

Scientific Program

Saturday, September 12, 2009

(1) Introduction and Cellular Imaging in vitro and in situ

Chair: Matthias Gunzer

- 13:00 - 13:30 Imaging Form and Function – A roadmap through today's fine microscopy and the workshop program
Peter Reichardt (Magdeburg)
- 13:30 – 14:00 Imaging of T cell migration in slices of murine lymph nodes and human tumors
Emmanuel Donnadieu (Paris)

(2) Molecular Imaging

Chair: Peter Reichardt

- 14:00 – 14:30 Tumour Microenvironment contains high Levels of Extracellular ATP: in Vivo Imaging with Plasma Membrane Luciferase
Francesco Di Virgilio (Ferrara)
- 14:30 – 15:00 PET/MRI Imaging in small animals and humans
Stefan Wiehr (Tuebingen)
- 15:00 – 15:30 TIRF microscopy of B-cell activation
David Depoil (London)

15:30 – 16:00 Coffee Break

(3) Cellular Imaging *in vivo* – leucocytes and tumour cells

Chair: Peter Friedl

- 16:00 – 16:30 B-cell migration: Germinal Centers and beyond
Anja Hauser (Berlin)
- 16:30 – 17:00 Cancer cell migration in vivo: Use of OPO in intravital 2-P microscopy
Peter Friedl (Nijmegen)
- 17:00 – 17:30 Autoaggressive effector T cells invading their target organ during CNS autoimmunity
Alexander Flügel (Munich)
- 17:30-18:00 Cell migration in the bone marrow
Matthias Gunzer (Magdeburg)

18:00 – 19:30 Snacks

20:30 23:00 Speakers´ Dinner

Scientific Program

Sunday, September 13, 2009

(4) Cellular Imaging in vivo – Phagocytes and pathogens

Chair: Matthias Gunzer

- 09:00 – 09:30 Studies on the functions of blood monocytes in vivo
Frederic Geissmann (London)
- 09:30 – 10:00 Imaging motile pathogens during transmission of malaria
Freddy Frischknecht (Heidelberg)

(5) New and unconventional imaging approaches

Chair: Michael Sixt

- 10:00 – 10:30 Cytoskeletal dynamics of migrating leukocytes
Michael Sixt (Munich)
- 10:30 – 11:00 IPALM: IMAGING NANOMETER PROTEIN ORGANIZATION IN 3D WITH LIGHT
Harald Hess (Janelia Farm, Ashburn, VA)
- 11:00 – 11:30 isoSTED – 3D optical nanoscopy
Roman Schmidt (Goettingen)

11:30 – 12:00 Coffee Break

- 12:00 – 12:30 Immune synapse formation determines interaction forces between T cells and antigen presenting cells measured by atomic force microscopy
Günter Hämmerling (Heidelberg)
- 12:30 – 13:00 Single molecule imaging for ultra-sensitive live-cell signaling *analyses in immune cells*
Hannes Stockinger (Vienna)

(6) Towards automated image analysis and interpretation

Chair: Michael Meyer-Herrmann

- 13:00-13:30 Chances and traps in the interpretation of two photon-imaging experiments
Michael Meyer-Herrmann (Frankfurt/Main)
- 13:30 – 14:00 Set a thief to catch a thief: towards fully automated image analysis based on morphodynamic cell models
Jorge Carneiro (Lisbon)

14:10 – 15:10 Late Lunch and Industrial Talks

17:00 – 19:00 Opening Ceremony Main Congress ECI 2009