Biology and Pathobiology of Krüppel-like Factors (KLFs)

August 3-8, 2014

Base Village Conference Center

Snowmass Village, Colorado

Co-Organizers:

Jonathan Katz
University of Pennsylvania
Philadelphia, PA

Mukesh Jain
Case Western Reserve University
Cleveland, Ohio

Merlin Crossley
University of New South Wales
Sydney, Australia

Toru Suzuki
University of Tokyo
Tokyo, Japan

Sunday August 3, 2014	
4:00PM – 9:00PM	Conference Registration
6:00PM – 7:00 PM	FASEB Opening Reception (BVCC)
7:00PM – 8:30 PM	Dinner (Base Camp Grill)
8:30PM – 9:30PM	Edward Morrisey, University of Pennsylvania *Non-coding RNAs in cardiopulmonary development and regeneration*
Monday August 4, 2014	
7:30AM – 8:30AM	Breakfast (Base Camp Grill)
Session 1:	**Krüppel-like factors in development and regeneration**

8:30AM – 12:15PM	Edward Morrisey, University of Pennsylvania
8:30AM – 8:45AM	Welcome from FASEB
8:45AM – 9:15AM	Andrew Perkins, Mater Medical Research Institute *Breaking the KLF self-renewal network to permit ES cell differentiation*
9:15AM - 9:45AM	Wange Lu, Keck School of Medicine of USC *Regulation of long-range chromosome interaction by Klf4 in pluripotent stem cells*
9:45AM –10:15AM	Masatsuga Ema, University of Tsukuba *The Role of Klf5 in Pluripotent Stem Cells and Reprograming Process*
10:15AM – 10:45 AM	Robert Denver, University of Michigan *Krüppel-like factors are effectors of nuclear receptor signaling*
10:45AM – 11:15AM	Group photo & FASEB Sponsored Coffee Break
11:15AM – 11:45AM	Chun-Li Zhang, University of Texas - Southwestern *KLF4 function in neural stem cells and regeneration*
11:45AM – 12:15PM	Murray Blackmore, Marquette University *KLF transcription factors as therapeutic targets for nervous system injury*
12:15PM – 12:30PM	Jia Chi Yeo, Genome Institute of Singapore *Klf proteins and mouse naïve pluripotency*
12:30PM – 1:30PM	Lunch (Base Camp Grill)
1:30PM – 3:30PM	**Career Development Session (BVCC)** C. William Balke, University of California, San Francisco *Research Career Development for Junior Investigators*
	Free Afternoon
4:00PM – 6:00PM	**Poster Session 1 (BVCC)**
6:00PM – 7:00PM	Dinner (Base Camp Grill)
Session 2: **7:00PM – 9:30PM**	**Krüppel-like factors in cardiovascular physiology and pathophysiology** (BVCC) Mukesh Jain, Case Western Reserve University
7:00PM - 7:30PM	Anne Hamik, Case Western Reserve University *KLF4 and Angiogenesis*
7:30PM – 8:00PM	Toru Suzuki, Name, University of Tokyo *Role of KLF6 in cardiovascular disease*
8:00PM – 8:15PM	Short Talk Selected From Submitted Abstracts

8:15PM – 8:30PM	Break
8:30PM – 9:00PM	Lalitha Nayak, Case Western Reserve University *KLF2 is a critical determinant of vascular thrombosis*
9:00PM – 9:30PM	Katsuhito Fujiu, University of Tokyo *Interorgan communication by KLF5 during stress responses in heart*
Tuesday August 5, 2014	
7:30AM – 8:30AM	Breakfast (Base Camp Grill)
Session 3 **8:30AM – 12:15PM**	**Structure and function studies of the KLFs and related factors (BVCC)**Raul Urrutia, Mayo Clinic
8:30AM – 9:00AM	Nick Grishin, University of Texas - Southwestern *Evolution of KLFs and associated domains*
9:00AM - 9:30AM	James Bieker, Mt. Sinai School of Medicine *Control of erythroid chromatin structure and transcription by EKLF/KLF1*
9:30AM –10:00AM	Sarah Millar, University of Pennsylvania *Molecular coordination of protein and lipid synthesis in epidermal barrier development*
10:00AM – 10:30AM	Gwen Lomberk, Mayo Clinic *Single and combinatorial chromatin coupling events regulate KLF-mediated metabolic pathways*
10:30AM – 11:00AM	FASEB Sponsored Coffee Break
11:00AM – 11:30AM	Guntram Suske, Philipps-University Marburg *Genome-wide recruitment of Sp transcription factors to chromatin – principles and mechanisms*
11:30AM – 12:00PM	Sjaak Philipsen, Erasmus MC, Netherlands *Redundant roles of Sp1 and Sp3 in hematopoiesis*
12:00PM – 12:15PM	Terry Yamaguchi, NCI-Frederick *Role of Sp5 and Sp8 transcription factors in the activation of Wnt/β-catenin target genes*
12:15PM – 12:30PM	Yizeng Yang, University of Pennsylvania *Regulation of p53 function by KLF5*
12:30PM – 1:30PM	Lunch (Base Camp Grill)
1:30PM – 2:30PM	**Icebreaker/Meet the Expert: Speed "Dating" (BVCC)**
	Free Afternoon
4:00PM – 6:00PM	**Poster Session 2 (BVCC)**

