



4th IFOM Symposium

Breaking Boundaries: Metabolism at the Cross-roads

November 14-15, 2019

IFOM Conference Room (Bldg. 9), Milan - Italy

IFOM Symposia

Program

Last Update: Oct 28, 2019

Thursday, November 14

09:00 - 09:30 *Registration* (Foyer Conference Room, Bldg. 9)

09:30 - 09:45 *Welcome address*

Session 1: Onco-Metabolism I

Chairman: Kristina Havas

09:45 - 10:15 **Sarah-Maria Fendt** - VIB-KU Leuven Center for Cancer Biology, BE
Tackling metastasis formation as a metabolic disease

10:15 - 10:45 **Angela Bachi** - IFOM, IT
Amyloids and lipid metabolism disbalance regulate metastatic melanoma

10:45 - 11:00 **Marina Bagnoli** - Fondazione IRCCS Istituto Nazionale dei Tumori, IT
Targeting choline metabolism reduces ovarian cancer cells aggressiveness and sensitizes cells to external hits

11:00 - 11:15 **Karin Ortmayr** - ETH Zurich, Institute of Molecular Systems Biology, CH
Metabolic adaptation supports entry and maintenance of cellular quiescence in cancer cells

11:15 - 11:45 *Coffee break*

Session 2: Immuno-Onco-Metabolism

Chairman: Sarah-Maria Fendt

11:45 - 12:15 **Naomi Taylor** - Pediatric Onc. Branch, National Cancer Institute, NIH, US and Univ. of Montpellier, IGMM/CNRS, FR
Metabolic regulation of T cell effector function: Perspectives for anti-tumor immunotherapy

12:15 - 12:45 **Stefano Casola** - IFOM, IT
B cell receptor regulation of lymphoma metabolism

12:45 - 13:00 **Simone Cardaci** - Fondazione Centro San Raffaele, IT
Mannose suppresses macrophage activation by opposing pro-inflammatory metabolic reprogramming

13:00 - 14:00 *Lunch*

Session 3: Mechano-Metabolism		<i>Chairman: Vincenzo Costanzo</i>
14:00 - 14:30	Victoria Sanz-Moreno - Barts Cancer Institute and Queen Mary University of London, UK Hitting cancer where it hurts: the cytoskeleton as a therapeutic target	
14:30 - 15:00	Giannino Del Sal - IFOM and University of Trieste, IT Interplay between mechano-signalling and metabolic pathways in cancer	
15:00 - 15:30	Stefano Piccolo - IFOM and University of Padua, IT Tumor mechanobiology	
15:30 - 16:00	<i>Coffee break</i> Poster set-up (Meeting Room 1+2, bldg. 9)	
Session 4: DNA/Chromatin Metabolism		<i>Chairman: Angela Bachi</i>
16:00 - 16:30	Vincenzo Costanzo - IFOM, IT DNA damage response protein ATM controls cellular metabolism under stress	
16:30 - 17:00	Jerry L. Workman - Stowers Institute for Medical Research, US Phosphorylation of histone H3 threonine 11 by the Tda1 kinase under nutritional stress requires the AMPK and CK2 kinases	
17:00 - 17:15	Christopher Bruhn - IFOM, IT The Rad53(CHK1/CHK2)-Spt21(NPAT) and Tel1(ATM) axes couple glucose tolerance to histone dosage and subtelomeric silencing	
17:15 - 17:30	Eleni Kafkia - EMBL, DE Uncovering metabolic pathways operating in the mammalian nucleus	
17:30 - 19:15	Poster Session (Meeting Room 1+2, bldg. 9)	

Friday, November 15

Session 5: Onco-Metabolism II		<i>Chairman: Verónica Torrano</i>
09:00 - 09:30	Saverio Tardito - Cancer Research UK Beatson Institute, UK Physiologically relevant cell culture conditions to study cancer metabolism	
09:30 - 10:00	Kristina Havas - IFOM, IT Exploring to Exploit; Uncovering Metabolic Dependencies in Breast Cancer	
10:00 - 10:15	Laura Brunelli - Istituto Ricerche Farmacologiche Mario Negri IRCCS, IT The metabolic plasticity of malignant primary cholangiocytes: perspective for target therapy	
10:15 - 10:30	Ferdinando Chiaradonna - University of Milano Bicocca, IT Hexosamine pathway inhibition overcomes pancreatic cancer resistance to gemcitabine through Unfolded Protein Response and EGFR-Akt pathway modulation	
10:30 - 10:45	Andrea Morandi - University of Florence, IT Reprogramming of amino acid transporters induces aspartate and glutamate dependency and drives endocrine resistance in breast cancer	
10:45 - 11:15	<i>Coffee break</i>	
Session 6: Onco-Metabolism III		<i>Chairman: Jerry L. Workman</i>
11:15 - 11:30	Arta Ajazi - IFOM, IT Vps34-Atg6(Beclin1) dictates eukaryotic cell sensitivity to replication stress by regulating essential amino acid uptake and protein translation	
11:30 - 12:00	Verónica Torrano - CiCbioGUNE and UPV/EHU, ES The cell and non-cell autonomous role of metabolism in prostate cancer aggressiveness	
12:00 - 12:30	Claudio Vernieri - National Cancer Institute of Milan (INT), IT Targeting cancer metabolism: facts, controversies and therapeutic perspectives	
12:30 - 12:45	<i>Closing remarks</i>	