

# Workshop on Cell Migration

## From Molecules to Organisms and Diseases

### Scientific program

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**12<sup>th</sup> May 2007**

h. 12.00/14.00

Registration and poster positioning

h. 13.00/14.00

*Light lunch at workshop venue*

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#### **Session I - CYTOSKELETON**

(h. 14.00/18.00)

h. 14.00/14.40

**Control of filament barbed end growth in motile processes**

**Marie-France Carlier**, Gif-sur-Yvette, France

h. 14.40/15.20

**Multi-Scale Approach to Adhesion Structures**

**Dorit Hanein**, La Jolla, USA

h. 15.20/15.35

**Fascin, a novel target of beta-catenin-TCF signalling, increase migration, invasion and metastasis of colon cancer cells**

**Danijela Vignjevic**, Paris, France

h. 15.35/16.15

**Regulation of the actin cytoskeleton and plasma membrane dynamics by MIM/ABBA family proteins**

**Pekka Lappalainen**, Helsinki, Finland

h. 16.15/16.30

**uPAR-induced cell adhesion and migration: Vitronectin provides the key**

**Chris Madsen**, Milan, Italy

h. 16.30/17.00

*Coffee break*

h. 17.00/18.00

**Poster session I**

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#### **Session II - SIGNALLING TO/FROM CYTOSKELETON**

(h. 18.00/19.35)

h. 18.00/18.40

**EPH receptor/ephrin signaling: dynamic regulation of the actin cytoskeleton and cell motility**

**Catherine Nobes**, Bristol, UK

h. 18.40/18.55

**Regulation of purified native WAVE complexes: tightly inhibited but susceptible to artifactual activation**

**Andres Lebensohn**, Boston, United States

h. 18.55/19.35

**Connecting the membrane to the actin cytoskeleton by the BAR, EFC, and RCB domain proteins and WASP/WAVE proteins**

**Shiro Suetsugu**, Tokyo, Japan

h. 19.35  
End of the session

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## 13<sup>th</sup> May 2007

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### **Session III - SIGNALLING/ADHESION**

(h. 9.00/14.00)

h. 9.00/9.40

#### **Stem cells and morphogenesis**

**Elaine Fuchs**, New York, USA

h. 9.40/9.55

#### **Expression of L1-CAM in human pancreatic carcinoma corresponds to increased endothelial migration in vitro and enhanced vascularization of tumor tissue in situ**

**Yasmin Issa**, Heidelberg, Germany

h. 9.55/10.25

*Coffee break*

h. 10.25/11.05

#### **Regulation of microtubules and cell polarity by Rho GTPases in migrating cells**

**Gregg Gundersen**, New York, USA

h. 11.05/11.20

#### **Rab5 regulates Rac internalization and trafficking promoting spatial restriction of signaling and cell migration**

**Andrea Palamidessi**, Milan, Italy

h. 11.20/12.00

#### **Dynamic regulation of podosomes in primary human cells**

**Stefan Linder**, München, Germany

h. 12.00/13.00

*Lunch*

h. 13.00/15.00

#### **Poster session II**

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### **Session IV - IMAGING**

(h. 15.00/16.35)

h. 15.00/15.40

#### **New live cell biosensor designs: windows on endogenous motility signaling**

**Klaus Hahn**, Chapel Hill, USA

h. 15.40/15.55

#### **Molecular kinetics of AIP1, a cofilin-dependent actin barbed end interacting protein, in lamellipodia: Evidence for frequent filament severing**

**Naoki Watanabe**, Kyoto, Japan

h. 15.55/16.35

#### **Chemotactic cell movement, a key mechanism during development**

**Cornelis J. Weijer**, Dundee, UK

h. 16.35/17.00

*Coffee break*

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### **Session V - ANIMAL MODELS**

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(h. 17.00/19.05)

h. 17.00/17.40

**Insights into the regulation of epithelial border cell migration from genetics and live cell imaging**

**Denise Montell**, Baltimore, USA

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h. 17.40/17.55

**Regulation of actin-driven processes during Drosophila development**

**Sven Bogdan**, Münster, Germany

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h. 17.55/18.10

**Beta1 integrins and the migration of enteric neural crest cells in the gut**

**Marie Breaux**, Paris, France

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h. 18.10/18.50

**Molecular and cellular mechanisms controlling directed germ-cell migration in zebrafish**

**Erez Raz**, Göttingen, Germany

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h. 18.50/19.05

**A combinatorial role for three matrix metalloproteinases in Xenopus embryonic macrophage migration**

**Grant N. Wheeler**, Norwich, UK

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19.05

End of session

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h. 19.30

*Social Dinner*

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## 14<sup>th</sup> May 2007

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### **Session VI - ORGANOGENESIS**

(h. 9.00/10.35 )

h. 9.00/9.40

**Molecular regulation of blood vessel morphogenesis**

**Ralf Adams**, London, UK

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h. 9.40/9.55

**Polycystin-1 Induces Cell Migration by Regulating PI 3kinase-dependent Cytoskeletal Rearrangements and GSK3beta -dependent cell-cell Mechanical Adhesion**

**Manila Boca**, Milan, Italy

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h. 9.55/10.35

**Regulation of Cytoskeletal Dynamics During Neurite Initiation and Axon Navigation**

**Frank B. Gertler**, Madison, USA

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h. 10.35/11.05

*Coffee break*

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### **Session VII - DISEASES**

(h. 11.05/13.40)

h. 11.05/11.45

**Cell motility at the invasive front of tumors: the role of novel Wnt/beta-catenin target genes**

**Avri Ben-Ze'ev**, Rehovot, Israel

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h. 11.45/12.25

**In vivo imaging of cancer invasion: from individual to collective cell migration**

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**Peter Friedl**, Würzburg, Germany

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h. 12.25/12.40

**Identification of genes and pathways regulating tumor invasion and metastasis induced by e-cadherin loss in a conditional mouse model for ILC**

**Gilles Doumont**, Amsterdam, The Netherlands

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h. 12.40/13.40

*Closing Keynote*

**Distinct mechanisms of tumor invasion and metastasis**

**Gerhard Christofori**, Basel, Switzerland

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h. 13.40

End of the workshop and light lunch