

Workshop on Cell Migration

From Molecules to Organisms and Diseases

Scientific program

12th May 2007

h. 12.00/14.00

Registration and poster positioning

h. 13.00/14.00

Light lunch at workshop venue

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

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

13th May 2007

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

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

Session V - ANIMAL MODELS

(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

h. 17.40/17.55

Regulation of actin-driven processes during Drosophila development

Sven Bogdan, Münster, Germany

h. 17.55/18.10

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

Marie Breaux, Paris, France

h. 18.10/18.50

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

Erez Raz, Göttingen, Germany

h. 18.50/19.05

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

Grant N. Wheeler, Norwich, UK

19.05

End of session

h. 19.30

Social Dinner

14th May 2007

Session VI - ORGANOGENESIS

(h. 9.00/10.35)

h. 9.00/9.40

Molecular regulation of blood vessel morphogenesis

Ralf Adams, London, UK

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

h. 9.55/10.35

Regulation of Cytoskeletal Dynamics During Neurite Initiation and Axon Navigation

Frank B. Gertler, Madison, USA

h. 10.35/11.05

Coffee break

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

h. 11.45/12.25

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

Peter Friedl, Würzburg, Germany

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

h. 12.40/13.40

Closing Keynote

Distinct mechanisms of tumor invasion and metastasis

Gerhard Christofori, Basel, Switzerland

h. 13.40

End of the workshop and light lunch