Sunday, August 14, 2011

14:00 - Check-in at housing facility

14:30 – 16:00 Welcome Refreshments

17:30 – 19:00 Dinner (Café Ventana)

19:00 – 19:05 Welcome Remarks: Dong-Er Zhang

19:05 – 21:15 Session I: Normal and cancer stem cell survival and expansion

Chairs: Stephen Nimer & Ewan Cameron

19:05- 19:25 I-1 Daniel Tenen (Cancer Science Institute, NUS & Harvard Medical School)
Runx regulation of long noncoding and extracoding RNAs in hematopoiesis

19:25 – 19:40 I-2 Joanna Tober (Nancy A. Speck) (University of Pennsylvania)
Defining the transition from Runx1 dependence to independence during hematopoietic cell formation.

19:40 – 19:55 I-3 Gareth Brady (Paul Farrell) (Imperial College, UK)
Differential effects of RUNX1 splice variants on Lymphoblastoid cell line growth

19:55 – 20:05 I-4 Yukiko Komeno (Dong-Er Zhang) (Univ. of California San Diego, USA)
“Runx1-IRES-GFP knock-in” mice as a model of “Runx1a KO” mice: changes in hematopoietic stem cells in stable state and under stress

20:05 – 20:25 Break

Chairs: James Mulloy & Suk-Chul Bae

20:25 - 20:45 I-5 Stefano Stifani (McGill University, Canada)
Involvement of Runx1 in the development of motor neurons

20:45 – 21:00 I-6 Cornelia Scheitz (Tudorita Tumbar) (Cornell University, USA)
The skin stem cell regulator Runx1 is essential for initiation and maintenance of skin squamous cell carcinoma

21:00 – 21:20 I-7 Ya Huei Kuo (City of Hope Beckman Research Institute, USA)
Alcam mediated interaction regulates self-renewal of hematopoietic stem cells and Cbfβ-SMMHC induced leukemogenesis.

21:20 Adjourn
Monday, August 15, 2011

7:00 – 9:00 Breakfast  (Café Ventana)

Session II: Mechanisms of cell-fate specification in development and hematopoiesis

9:00 – 11:40

Chairs: Jennifer Westendorf & Yoram Groner

9:00 – 9:20 II-1 Karen Blyth (Beatson Institute for Cancer Research, UK) Dissecting the role of Runx2 in mammary development and breast cancer

9:20 – 9:40 II-2 Peter Gergen (Stony Brook University, USA) Overlapping but distinct roles of Odd-paired and the Jak/Stat pathway in activating the Runt target sloppy-paired-1 during Drosophila segmentation.

9:40 – 10:00 II-3 Marella de Bruijn (University of Oxford, UK) Commitment of endothelial cells to a hematopoietic fate in the AGM occurs before E10.5

10:00 – 10:20 II-4 Motomi Osato (National University of Singapore) Disruption of Runx family genes leads to bone marrow failure and myeloproliferative disorder due to a defective Fanconi anemia-related DNA damage repair pathway

10:20 – 10:40 Break

Chairs: Ditsa Levanon & Paul Liu

10:40 – 11:00 II-5 Alan D. Friedman (Johns Hopkins University, USA) Runx1 absence or dominant inhibition reduces Cebpa transcription to favor monopoiesis over granulopoiesis

11:00 – 11:20 II-6 Alan B. Cantor (Children’s Hospital, Boston, USA) Tyrosine phosphorylation of Runx1 by src family kinases.

