – 11:05	<b>Coffee break</b>
<b>Session 2</b>	<b>Principles of combinatorial transcription factor action</b> Chair: Constanze Bonifer
11:05 – 11:40	<b>Harinder Singh</b> <i>Gene regulatory networks regulating lymphoid versus myeloid cell fates</i>
11:40 – 12:15	<b>Constanze Bonifer</b> <i>Early chromatin unfolding by RUNX1-a molecular explanation for differential requirements during specification versus maintenance of the hematopoietic gene expression program</i>
12:15 – 12:35	<b>Greg Gregory</b> <i>FOG1 requires NuRD to promote hematopoiesis and maintain lineage fidelity within the megakaryocytic-erythroid compartment</i>
12:35 – 12:55	<b>Cristina Hernandez-Munain</b> <i>Flexible stereospecific interactions and composition within nucleoprotein complexes assembled on the TCRalpha enhancer</i>
12:55 – 14:10	<b>Lunch</b>
<b>Session 3</b>	<b>Factors controlling emergence of lymphoid fates from pluripotent precursors</b> Chair: Meinrad Busslinger
14:10 – 14:45	<b>Barbara Kee</b> <i>The E2A transcriptional factors enforce T lymphocyte lineage commitment</i>
14:45 – 15:05	<b>Ikawa Tomokatsu</b> <i>Expansion of hematopoietic stem/progenitor cells by suppressing E-protein activities</i>
15:05 – 15:25	<b>Hilde Schjerven</b> <i>Selective functions of the DNA-Binding Zinc Fingers of Ikaros in hematopoiesis and tumor suppression</i>
15:25 – 16:00	<b>Katia Georgopoulos</b> TBA
16:00 – 16:20	<b>Coffee break</b>
16:20 – 17:10	<b>KEYNOTE: Eric Davidson</b> <i>Towards a global gene regulatory network for the sea urchin embryo</i>
17:10 – 19:00	<b>Poster session</b>

## Day 2

<b>Session 4</b>	<b>Regulators of B cell development</b> Chair: Cornelis Murre
09:00 – 09:35	<b>Meinrad Busslinger</b> <i>Transcriptional control of B cell development by Pax5</i>
09:35 – 10:05	<b>Rudolf Grosschedl</b> <i>The role of EBF1 in lymphoid lineage choices</i>
10:05 – 10:25	<b>James Hagan</b> <i>Combined haploinsufficiency of EBF1 and RUNX1 genes impedes B cell lineage progression and identity</i>
10:25 – 10:45	<b>John Colgan</b> The Justy Mutation identifies the transcriptional regulator Gon4l as being essential for B Lymphopoiesis
10:45 – 11:05	<b>Coffee break</b>
<b>Session 5</b>	<b>E protein roles in B and T cell development</b> Chair: Katherine Jones
11:05 – 11:40	<b>Yuan Zhuang</b> <i>E-proteins coordinate thymocyte differentiation, proliferation and migration during early T cell development</i>
11:40 – 12:00	<b>Louise D'Cruz</b> <i>The E protein, HEB, is critical for the development of iNKT cells</i>
12:00 – 12:20	<b>Xiao-Hong Sun</b> <i>Id1 attenuates Notch signaling and impairs T cell commitment by elevating Deltex1 expression</i>
12:20 – 12:55	<b>Cornelis Murre</b> <i>Regulation and function of helix-loop-helix proteins in lymphocyte development</i>
12:55 – 13:55	<b>Lunch</b>
<b>Session 6</b>	<b>Transcriptional mechanisms mediating signaling inputs to T cell fate determination</b> Chair: Barbara Kee
13:55 – 14:35	<b>Katherine Jones</b> TBA
14:35 – 14:55	<b>Fotini Gounari</b> <i>Beta-catenin/TCF determines the outcome of thymic selection in response to alpha-betaTCR signaling</i>
14:55 – 15:35	<b>Warren Pear</b> <i>The multiple functions of Notch in early T cell development</i>
15:35 – 15:55	<b>Virginia Shapiro</b> <i>Severe block in hematopoiesis in the absence of NKAP</i>
15:55 – 16:15	<b>Coffee break</b>
<b>Session 7</b>	<b>Lineage choice, commitment, and functional diversification of lymphocytes</b> Chair: Chair: Harinder Singh
16:15 – 16:35	<b>Steve Nutt</b> <i>Co-ordinating the intrinsic and extrinsic arms of Lymphopoiesis</i>
16:35 – 16:55	<b>Derek Sant'Angelo</b> <i>The development of innate T cell effector functions is controlled by PLZF</i>
16:55 – 17:15	<b>Marcos Garcia</b> TBA
17:15 – 17:50	<b>Ellen Rothenberg</b> <i>Mechanisms of commitment in the stem cell to T cell transition</i>
17:50 – 18:50	<b>Farewell Reception</b>