

PROGRAM

Saturday, September 20, 2008

15:00 **Welcome and Introduction**
Christer Betsholtz

15:15 - 16:45 **Session 1**

REGULATION OF VASCULAR STABILITY, PERMEABILITY AND TRANSPORT I

Discussion leader: Christer Betsholtz

15:15 Signaling through cadherins and beta catenin in vascular development
Elisabetta Dejana, Milan (page 2)

15:45 Role of VEGF-B in the regulation of endothelial fatty acid transport
Ulf Eriksson, Stockholm (page 3)

16:15 S1P signaling in the vascular system
Timothy Hla, Farmington (page 4)

16:45 *Coffee break*

17:15 - 19:00 **Session 2**

REGULATION OF VASCULAR STABILITY, PERMEABILITY AND TRANSPORT II

Discussion leader: Victoria Bautch

17:15 Role of HIF prolyl hydroxylases in angiogenesis
Georg Breier, Dresden (page 5)

17:45 **BLITZ:** Syk-deficiency in leukocytes leads to abnormal vascular morphogenesis
Friedemann Kiefer, Muenster (page 62)

18:00 VE-PTP as regulator of endothelial cell contact integrity and vascular remodeling
Dietmar Vestweber, Muenster (page 6)

18:30 Robo4 promotes vascular stability
Dean Li, Salt Lake City (page 7)

19:15 *Dinner*

Sunday, September 21, 2008

08:30 - 10:15 Session 3

LYMPHANGIOGENESIS IN HEALTH AND DISEASE

Discussion leader: Hellmut Augustin

- 08:30 Mechanisms mediating lymphatic vessel function and growth
Michael Detmar, Zurich (page 8)
- 09:00 **BLITZ:** The relationship between tumors and the lymphatics:
Implications for metastasis
Jonathan Sleeman, Mannheim (page 84)
- 09:15 **BLITZ:** A zebrafish mutant defective in lymphangiogenesis identifies a
novel protein as an essential element in thoracic duct formation
Stefan Schulte-Merker, Utrecht (page 81)
- 09:30 **BLITZ:** Essential regulation of angiogenesis and lymphangiogenesis
by the microRNA miR-126
Frank Kuhnert, Stanford (page 64)
- 09:45 VEGFR-3 pathway as a target to inhibit angiogenesis, lymphangiogenesis
and tumor metastasis
Kari Alitalo, Helsinki (page 9)
- 10:15 *Group photo*
- 10:30 *Coffee break*

11:00 - 12:30 Session 4

ENDOTHELIAL PHENOTYPES AND VASCULAR MORPHOGENESIS I

Discussion leader: Elisabetta Dejana

- 11:00 Regulation of hemogenic endothelium
Karen Hirschi, Houston (page 10)
- 11:30 How endothelial cells integrate spatial cues to make blood vessels
Victoria Bautch, Chapel Hill (page 11)
- 12:00 Notch signaling dynamics and the control of angiogenesis:
Studies in zebrafish
Jonathan Leslie, London (page 12)
- 12:30 *Lunch*

13:30 - 15:15 Poster Session I

15:15 - 16:15 **Session 5**

ENDOTHELIAL PHENOTYPES AND VASCULAR MORPHOGENESIS II

Discussion leader: Dean Li

- 15:15 Selection and function of endothelial tip and stalk cells in sprouting angiogenesis
Holger Gerhardt, London (page 13)
- 15:45 Exploring the link between endothelial differentiation and vascular morphogenesis
Nathan Lawson, Worcester (page 14)

16:30 - 22:00 **Social event**

Monday, September 22, 2008

08:30 - 10:00 **Session 6**

ENDOTHELIAL PHENOTYPES AND VASCULAR MORPHOGENESIS III

Discussion leader: Lena Cleasson-Welsh

- 08:30 Endothelial origin of hematopoietic stem cells
Luisa Iruela-Arispe, Los Angeles (page 15)
- 09:00 **BLITZ:** VEGFR levels regulate endothelial competition for the tip cell position
Lars Jakobsson, London (page 59)
- 09:15 Oxygen sensors as regulators of tumor vessel morphogenesis
Peter Carmeliet, Leuven (page 16)
- 09:45 **BLITZ:** EphrinB2 regulates VEGFR trafficking to mediate tip cell filopodial extension during angiogenesis
Amparo Acker-Palmer, Frankfurt (page 33)
- 10:00 *Coffee break*