11:20 – 11:40 II-7 Issay Kitabayashi (National Cancer Center Research Inst., Japan) Specification of cell fates by RUNX-interacting histone acetyltransferase MOZ

11:40 – 13:00 Lunch  (Café Ventana)

13:00 – 15:00 Poster Session

15:00 – 18:00 Afternoon Networking (Outing: Torrey Pines State Reserve)

17:30 – 19:00 Dinner  (Café Ventana)
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<th>Session III:</th>
<th>Leukemia &amp; Lymphoma, Bone Biology (A)</th>
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<tr>
<td>19:00 – 21:40</td>
<td>Chairs: Carol Stocking &amp; Lucio Castilla</td>
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<tr>
<td>19:00 – 19:20</td>
<td>III-1  Ichiro Taniuchi (RIKEN, RCAI, Kanagawa, Japan)  Genetic and molecular analyses of Runx-dependent transcriptional silencers during thymocytes development.</td>
</tr>
<tr>
<td>19:20 – 19:40</td>
<td>III-2  Alex Tonks (Cardiff University, UK)  The RUNX1-ETO target gene, CD200 inhibits memory Th1 cell function and is associated with increased frequencies of regulatory T-cells in acute myeloid leukemia.</td>
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<td>19:40 – 20:00</td>
<td>III-3  Hironori Harada (Hiroshima University, Japan)  Molecular mechanisms to produce myeloid neoplasms by RUNX1 or MLL chimeras in human CD34⁺ cells</td>
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<td>20:00 – 20:20</td>
<td>III-4  Jianjun Chen (University of Chicago, USA)  The role of miR-126 in acute myeloid leukemia</td>
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<td>20:20 – 20:40</td>
<td>Break</td>
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<td>20:40 – 21:00</td>
<td>Chairs: Hyun Ryoo &amp; Jane Lian</td>
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<td>20:40 – 21:00</td>
<td>III-5  Takashi Yamashiro (Okayama University, Japan)  Core binding factor beta (Cbfβ) functions in the maintenance of stem cells and orchestrates continuous proliferation and differentiation in mouse incisors</td>
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<tr>
<td>21:00 – 21:20</td>
<td>III-6  Je-Yong Choi (Kyungpook National University, Korea)  Essential role of Core binding factor-β in cortical bone mass by regulating Runx2 stability</td>
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<tr>
<td>21:20 – 21:40</td>
<td>III-7  Jennifer J. Westendorf (Mayo Clinic, USA)  Runx2 regulates Axin2 modulation of mesenchymal cell fate in cranial sutures</td>
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<tr>
<td>21:40</td>
<td>Adjourn</td>
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Tuesday, August 16, 2011

7:00 – 9:00  Breakfast  (Café Ventana)

Session IV:  Leukemia & Lymphoma, Bone Biology (B)
9:00 – 11:50

Chairs: Marella de Bruijn & Yoshi Ito

9:00 – 9:20  IV-1  Carol Stocking (Heinrich-Pette-Institute, Germany)
RUNX1 in-B-cell development and leukemia.

9:20 – 9:40  IV-2  Gang Huang (Cincinnati Children's Hospital, USA)
MLL-PTD causes hypomorph condition of CBF complex (RUNX1/CFBβ) and predisposes the abnormal HSPCs to clonal expansion

9:40 – 10:00  IV-3  James C. Mulloy (Cincinnati Children's Hospital, USA)
Dual role of RUNX1 in human myeloid neoplasms

10:00 – 10:20  IV-4  Gillian Borland (Ewan Cameron) (University of Glasgow, UK)
A role for endogenous Runx1 in lymphoma maintenance?

10:20 – 10:50  Break

Chairs: Je-Yong Choi & Gary Stein

10:50 – 11:10  IV-5  Jane Lian (Univ. of Massachusetts Medical School, USA)
Runx2 Controls the Skeletal Landscape

11:10 – 11:30  IV-6  Hyun-Mo Ryoo (Seoul National University, Korea)
Loss-of-Pin1 impairs osteoblastogenesis by reducing Runx2 protein stability

11:30 – 11:50  IV-7  Andre van Wijnen (Univ. of Massachusetts Medical School, USA)
A Program of MicroRNAs Controls Osteogenic Lineage Progression by Targeting Transcription Factor RUNX2

