

**Exciting Biologies: Biology in Motion**  
**Evian Royal Ermitage, Evian-les-Bains, France**  
**October 11th-13th**

**THURSDAY, OCTOBER 11, 2007**

Opening Remarks

3:30 PM Introduction / Welcome  
Ken Chien, Massachusetts General Hospital  
Yves Christian, Fondation IPESN  
Emilie Marcus, Cell Press  
Elena Porro, Cell Press

Keynote:

3:50 PM Michael Dustin, New York University School of Medicine  
*Migration and Activation of T Cells: Formation of the Immunological Synapse*

Session I: How to Track or Detect Movement

4:50 PM Eric Greene, Columbia University Medical Center  
*Visualizing DNA Repair at the Single Molecule Level*

5:30 PM Coffee Break

6:00 PM Jennifer Lippincott-Schwartz, National Institute of Child Health and Human  
Development  
*Emerging Fluorescence Technologies for the Analysis of Protein Localization and  
Organelle Dynamics*

Short Talk:

6:40 PM Willy Supatto, California Institute of Technology  
*Probing the Emergence of Kinetic Order During Embryo Morphogenesis*

7:00 PM General Discussion

7:30 PM Dinner

**FRIDAY, OCTOBER 12, 2007**

7:30 AM Breakfast

Session 2: What Moves? Spatial Organization or Relative Motion

- 9:00 AM Stephen Kowalczykowski, University of California, Davis  
*DNA Motor Proteins: Single-Molecule Visualization and Behavior*
- 9:40 AM Anne Ephrussi, European Molecular Biology Lab, Heidelberg  
*Assembly of the oskar mRNP for Intracellular Transport in the Drosophila Oocyte*
- Short Talk:
- 10:20 AM Romain Koszul, Harvard University  
*Actin Mediated Motion of Meiotic Chromosomes*
- 10:40 AM Break
- 11:10 AM Kelsey Martin, University of California, Los Angeles  
*Signaling Between Synapse and Nucleus in Neurons*
- 11:50 AM Darren Gilmour, European Molecular Biology Lab, Heidelberg  
*Cells Moving: Coordinating Cell Migration and Shape within Moving Tissues*
- 12:30 PM General Discussion
- 1:00 PM Lunch
- 2:00 PM Poster Session I

Session 3: How do Molecules or Cells Move?

- 4:00 PM Jim Spudich, Stanford University  
*Tension Sensing and the Remarkable Myosin Motor*
- 4:40 PM Daniel Fletcher, University of California, Berkeley  
*Grace Under Pressure: Mechanics and Dynamics of Actin-Based Motility*
- Short Talk:
- 5:20 PM Sigolene Meilhac, Institut Pasteur  
*Cell Movement and Lineage Segregation in the Mouse Blastocyst*
- 5:40 PM Coffee Break
- 6:10 PM Xiaowei Zhuang, Harvard University  
*Transport of Individual Virus Particles in Live Cells*

6:50 PM Peter Friedl, University of Wurzburg, Germany  
*From Individual to Collective Cancer Cell Invasion*

7:30 PM Discussion

7:50 PM Dinner

**SATURDAY, OCTOBER 13, 2007**

7:00 AM Breakfast

Session 4: What Determines Timing or Sequence of Movement?

8:30 AM Robert Landick, University of Wisconsin, Madison  
*Regulation of Transcript Elongation: Controlling Movement of DNA and RNA Through Polymerase*

Short Talk:

9:10 AM Claire Wyman, Erasmus University Medical Center  
*Mechanistic Dynamics of Nucleoprotein Filaments and Joint-Molecules in Homologous Recombination*

9:30 AM Rebecca Heald, University of California, Berkeley  
*Mitotic Spindle Dynamics*

10:10 AM Break

Short Talk:

10:40 AM Lutz Gehlen, Friedrich Miescher Institute for Biomedical Research  
*Factors Influencing Asymmetric Plasmid Segregation in Yeast: Combining Computational and Experimental Approaches*

11:00 AM Ottoline Leyser, University of York  
Long Range Signalling in the Control of Shoot Branching

11:40 AM General Discussion

Noon Lunch

1:00 PM Poster session

Session 5: How do Molecules and Cells Find their Way?

3:00 PM Kees (Cornelis) Weijer, University of Dundee, UK

3:40 PM Arthur Lander, University of California, Irvine  
*Morphogens on the Move: Control Issues in Developmental Patterning*

Short Talk:

4:20 PM Tatjana Piotrowski, University of Utah  
*Canonical Wnt Signaling Regulates Cell Migration in Lateral Line Development*

4:40 PM Break

5:10 PM Pernille Rorth, National University of Singapore  
*Migration and Guidance of a Cell Cluster*

5:50 PM Ulrich Von Andrian, Harvard Medical School  
*Visualizing Immune Responses in Living Mice*

6:30 PM General Discussion

7:00 PM Reception

7:45 PM Dinner

**SUNDAY, OCTOBER 14, 2007**

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