

# PROGRAMME

Saturday, September 16, 2006

15:00 Welcome and Introduction

15:15-17:00 **Session 1**

## **BLOOD VESSEL MORPHOGENESIS**

Discussion leader: Jan Kitajewski

15:15 **Christer Betsholtz**, Stockholm  
Role for Dll4/Notch1 in the selection of single endothelial tip cells during sprouting angiogenesis (page 2)

15:45 **Ralf Adams**, London  
Regulation of blood vessel morphogenesis through cell-cell and cell-matrix interactions (page 3)

16:15 **Holger Gerhardt**, London (short communication)  
Loss of endothelial cell guidance by MMP-dependent cleavage of VEGF-A causes retinal vasculopathy (page 61)

16:30 **Didier Stainier**, San Francisco  
A common progenitor for hemopoietic and endothelial lineages in the zebrafish gastrula (page 4)

17:00 Coffee Break

17:30-19:00 **Session 2**

## **CELL-CELL SIGNALING IN ANGIOGENESIS**

Discussion leader: Christer Betsholtz

17:30 **Jan Kitajewski**, New York  
Notch in developmental and tumor angiogenesis (page 5)

18:00 **Thomas Gridley**, Bar Harbor  
Notch signaling during vascular development in mice (page 6)

18:30 **Manfred Gessler**, Würzburg  
Dll4-Notch-Hey signalling in endothelial progenitor cells (page 7)

19:00 Dinner

20:00-? **Poster Session I**

**Sunday, September 17, 2006**

**8:30-10:15 Session 3**

**ANGIOGENESIS IN PATHOLOGICAL SITUATION AND ITS MODULATION IN THERAPY**

Discussion leader: Hellmut Augustin

- 8:30 **Napoleone Ferrara**, South San Francisco  
VEGF et al. (page 8)
- 9:00 **Donald McDonald**, San Francisco  
Cessation of VEGF inhibition is followed by rapid regrowth of blood vessels in tumors (page 9)
- 9:30 **Valentin Djonov**, Bern (short communication, long title)  
Escape mechanisms involving intussusceptive angiogenesis and the massive production of smooth-muscle actin after short-term anti-angiogenic therapy (PTK 787) and treatment with ionizing radiation in mice carrying MMTV/c-neu xenografts (page 48)
- 9:45 **Lieve Moons**, Leuven (short communication)  
Therapeutic potential of VEGF family members in pro- and anti-angiogenic therapies (page 69)
- 10:00 **Andrea Banfi** (short communication)  
Angiogenic potentiation, vascular normalization and hind-limb ischemia improvement by matched-level co-delivery of VEGF164 and PDGF-BB (page 30)
- 10:15-10:30 Group photo
- 10:30-11:00 Coffee break

**11:00-12:30 Session 4**

**REGULATION AND MODULATION OF ENDOTHELIAL CELL FUNCTION**

Discussion leader: Ralf Adams

- 11:00 **Elena Pasquale**, La Jolla  
The EphB4 receptor as a target to inhibit angiogenesis (page 10)
- 11:30 **Hellmut Augustin**, Freiburg  
Regulation of vascular homeostasis by angiogenic cytokines (page 11)
- 12:00 **Jan Schnitzer**, San Diego  
Proteomic imaging of microenvironment-dependent expression in endothelium and its caveolae for organ- and tumor-specific delivery in vivo (page 12)
- 12:30 Lunch

13:45-15:45 **Session 5**

**HYPOXIA SIGNALING**

Discussion leader: Georg Breier

- 13:45 **Jacques Pouysségur**, Nice  
Hypoxia signaling from survival to tumor cell death (page 13)
- 14:15 **Randall S. Johnson**, San Diego  
Physiology of angiogenic response during hypoxia (page 14)
- 14:45 **Karl H. Plate**, Frankfurt/Main  
Role of hypoxia in tumor vasculogenesis and tumor angiogenesis (page 15)
- 15:15 **Lorenz Poellinger**, Stockholm  
Mechanisms of signal transduction and gene regulation in hypoxic cells (page 16)
- 15:45-16:15 Coffee break

