



FASEB

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Science Research Conferences

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Cell Signaling in Cancer: from Mechanisms to Therapy

June 3 – 8, 2018

Steamboat Springs, Colorado

Organizers:

John Brognard
National Cancer Institute

Claus Jorgensen
CRUK Manchester Institute

Deborah Morrison
National Cancer Institute

Sunday, June 3, 2018

<u>Time</u>	<u>Title/Topic Event</u>	
4:00 p.m. – 9:00 p.m.	Conference Registration	
5:00 p.m. – 6:00 p.m.	Welcome Reception	
6:00 p.m. – 7:00 p.m.	DINNER	
7:15 p.m.	Opening remarks	
	Session 1: Novel Signaling Pathways	Chair: Claus Jorgensen, CRUK MI
7:30 p.m. – 8:00p.m.	<i>Targeting SHP2 in Cancer</i>	<i>Ben Neel, NYU</i>
8:00 p.m. – 8:30 p.m.	<i>Histidine kinases are new therapeutic targets in cancers.</i>	Tony Hunter, Salk
8:30 p.m. – 9:00 p.m.	<i>Allosteric regulation of protein kinase signaling.</i>	Susan Taylor, University of California San Diego
9:00 p.m. – 9:30 p.m.	<i>The tumor suppressing kinome and a novel driver kinase in head and neck cancer</i>	John Brognard, NIH

Monday, June 4, 2018

<u>Time</u>	<u>Title/Topic Event</u>	
7:30 a.m. – 9:00 a.m.	BREAKFAST	
7:30 a.m. – 12:00 p.m.	Conference Registration	
8:55 a.m.	Additional Opening Remarks	
9:00 a.m. – 12:00 p.m.	Session 2: Dynamics of Kinase Signaling in Cancer	Chair: Ben Neel, NYU
9:00 a.m. – 9:30 a.m.	<i>Substrate targeting by oncogenic Pim kinases</i>	Ben Turk, Yale
9:30 a.m. – 10:00 a.m.	<i>PHLPP Phosphatases in Opposing Kinase Signaling</i>	Alexandra Newton, UCSD
10:00 a.m. – 10:30 a.m.	<i>Group Photo and Coffee Break</i>	
10:30 a.m.	<i>AKT and SGK in cancer</i>	Dario Alessi, Dundee
11:00 a.m.	<i>Copper is required for oncogenic BRAF signalling and tumorigenesis.</i>	Donita Brady, Perleman
11:30 a.m.	Short talk: <i>Hierarchical organization endows the kinase domain with regulatory plasticity</i>	Pau Creixell, MIT
11:45 a.m.	Short talk: <i>MLK4 upregulation in breast cancer progression</i>	Anna Marusiak, Centre of New Technologies, University of Warsaw
12:00 p.m. – 1:30 p.m.	LUNCH	
	Free Afternoon	
3:30 p.m. – 6:00 p.m.	Poster Session/Short talks.	Chair: Gema Lorden
3.30 p.m. – 3.45 p.m.	Short talk: <i>Identification of metabolic vulnerabilities in human microvascular endothelial cells under hypoxic conditions</i>	Emily Cohen, Harvard Medical School
3.45 p.m. – 4.00 p.m.	Short talk: <i>PROTAC compounds inducing degradation of SGK3, a kinase implicated in PI3K/Akt inhibitor resistance in breast cancer</i>	Hannah Tovell, MRC Protein Phosphorylation and Ubiquitylation Unit, School of Life Sciences, University of Dundee
4:00 p.m. – 6:00 p.m.	<i>Poster viewing</i>	
6:00 p.m. – 7:00 p.m.	DINNER	
7:00 p.m. – 9:15 p.m.	Session 3: From structure to function in kinase signaling	Chair: Deborah Morrison, NIH/National Cancer Institute
7:00 p.m.	<i>A structure function approach to PKA signaling</i>	Ping Zhang, NIH
7:30 p.m.	<i>Local protein kinase A action proceeds through intact holoenzymes.</i>	John Scott, University of Washington
8:00 p.m. – 8:15 p.m.	<i>Coffee Break</i>	
8:15 p.m. – 9:15 p.m.	Keynote – Sponsored by CRUK Manchester Institute	Joan Brugge, Harvard Medical School