11:50 – 13:30  Lunch  (Café Ventana)
### Session V: Development and Cancer
14:00 – 17:20

**Chairs: Jim Neil & Peter Gergen**

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<tr>
<th>Time</th>
<th>V-1</th>
<th>Speaker and Institution</th>
<th>Topic</th>
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<tbody>
<tr>
<td>14:00 – 14:20</td>
<td>V-1</td>
<td>Yoram Groner (The Weizmann Institute of Science, Israel)</td>
<td>The Role of Alternative Promoter Usage in Runx3 Biology</td>
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<tr>
<td>14:20 – 14:40</td>
<td>V-2</td>
<td>Ditsa Levanon (Weizmann Institute of Science, Israel)</td>
<td>Transcription Regulation of Cytolytic Effector Cells by Runx3</td>
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<td>14:40 – 15:00</td>
<td>V-3</td>
<td>You-Mie Lee (Kyungpook National University, Korea)</td>
<td>Methylation by G9a HMT impairs the function and subcellular localization of RUNX3</td>
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<td>15:20 – 15:40</td>
<td>V-4</td>
<td>Han-Sung Jung (Yonsei University, Korea)</td>
<td>Abnormal liver differentiation and impaired angiogenesis in mice lacking Runx3</td>
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<td>15:40 – 16:00</td>
<td>V-5</td>
<td>Lin-Feng Chen (University of Illinois at Urbana-Champaign, USA)</td>
<td>RUNX3 acts as a tumor suppressor in breast cancer by targeting estrogen receptor α</td>
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<tr>
<th>Time</th>
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<td>16:00 – 16:20</td>
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**Chairs: Stefano Stefani & Nancy Speck**

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<th>Time</th>
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<th>Speaker and Institution</th>
<th>Topic</th>
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<tr>
<td>16:20 – 16:40</td>
<td>V-6</td>
<td>Yoshiaki Ito (Cancer Science Institute of Singapore, Singapore)</td>
<td>Runx3 protects gastric epithelial cells against EMT-induced plasticity and Lgr5-expressing tumorigenic subpopulation</td>
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<td>16:40 – 17:00</td>
<td>V-7</td>
<td>Suk-Chul Bae (Chungbuk National Univ. Korea)</td>
<td>Identification of a mechanism of feedback regulation critical for the R-point decision.</td>
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<td>17:00 – 17:20</td>
<td>V-8</td>
<td>Stephen D. Nimer (Memorial-Sloan Kettering Cancer Center, USA)</td>
<td>Effects of “histone modifying enzymes” on the function of AML1 and AML1-ETO</td>
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<th>Time</th>
<th>Cocktail at the Bistro Patio</th>
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<td>17:30 – 20:30</td>
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<tr>
<th>Time</th>
<th>Reception Dinner at the Bistro</th>
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<td>19:00 – 22:00</td>
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</table>
Wednesday, August 17, 2011

**7:00 – 9:00** Break (Café Ventana)

**Session VI: Therapeutic targets and drug discovery**

8:40 – 11:30

**Chairs: Ichiro Taniuchi & Motomi Osato**

8:40 – 9:00 VI-1 **Paul Liu** (NHGRI, NIH, USA)
Development of novel targeted treatment for Core Binding Factor (CBF) leukemias

9:00 – 9:20 VI-2 **Lucio Castilla** (University of Massachusetts, USA)
Oncogenic THPO/MPL signaling in acute myeloid leukemia with RUNX1-ETO

9:20 – 9:40 VI-3 **J.-R. Joanna Yeh** (Massachusetts General Hospital, USA)
Discovering chemical suppressors of AML1-ETO in zebrafish

9:40 – 10:00 Break

**Chairs: Issay Kitabayashi & Andre van Wijnen**

10:00 – 10:20 VI-4 **Jörn Lausen** (Georg-Speyer Haus Institute for Biomedical Research, Germany)
The histone arginine methyl-transferase PRMT6 is a RUNX1 associated corepressor