10:30 - 12:00 **Session 7**

ENDOTHELIAL PHENOTYPES AND VASCULAR MORPHOGENESIS IV

Discussion leader: Ralf Adams

- 10:30 Vascular lumen formation *in vitro* and *in vivo*
Eckhard Lammert, Dresden (page 17)
- 11:00 Extracellular matrix remodeling events control endothelial cell lumenogenesis and pericyte-directed endothelial tube stabilization
George Davis, Columbia (page 18)
- 11:30 Coordinated branching morphogenesis of the airways and vasculature in the developing lung
Eli Keshet, Jerusalem (page 19)
- 12:00 *Lunch*

13:00 - 14:30 **Session 8**

ENDOTHELIAL PHENOTYPES AND VASCULAR MORPHOGENESIS V

Discussion leader: Luisa Iruela-Arispe

- 13:00 Guidance of vascular development
Anne Eichmann, Paris (page 20)
- 13:30 Guiding blood vessels: Exploring neuropilin's role in development and disease
Ryan Watts, San Francisco (page 21)
- 14:00 Role of neuropilin-1 and its ligands in neuronal and vascular patterning
Christiana Ruhrberg, London (page 22)

14:30 - 15:45 **Session 9**

ENDOTHELIAL PHENOTYPES AND VASCULAR MORPHOGENESIS VI

Discussion leader: Holger Gerhardt

- 14:30 Regulation of arterial specification
Michael Simons, New Haven (page 23)
- 15:00 Regulation of the angiogenic endothelial phenotype
Ralf Adams, Muenster (page 24)
- 15:30 **BLITZ:** Glioma tumor stem cells are defined by a characteristic gene signature and occupy perivascular and hypoxic niches
Till Acker, Giessen (page 32)
- 15:45 *Coffee break*

16:00 - 18:00 **Poster Session II**

18:00 *Dinner*

19:15 - 20:15 **Session 10**

ANGIOGENESIS IN INFLAMMATION, CANCER AND OTHER PATHOLOGICAL PROCESSES I

Discussion leader: Eli Keshet

- 19:15 The cystatin type 3 HRG in regulation of tumor growth and dissemination
Lena Claesson-Welsh, Uppsala (page 25)
- 19:45 Multiple actions of angiogenesis inhibitors on blood vessels in tumors
Donald McDonald, San Francisco (page 26)

Tuesday, September 23, 2008

8:30 -11:45 **Session 11**

**ANGIOGENESIS IN INFLAMMATION, CANCER AND OTHER
PATHOLOGICAL PROCESSES II**

Discussion leader: Christiana Ruhrberg

- 08:30 Stimulation of tumor growth and VEGF-mediated angiogenesis by low concentrations of anti-angiogenic $\alpha v\beta 3/\alpha v\beta 5$ -integrin inhibitors
Kairbaan Hodivala Dilke, London (page 27)
- 09:00 **BLITZ:** The role of semaphorins in tumor progression and metastatic dissemination
Charlotte Rolny, Uppsala (page 79)
- 09:15 **BLITZ:** Role of semaphorin 3E/PlexinD1 in vascular and tumor biology
Alexander Koch, San Francisco (page 63)
- 09:30 Pro-angiogenic Tie2-expressing monocytes (TEMs) and their relationship with tumor-associated macrophages
Michele De Palma, Milan (page 28)
- 10:00 *Coffee break*

10:30 -11:45 **cont'd Session 11**

**ANGIOGENESIS IN INFLAMMATION, CANCER AND OTHER
PATHOLOGICAL PROCESSES II**

- 10:30 **BLITZ:** A novel human-specific soluble VEGF receptor-1
Shay Sela, Jerusalem (page 83)
- 10:45 Immune cells as regulators of tumor angiogenesis
Lisa Coussens, San Francisco (page 29)
- 11:15 Ang-2 and Tie1 as dynamic regulators of constitutive Ang 1/Tie2 signaling in the vascular system
Hellmut Augustin, Heidelberg/Mannheim (page 30)

End of meeting

- 12:00 *Lunch*
- 13:00 *Departure of shuttle buses*