



UNIVERSITÀ  
DEGLI STUDI  
DI TORINO



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II UNITO-POLITO CANCER CONFERENCE

# IMAGING OF CANCER DYNAMICS

March 7–9, 2018 / TURIN

“La Cavallerizza Hall” - University of Torino  
Via G. Verdi,9 -Torino

## PROGRAM - March 7th

13.00–14.00 Registration (*La Cavallerizza Hall – Via G. Verdi, 9*)

### IMAGING OF CANCER METABOLISM

**14.00 – 14.45**

Kevin BRINDLE- Department of Biochemistry. University of Cambridge- Cambridge (UK)  
**Imaging tumour metabolism using hyperpolarized  $^{13}\text{C}$ -labelled cell substrates – From mouse to man.**

**14.45 – 15.30**

Clemens LOWIK-Department of Radiology. Leiden University- Leiden (NL)  
**New optical imaging tools to image cancer and their translation to the clinic**

**15.30– 16.15**

Vasilis NTZIACHRISTOS – Technical University of Munich- Munich (D)  
**New abilities in cancer imaging using multispectral optoacoustic tomography**

**16.15-16.30** short talk selected from the abstract

**16.30-17.00** break (*Aula Magna University of Torino – Via Verdi, 8*)

### SUPER-RESOLUTION APPROACHES

**17.00-17.45**

Alberto DIASPRO- Italian Institute of Technology- Genova (I)  
**Liquid tuneable microscopy to study chromatin-DNA**

**17.45-18.45- Keynote Lecture**

Zena WERB- Department of Anatomy, University of California-San Francisco, (CA, USA)  
**Insights into breast cancer metastasis using single cell technologies**

**18.45 – 20.30 Aperì-cena - POSTER DISCUSSION** (*La Cavallerizza Hall – Via G. Verdi, 9*)

**20.30** Faculty dinner



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### PROGRAM - March 8th

#### CANCER MOLECULAR DYNAMICS

**08.30 – 9.15**

Brent HOFFMAN- Department of Biomedical Engineering, Duke University -Durham, (NC-USA)  
**Visualizing Molecular Forces Across Specific Proteins in Living Cells**

**9.15-10.00**

Andrea PICCO- Department of Biochemistry, University of Geneva- Genève, (CH)  
**The *in vivo* architecture of the exocyst complex visualised by quantitative fluorescence microscopy.**

**10.00-10.45**

Olivier PERTZ- Institute of Cell Biology, University of Bern- Bern (CH)  
**Imaging MAPK signaling networks controlling cell fate decisions**

**10.45-11.00** short talk selected from the abstract

**11.00-11.30** Break (*Aula Magna University of Torino – Via Verdi, 8*)

#### DYNAMICS OF CANCER AND METASTASIZING CELLS-I

**11.30-12.15**

Erik SAHAI -The Francis Crick Institute-London (UK)  
**Imaging Therapy Failure**

**12.15 -13.00**

Gaudenz DANUSER- Department of Bioinformatics and Cell Biology , UT Southwestern Medical Center- Dallas (TX, USA)  
**Relating shape and prosurvival signals in cancer cells**

**13.00 –13.45:** Lunch (*Aula Magna University of Torino – Via Verdi, 8*)

**13.45 - 15.00:** poster discussion (*La Cavallerizza Hall – Via G. Verdi, 9*)



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## DYNAMICS OF CANCER AND METASTASIZING CELLS-I

**15.00-15.45**

Maria SOLEDAD SOSA- Icahn School of Medicine at Mount Sinai, New York (NY, USA)

**The Biology of Cancer Dormancy: Relevance to Metastasis**

**15.45-16.30**

Andrew EWALD- Department of Cell Biology, Johns Hopkins University- Baltimore (MD, USA)

**Beyond invasion: metastatic dynamics during systemic spread and organ colonization**

**16.30-17.15**

John CONDEELIS- Albert Einstein College of Medicine- New York (NY, USA)

**Large volume high resolution intravital imaging identifies the mechanisms of vascular invasion and metastatic seeding during breast cancer progression**

**17.15 - 17.45** Break (*Aula Magna University of Torino – Via Verdi, 8*)

**17.45 -18.30**

Ernst STELZER- Buchmann Institute for Molecular Life Sciences, Goethe University-Frankfurt (D)

**Investigating and analyzing dynamic three-dimensional multi-cellular clusters**

**18.30-19.15**

Peter FRIEDL- Institute for Molecular Life Sciences, Radboud University, Nijmegen (NL)

**Plasticity of Cancer Cell Invasion**

**19.15-19.30** Short talk selected from the abstract



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# IMAGING OF CANCER DYNAMICS

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### PROGRAM - March 9th

#### DYNAMICS OF CANCER-STROMA INTERACTIONS

**08.30 – 9.15**

Mikala EGEBLAD- Cold Spring Harbor Laboratory, Cold Spring Harbor, (NY, USA)

**Neutrophil Extracellular Traps Promote Breast Cancer Metastasis and Escape from Dormancy"**

**9.15 -10.00**

Mark VENDRELL- Queen's Medical Research Institute, University of Edinburgh- Edinburgh (UK)

**Dynamic Activatable Fluorophores**

**10.00-10.45**

Vincent CHAN - Department of Pathology, University of California at San Francisco- San Francisco (CA,USA) **Mapping the immune landscape of human tumor microenvironments using multi-scale immunoprofiling strategies**

**10.45 -11.15** Break (*Aula Magna University of Torino – Via Verdi, 8*)

#### IMAGING BASED MODELLING

**11.15-12.00**

Kristine SWANSON- Department of Neurosurgery, Mayo Clinic- Phoenix (AR,USA)

**12.00 -12.45**

Eiko ENDERLING – Integrated Mathematical Oncology, H.Lee Moffit Cancer Center, Tampa (FL,USA) **Local and systemic effects of cancer radiotherapy**

**12.45 - 13.30**

Kevin PAINTER-Department of Mathematics, Heriot-Watt University- Edinburgh (UK)  
Anisotropic models for glioma growth

**13,30 - 13.45** short talk selected from the abstract

**13.45** Lunch and end of the meeting (*Aula Magna University of Torino – Via Verdi, 8*)



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**Provider e Segreteria e Iscrizioni:**



**IKOS srl**

Provider ECM n. 1809

Via Legnano, 26 10128 – Torino

Tel. 011377717 Mail. [segreteria@ikossrl.com](mailto:segreteria@ikossrl.com)

Sito [www.ikoesecon.it](http://www.ikoesecon.it)