10:20 – 10:40 VI-5 **Yogen Saunthararajah** (Cleveland Clinic, USA)
Runx1 regulation of corepressor/coactivator exchange by lineage-specifying transcription factors enables selective, p53-independent anti-leukemia therapy

10:40 – 10:55 VI-6 **Miao-Chia Lo** (Dong-Er Zhang) (Univ. of California San Diego, USA)
Combined gene expression and DNA occupancy profiling identifies JAK/STAT signaling as a valid therapeutic target of t(8;21) acute myeloid leukemia

10:55 – 11:25 **2012 Organizers/Round Table**

11:25 Adjourn

11:30 – 1:00 Lunch (Café Ventana)
POSTER PRESENTATIONS:

P-1  Nras oncogenic mutation provides survival advantage to preleukemic progenitors and synergizes with CBFb-SMMHC in leukemia development
Liting Xue (Lucio Castilla) (University of Massachusetts Medical School)

P-2  Cis-regulatory contributions to the regulation of sloppy-paired-1 transcription initiation and elongation
Saiyu Hang (Peter Gergen) (Stony Brook University, New York)

P-3  CBFβ is required in Ly6a-expressing cells for hematopoietic stem cell formation
Yan Li (Nancy Speck) (University of Pennsylvania)

P-4  Runx1 is required for Cfbf-MYH11 activity during primitive hematopoiesis
Paul Liu (NHGRI, NIH, Bethesda Maryland)

P-5  Negative Effects of Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) Signaling in a Murine Model of t(8;21)-Induced Leukemia
Ming Yan (Dong-Er Zhang) (University of California, San Diego)

P-6  PRMT1 interacts with AML1-ETO to promote its transcriptional activation and progenitor cell proliferative potential
Wei-Jong Shia (Dong-Er Zhang) (University of California, San Diego)

P-7  COX/b-catenin signaling pathway mediates AML1-ETO function in leukemogenesis
Yiyun Zhang (J.-R. Joanna Yeh) (Massachusetts General Hospital)

P-8  S100A2, a target gene of RUNX3 and p53 in gastrointestinal cells
Jason Koo (Yoshiaki Ito) (Cancer Science Institute of Singapore)

P-9  Histone acetyltransferase MOZ and MORF are essential for hematopoiesis and self renewal of hematopoietic stem cells.
Issay Kitabayashi (National Cancer Center Research Institute, Tokyo)
P-10 The SALL4/Runx1 pathway in normal hematopoiesis
Chong Gao (Li Chai) (Brigham and Women”s Hospital, Boston, MA)

P-11 Identification of RUNX as centrosome-associated proteins.
Soak Kuan Lai (Yoshiaki Ito) (Cancer Science Institute of Singapore, NUS)

P-12 Identification of a mechanism of feedback regulation critical for the R-point decision.
Xin-Zi Chi (Suk-Chul Bae) (Chungbuk National University Korea)

P-13 Epigenetic repression of the AML1/ETO target gene LAT2 and its effects upon myeloid differentiation.
Jesus Duque-Afonso (Michael Lubbert) (University of Freiburg)

P-14 Development and Characterization specific, small-molecule inhibitors of CBFβ-SMMHC
Paul Bradley (Lucio Castilla) (University of Massachusetts Medical School)

Robin Jeannet (Ya Huei Kuo) (City of Hope)

P-16 Notch regulation of runx1 expression in zebrafish endothelial cells.
Emerald Butko (David Traver) (University of California San Diego)

P-17 Abnormal liver differentiation and impaired angiogenesis in mice lacking Runx3
Jong-Min Lee (Han-Sung Jung) (Yonsei University)

P-18 Modeling RUNX1 biallelic mutations associated with AML-M0 and AML-FPD in mice reveals importance of residual Runx1 function
Kira Behrens (Carol Stockling) (Heinrich-Pette-Institute)