6:00PM – 7:00PM	Dinner (Base Camp Grill)
Session 4: **7:00PM – 9:45PM**	**Krüppel-like factors in metabolic control and disease (BVCC)** Ryozo Nagai, University of Tokyo
7:00PM - 7:30PM	Xudong Liao, Case Western Reserve University *KLF4 coordinates cardiomyocyte metabolism and mitochondrial function*
7:30PM – 8:00PM	Jin-Kun Wen, Hebei Medical University *The role of KLF4 in regulating VSMCs proliferation and differentiation-related receptors*
8:00PM – 8:30PM	Konstantinos Drosatos, Columbia University *KLF5: A master transcriptional regulator of cardiac fatty acid metabolism and obesity*
8:30PM – 8:45PM	Break
8:45PM – 9:15PM	Mona Nemer, University of Ottawa *Regulation and mechanism of action of KLF13 in the heart*
9:15PM – 9:45PM	Saptarsi Haldar, Case Western Reserve University *KLF15 and skeletal muscle plasticity*
Wednesday August 6, 2014	
7:30AM – 8:30AM	Breakfast (Base Camp Grill)
Session 5 **8:30AM – 12:15PM**	**Krüppel-like factors in differentiation and disease pathogenesis (BVCC)** Jerry Lingrel, University of Cincinnati
8:30AM – 9:00AM	Huajing Wan, Sichuan University *Roles of KLF5 in epithelial cell polarity*
9:00AM - 9:30AM	Mark Kahn, University of Pennsylvania *Connections between Klf2 and the cerebral cavernous malformation pathway*
9:30AM –10:00AM	G. Brandon Atkins, Case Western Reserve University *The Role of KLF2 in Cerebrovascular Disease*
10:00AM – 10:30AM	Marie-Pier Tetreault, University of Pennsylvania *Klf4 controls esophageal epithelial cell migration and stratification*
10:30AM – 11:00AM	FASEB Sponsored Coffee Break
11:00AM – 11:30AM	Joyce Lloyd, Virginia Commonwealth University *Roles of KLF1 and KLF2 in erythropoiesis*
11:30AM – 12:00PM	Merlin Crossley, University of New South Wales *How do KLF family zinc finger proteins select their target genes in vivo?*

12:00PM – 12:15PM	Kevin Gillinder, Mater Medical Research Institute *Mutations in the zinc finger domain of human and mouse KLF1 cause congenital dyserythropoietic anemia (CDA) via promiscuous DNA binding and ectopic target gene expression*
12:15PM – 12:45PM	Business Meeting
12:45PM – 1:45PM	Lunch (Base Camp Grill)
	Free Afternoon
6:00PM – 7:00PM	Dinner (Base Camp Grill)
Session 6: **7:00PM – 9:45PM**	**Krüppel-like factors in inflammatory and immune responses (BVCC)**Ichiro Manabe, University of Tokyo
7:00PM - 7:30PM	Stephen Jameson, University of Minnesota *Role of KLFs in lymphocyte localization and function*
7:30PM – 8:00PM	Gary Owens, University of Virginia *KLF4-dependent transitions of smooth muscle cells to a macrophage-like state within advanced atherosclerotic lesions*
8:00PM – 8:30PM	Navtej Buttar, Mayo Clinic *KLF11 disrupts pathways linking inflammation to cancer*
8:30PM – 8:45PM	Break
8:45PM – 9:15PM	Ganapati Mahabaleshwar, Case Western Reserve University *Role myeloid KLFs in regulation of inflammation*
9:15PM – 9:45PM	William Faubion, Mayo Clinic *KLF family proteins orchestrate T regulatory cell phenotype and immune mediated disease*
Thursday August 7, 2014	
7:30AM – 8:30AM	Breakfast (Base Camp Grill)
Session 7 **8:30AM – 12:15PM**	**Krüppel-like factors in tumor biology (BVCC)** Vincent Yang, Stony Brook University
8:30AM – 9:00AM	Keping Xie, MD Anderson Cancer Center *KLF4 in pancreatic Cancer*
9:00AM - 9:30AM	Ceshi Chen, Kunming Institute of Zoology, Chinese Academy of Sciences *Targeting KLF5 in triple negative breast cancer*
9:30AM –10:00AM	Goutham Narla, Case Western Reserve University *Drugging the undruggable: small molecule activators of tumor suppressor genes*

10:00AM – 10:15AM	Short Talk Selected From Submitted Abstracts
10:15AM – 10:45AM	FASEB Sponsored Coffee Break
10:45AM – 11:15AM	Agnieszka Bialkowska, Stony Brook University *Krüppel-like factor 5's roles in the physiology and pathobiology of adult intestinal epithelium*
11:15AM – 11:45AM	Frank Simmen, University of Arkansas for Medical Sciences, Organization *KLF9 in GI Cancer and Liver Metabolism*
11:45AM – 12:15PM	Amr Ghaleb, Stony Brook University *Critical roles of Krüppel-like factor 4 in the intestinal epithelium*
12:15PM – 1:15PM	Lunch (Base Camp Grill)
	Free Afternoon
1:00PM – 6:00PM	**Optional Organized Group Activity**
6:00PM – 7:00PM	Dinner (Base Camp Grill)
Session 8: **7:00PM – 9:45PM**	**Krüppel-like factors and cell signaling (BVCC)** Jonathan Katz, University of Pennsylvania
7:00PM - 7:30PM	Anthony Gerber, National Jewish Health *The GR:KLF15 feed forward circuit: mechanisms and implications*
7:30PM – 8:00PM	John Hawse, Mayo Clinic *Roles for KLF10 in mediating Wnt signaling in bone*
8:00PM – 8:30PM	Sandeep Mallipattu, Stony Brook University *Pathobiology of Krüppel-like factors 6 and 15 in the kidney*
8:30PM – 8:45PM	Break
8:45PM – 9:30PM	Mukesh Jain, Case Western Reserve University and Raul Urrutia, Mayo Clinic Wrapping up the KLFs
Friday August 8, 2014	
7:30AM – 8:30AM	Breakfast (Base Camp Grill)
8:30AM	Departures

END OF CONFERENCE

For additional information contact:
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