Tuesday, June 5, 2018

Time	Title/Topic Event	
7:30 a.m. – 9:00 a.m.	BREAKFAST	
7:30 a.m. – 12:00 p.m.	Conference Registration	
9:00 a.m. – 12:00 p.m.	Session 4: Protein Kinase C Signaling in Cancer	Chair: Tony Hunter, Salk Institute
9:00 a.m.	<i>Emergent cell cycle roles of a PKCε-AuroraB signaling module</i>	Peter Parker, Francis Crick Institute, CRUK
9:30 a.m.	<i>Ect2-Dependent rRNA Synthesis Is Required for KRAS-TRP53-Driven Lung Adenocarcinoma.</i>	Alan Fields, Mayo Clinic
10:00 a.m.	<i>Co-dependency of PKCδ and K-Ras in lung cancer</i>	Mary Reyland, University of Colorado
10:30 a.m – 10:45 a.m.	<i>Morning Coffee Break</i>	
10:45 a.m. – 12:00 p.m.	Session 5: Oncogenic Kinases I	Chair: Alexandra newton
10:45 a.m.	<i>Reprogramming of Metabolic Pathways by PI 3-Kinase and AKT signaling in Cancer</i>	Alex Toker, Harvard
11:15 a.m.	<i>EGF and NRG induce phosphorylation of HER3/ERBB3 by EGFR</i>	Natalia Jura, UCSF
11:45 p.m.	<i>Copper Metabolism Directly Influences Kinase Functionality to Modulate Signal Transduction in Cancer</i>	Tiffany Tsang, University of Pennsylvania
12:00 p.m. – 1:30 p.m.	LUNCH and Meet the Speakers/Expert	
	Free Afternoon	
3:30 p.m. – 6:00 p.m.	Poster Session and Short talks.	Chair: Pedro Torres-Ayuso
3.30 p.m. – 3.45 p.m.	<i>Microtubule-associated Protein 4 Guides Phosphatidylinositide 3-kinase Trafficking along Microtubules to Control PI3K/Akt Signaling</i>	Narendra Thapa, University of Wisconsin-Madison
3.45 p.m. – 4.00 p.m.	<i>Multiomic analysis of cellular transdifferentiation program reveals convergence of ERK2 and TGF-beta signaling</i>	Michal Nagiec, Weill Cornell Medicine
4:00 p.m. – 6:00 p.m.	<i>Poster Viewing</i>	
6:00 p.m. – 7:00 p.m.	DINNER	
7:00 p.m. – 8:15 p.m.	Session 4: Oncogenic kinases II	Chair: John Brognard NCI
7:00 p.m. – 7:30 p.m.	<i>Synthetic lethality of combined glutaminase and Hsp90 inhibition in mTORC1-driven tumor cells</i>	John Blenis, Weill Cornell

7:30 p.m. – 8:00 p.m.	<i>Mapping a TKI sensitivity Network</i>	Jorrit Ensenrik, University of Oslo
8:00 p.m. – 8:15 p.m.	Targeting PIM kinases to oppose hypoxia-mediated therapeutic resistance	Noel Warfel, University of Arizona
8:15 p.m. – 8:30 p.m.	<i>Break</i>	
8:30 p.m. – 9:45 p.m.	<i>WORKSHOP: Career Session</i>	Chair: Jorrit Ensenrik, University of Oslo
8:30 p.m. – 8:40 p.m.	Career Session – Working in Publishing	I-Mei Su, Cancer Discovery
8:40 p.m. – 8:50 p.m.	<i>Career session – Working in industry</i>	TBD
8:50 p.m. – 9:00 p.m.	<i>Career session – Working in academia</i>	Ping Zhang, NIH
9:00 p.m. – 9:10 p.m.	<i>Career session – Funding for cancer researchers</i>	Cancer Research UK, Claus Jorgensen
9:10 p.m. – 9:45 p.m.	Career Session Q and A with presenters	

Wednesday, June 6, 2018

Time a.m. – Time p.m.	Title/Topic Event	
7:30 a.m. – 9:00 a.m.	BREAKFAST	
7:30 a.m. – 12:00 p.m.	Conference Registration	
9:00 a.m. – 12:00 p.m.	Session 5: RAS Signaling In Cancer	Chair: John Scott, University of Washington
9:00 a.m.	<i>Searching for novel therapeutic approaches to Ras mutant cancers</i>	Julian Downward, Francis Crick Institute, CRUK
9:30 a.m.	<i>Developing therapies for Ras driven cancers</i>	Karen Cichowski, BWH Harvard
10:00 a.m.	Short talk: Targeted therapy and drug resistance in Triple-Negative Breast Cancer (TNBC)	Sima Lev, Weizmann Institute of Science
10:20 – 10:45 a.m.	<i>Morning Coffee Break</i>	
10:45 a.m.	<i>Inhibition of Ras/Raf/MEK/ERK Pathway Signaling by a Stress-Induced Phospho-Regulatory Circuit</i>	Deborah Morrison, NCI
11:15 a.m.	<i>Targeting kinases in the clinic</i>	Udayan Guha, NIH
11:45 a.m.	Short talk: Inhibition of RAS signaling and tumorigenesis through targeting vulnerabilities in RAS biochemistry	John O'Bryan, Medical University of South Carolina
12:00 p.m. – 1:30 p.m.	LUNCH and Meet the Speakers/Expert	
	Free Afternoon/ Group Activity	