16:15-18:45 **Session 6**

**LYMPHATIC DEVELOPMENT, LYMPHANGIOGENESIS AND TUMOR METASTASIS**

Discussion leader: Jonathan Sleeman

- 16:15 **Kari Alitalo**, Helsinki  
Lymphangiogenesis in development and disease (page 17)
- 16:45 **Brant Weinstein**, Bethesda  
Live imaging of lymphatic development using the zebrafish (page 18)
- 17:15 **Peter Carmeliet**, Leuven  
Genetic analysis of lymph/angiogenesis and the neurovascular link: therapeutic implications (page 19)
- 17:45 **Gerhard Christofori**, Basel  
Angiogenesis, lymphangiogenesis, and tumor metastasis (page 20)
- 18:15 **Michael Detmar**, Zürich  
Lymphangiogenesis and cancer metastasis - new insights (page 21)
- 19:00-20:00 Dinner

20:00-? **Poster Session II**

## Monday, September 18, 2006

### 8:30-10:15 **Session 7**

#### **VEGF SIGNALING AND FUNCTION**

Discussion leader: Johannes Waltenberger

- 8:30 **Lena Claesson-Welsh**, Uppsala  
VEGF co-receptors in regulation of angiogenesis (page 22)
- 9:00 **Gera Neufeld**, Haifa (short communication)  
The molecular mechanisms by which neuropilins potentiate VEGF signalling (page 81)
- 9:15 **Christiana Ruhrberg**, London (short communication)  
Role of the neuropilin ligands VEGF164 and SEMA3A in neuronal and vascular patterning (page 85)
- 9:30 **Ferdinand Le Noble**, Berlin (short communication)  
A novel role for VEGFR2-Neuropilin-1 signaling in hypoxia-induced cardiomyopathy: rescue with semaphorin A3 (page 83)
- 9:45 **David Bates**, Bristol  
The distal spliced isoforms of VEGF, VEGF<sub>165b</sub>, in pathology and physiology (page 23)
- 10:15 Coffee break

### 10:45-12:15 **Session 8**

#### **ANGIOGENIC SIGNALING: VEGF AND BEYOND**

Discussion leader: David Bates

- 10:45 **Rudi Busse**, Frankfurt  
CYPport for angiogenesis: an unexpected function of cytochrome P450 epoxygenases (page 24)
- 11:15 **Erhard Hofer**, Vienna (short communication)  
Genes preferentially induced by VEGF-A/VEGFR2 (page 50)
- 11:30 **Véronique Orian-Rousseau**, Karlsruhe (short communication)  
The co-receptor function of CD44v6 for c-Met and for VEGFR-2 in angiogenesis (page 72)
- 11:45 **Klaus Preissner**, Giessen (short communication)  
Extracellular RNA induces endothelial cell permeability via vascular endothelial growth factor (page 41)
- 12:00 **Georgia Mavria**, London (short communication)  
Control of sprouting and vessel quiescence by MAP-kinase and Rho GTPase signalling (page 66)
- 12:15 **Marina Schorpp-Kistner**, Heidelberg (short communication)  
Transregulatory and cell-autonomous functions for JunB in angiogenesis (page 60)

12:30 Lunch

13:30 **Angiogenesis goes sailing (Part II)**

18:30 Dinner

20:00-? **Poster Session III**

**Tuesday, September 19, 2006**

8:30-10:15 **Session 9**

**ENDOTHELIAL CELL CONTACTS IN BLOOD VESSEL FORMATION**

Discussion leader: Dietmar Vestweber

8:30 **Elisabetta Dejana**, Milan  
Intracellular signalling through adherens junctions in the development of the vascular system (page 25)

9:00 **Andrea Horst**, Hamburg (short communication)  
CEA-related cell adhesion molecule 1 (CEACAM1) modulates vascular remodelling in vitro and in vivo (page 51)

9:15 **Beat Imhof**, Geneva  
Junctional adhesion molecule C in tumor angiogenesis and monocyte transendothelial migration (page 26)

9:45 **Johannes Waltenberger**, Maastricht  
Monocytes as biosensors for the assessment of vascular integrity (page 36)

10:00 Coffee break

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

**CELL-CELL INTERACTIONS DURING ANGIOGENESIS**

Discussion leader: Holger Gerhardt

10:30 **Dietmar Vestweber**, Münster  
Endothelial cell contacts in inflammation and angiogenesis (page 27)

11:00 **Volkhard Lindner**, Scarborough (short communication)  
The novel gene Cthrc1 is essential for blood vessel formation (page 59)

11:15 **Eli Keshet**, Jerusalem  
Recruitment by VEGF of angiogenic accessory cells (page 28)

**End of meeting**

12:00 Lunch

13:30 Departure of buses