

6th Abercrombie Meeting on Cell Migration: from molecules to organisms.
St Catherine's College, Oxford
9 - 12 September 2007
Sponsored by the British Society for Cell Biology and the Royal Microscopy Society

Provisional Programme

SUNDAY 9TH SEPTEMBER 2007

Dinner 18:00 – 20:00

Keynote Lecture 20:00 (Chair: Anne Ridley)

Gary Borisy, MBL Woods Hole (USA)

MONDAY 10TH SEPTEMBER 2007:

Session 1: Mechanism of Actin Dynamics Chair: Gareth Jones

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| 09:00 | Jan Faix
Hannover Medical School,
Germany | Molecular dissection of filopodium formation |
| 09:40 | Marie-France Carlier
CNRS, Gif-sur-Yvette, France | Multifunctionality of WH2 domains in actin-based motility: from β -thymosin to Ciboulot, N-WASP and spire |
| 10:20 | Pekka Lappalaen
University of Helsinki, Finland | Assembly and turnover of contractile actin filament structures |

11:00 – 11:30 Break for Coffee and Exhibition

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| 11:30 | Graham Dunn
King's College London, UK | Actin cycling in the lamellipodium |
| 12:10 | <i>Selected talk from Posters</i>
Louise Cramer | ADF/Cofilin controls formation of oriented actin filament bundles in the cell body to trigger fibroblast polarization |

12:30 – 14:00 Lunch, Posters and Exhibition

Session 2: Imaging Cell motility and Cytoskeletal dynamics Chair: Graham Dunn

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| 14:00 | Eric Sahai
CRUK, UK | Amoeboid cancer cell motility |
| 14:40 | Vic Small
Institute of Molecular
Biotechnology, Vienna, Austria | Structural rearrangements of the lamellipodium associated with pushing, pausing and retraction |
| 15:20 | Peter Friedl
University of Wurzburg, Germany | Transition from individual to collective cell invasion |

16:00 **Carole Parent** Signal relay during chemotaxis
NIH, USA

16:00 – 16:30 Break for Coffee and Exhibition

16.30 *Selected talk from Posters* TES, a novel regulator of Mena
Boeda Batista

16:50 **Gareth Jones** Regulating the dynamics of leukocyte
King's College London, UK podosomes

17:30 End of Session

18:30 – 19:30 Dinner

20:00 – 22:00 Poster Viewing Session 1

TUESDAY 11TH SEPTEMBER 2007:

Session 3: Motor Proteins and Adhesion Dynamics Chair: Peter Clark

09:00 **Guillaume Charras** Life and times of a cellular bleb
LCN, UCL, UK

09:40 **Mike Sheetz** Mechanical signals in different types of
University of Columbia, USA motility

10:20 **Michelle Peckham** Myosins and cell behaviour
University of Leeds, UK

11:00 – 11:30 Break for Coffee and Exhibition

11.30 **Margaret A. Titus** Talin and the control of Myosin 7-membrane
University of Minnesota USA dynamics

12:10 *Selected talk from Posters* Memo-RhoA-mDia1 signalling regulates
Ali Badache concerted microtubule and actin dynamics
in migrating cells

12:30 – 14:00 Lunch, Posters and Exhibition

Session 4: Migration in vivo Chair: Anne Ridley

14:00 **Kees Weijer** Chemotactic cell movement, a key
University of Dundee, UK mechanism during early development

14:40 **Paul Martin** Live imaging and genetic studies of wound
University of Bristol, UK healing and inflammation

15:20 *Selected talk from Posters* Formin regulation of actin polymerization
Jake Baum during malaria parasite invasion of the
human erythrocyte

15:40 *Selected talk from Posters*
Karen McGee Extra-cellular tension regulates serum-activated trafficking of the SRF co-activator Mal in 3D collagen matrices

16:00 – 16:30 Break for Coffee and Exhibition

16:30 **Denise Montell** Regulation of cell migration *in vivo*
John Hopkins University, USA

17:10 **Michal Reichman-Fried** Migration of primordial germ cells in zebrafish embryos
University of Muenster, Germany

17:50 *Selected talk from Posters*
Giles Gadea Cdc42 controls tumour cell migration. GEFs give the way

18:10 End of Session

18:30 – 19:30 Dinner

20:00 – 22:00 Poster Viewing Session 2

WEDNESDAY 12TH SEPTEMBER 2007:

Session 5: Cell-Cell and Cell-microbial Interactions Chair: Michelle Peckham

09:00 **Plenary Speaker:**
Pascale Cossart Is clathrin controlling actin rearrangements during bacterial interactions with mammalian cells?
Pasteur Institute, France

09:45 **Michael Way** RhoA-mDia signalling regulates microtubule dynamics and cortical actin during vaccinia virus infection
CRUK, London, UK

10:25 **Anne Ridley** Signalling in T cell adhesion and migration
KCL, London, UK

11:05 – 11:35 Break for Coffee

11:35 **Vania Braga** Rho small GTPases in epithelial differentiation
Imperial College London

12.15 **Yoshimi Takai** Roles of nectin and nectin-like molecule in contact inhibition of cell movement
University of Osaka, Japan

12:55 *Final Remarks and end of Session/Meeting*

13:00 – 14:00 Lunch and Departure