6:00 p.m. – 7:00 p.m.	DINNER	
7:00 p.m. – 10:00 p.m.	Session 6: Therapeutic Targeting in Cell Signaling – RAS-RAF pathway	Chair: Joan Brugge, Harvard University
7:00 p.m.	<i>LOX regulates stromal cell content in cancer.</i>	Richard Marais, Cancer Research UK Manchester Institute
7:30 p.m.	<i>Targeting RAS-dependent Cancers</i>	Arvin Dar, Mount Sinai, NY
8:00 p.m – 8:15 p.m.	Short talk: <i>Structural reorganization of SHP2 by oncogenic mutations and its potential for reversal by allosteric inhibitors</i>	Jonathan La Rochelle, Harvard Medical School
8:15 – 8:30 p.m.	Coffee Break	
8:30 p.m. - 9:00 p.m.	Workshop: How to publish in Cancer Discovery	I-Mei Su, Editor, Cancer Discovery

Thursday, June 7, 2018

Time a.m. – Time p.m.	Title/Topic Event	
7:30 a.m. – 9:00 a.m.	BREAKFAST	
7:30 a.m. – 12:00 p.m.	Conference Registration	
9:00 a.m. – 12:00 p.m.	Session 7: Signaling in 4D	Chair: Sara Courtneidge, OHSU
9:00 a.m.	<i>Illuminating Biochemical Activity Architecture of the Cell</i>	Jin Zhang, UCSD
9:30 a.m.	<i>Dissecting signaling homeostasis through single cell proteomics</i>	Ken Lau, Vanderbilt
10:00 a.m.	Short talk: <i>The SHOC2 phosphatase complex as a therapeutic target for ERK pathway inhibition in RAS-driven tumors</i>	Greg Jones, University College London
10:15 a.m. – 10:45 a.m.	<i>Morning Coffee Break</i>	
10:45 a.m.	<i>Stochastic frequency matching of an incompletely penetrant ErbB onco-phenotype.</i>	Kevin Janes, UV
11:15 a.m.	<i>Heterocellular signaling networks in Pancreatic Cancer.</i>	Claus Jorgensen, Cancer Research UK Manchester Institute
11:45 a.m.	<i>FASEB business meeting</i>	
12:00 p.m. – 1:30 p.m.	LUNCH and Meet the Speakers/Expert	
	Free Afternoon	
3:00 p.m. – 6:00 p.m.	Session 8: Signaling in situ	Chair: Jin Zhang, UCSD
3:00 p.m. – 3:30 p.m.	<i>SRC enhances MYC expression in breast cancer</i>	Sara Courtneidge, OHSU
3:30 p.m. – 4:00 p.m.	<i>Functional genomics in cell signaling</i>	Gordon Mills, MD Anderson

4:00 p.m. – 4:15 p.m.	Short talk: <i>PTEN protein phosphatase regulates cellular energy metabolism and survival via PDHK1</i>	Nilanjana Chatterjee, UCSF
4:15 p.m. – 4:45 p.m.	<i>Coffee break</i>	
4:45 p.m – 5:15 p.m..	<i>Identification and evaluation of clinically significant prostate cancer</i>	Esther Baena, Cancer Research UK Manchester Institute
5:15 p.m. – 5:45 p.m.	<i>Importance of BRD2-4 isoform switching</i>	Greg Findlay, Dundee
5:45 – 6:00 p.m.	Short talk: <i>SORLA-driven endosomal trafficking regulates the oncogenic fitness of HER2</i>	Pranshu Sahgal, Turku Centre for Biotechnology, University of Turku and Åbo Akademi University
6:00 p.m. – 7:00 p.m.	DINNER	
7:00 p.m. –	<i>Networking</i>	

Friday, June 8, 2018

Time a.m. – Time p.m.	Title/Topic Event	
7:30 a.m. – 9:00 a.m.	BREAKFAST and DEPARTURES	

END OF CONFERENCE

For additional information contact:
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