

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 ¹³C-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 METASTAZING 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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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 form 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

Sito www.ikoeseqm.it