CONFERENCE PROGRAM

DAY 1 TUESDAY 29 MAY

15:30 Registration

17:00 Introduction

Matthew Cockerill, BioMed Central

17:15 **Keynote** – Leptin and the physiological circuitry of weight control

Jeffrey Friedman, The Rockefeller University, USA

18:00-20:00 Poster Session 1 and Welcome Reception (Odd-numbered posters to be presented)

DAY 2 WEDNESDAY 30 MAY

8:30-10:30	Session 1. Adipogenesis and insulin resistance. Chair: Richard Bergman
08:30	Keynote – Irisin and the therapeutic benefits of exercise Bruce Spiegelman, Harvard Medical School and Dana-Farber Cancer Institute, USA
09:15	Novel mechanisms by which fat cells regulate systemic insulin sensitivity and diabetes risk Barbara Kahn, Harvard Medical School and Beth Israel Deaconess Hospital, USA
09:45	Obesity, insulin resistance, and the pathway to type 2 diabetes Richard Bergman, Cedars-Sinai Medical Center, Los Angeles, USA
10:15	Selected talk - Effects of serotonin on skeletal muscle growth Suchismita Chandran, National Institute of Diabetes and Digestive and Kidney Diseases, NIH, Bethesda, MD, USA

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10:30-11:00	Coffee
11:00-12:00	Session 2. Metabolism and mechanism. Chair: Christopher Newgard
11:00	Regulation of nutrient metabolism by nuclear receptor/FGF signaling pathways David Mangelsdorf, University of Texas Southwestern Medical Center, USA
11:30	Finding mechanism from metabolic signatures of disease Christopher Newgard, Duke University Medical Center, USA
12:00-13:00	Lunch
13:00-15:15	Session 3. Metabolism and the cancer cell. Chair: Michael Pollak
13:00	Keynote – Beyond insulin: rethinking cellular metabolism Craig Thompson, Memorial Sloan-Kettering Cancer Center, USA
13:45	Energy input and cancer risk at the cellular and whole organism level: modification by metformin Michael Pollak, McGill University and Jewish General Hospital, Canada
14:15	Growth control and metabolism David Sabatini, Massachusetts Institute of Technology, USA
14:45	Selected talk - Amplification of phosphoglycerate dehydrogenase diverts glycolytic flux and contributes to oncogenesis

Jason W Locasale, Harvard Medical School and Beth Israel Deaconess Hospital, USA

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DAY 2 WEDNESDAY 30 MAY (continued)

15:00 Selected talk - MCT4 is an important determinant for the growth of highly glycolytic and aggressive

malignancies

Kezi Unsal-Kacmaz, Pfizer Worldwide Research and Development, Pearl River NY, USA

15:15-15:45	Coffee
15:45-17:00	Session 4. Linking diabetes and cancer. Chair: Lewis Cantley
15:45	PI 3-kinase and disease Lewis Cantley, Harvard Medical School and Beth Israel Deaconess Hospital, USA
16:15	AMPK - a nutrient and energy sensor with roles in diabetes, cancer and viral infection Grahame Hardie, University of Dundee, UK
16:45	Selected talk - Loss of RBF1 induces changes to central carbon metabolism and hypersensitizes animals to starvation Brandon Nicolay, Massachusetts General Hospital Cancer Center, Harvard Medical School, USA
17:00-17:15	Sponsored technical presentation - Real-time analysis of substrate oxidation, glycolytic flux and mitochondrial oxidative phosphorylation of cells in a microplate with the XF Analyzer Min Wu, PhD, Director Biology, Seahorse Bioscience
17:15-19:00	Poster Session 2 with pre-dinner drinks (Even-numbered posters to be presented)
19:00	Keynote – Surviving starvation: essential role of the ghrelin-growth hormone axis Joseph L Goldstein, University of Texas Southwestern Medical Center, USA

Conference dinner

DAY 3 THURSDAY 31 MAY

8:30-10:45	Session 5. Epigenetics, metabolism and aging. Chair: Leonard Guarente
8:30	Sirtuins, aging and metabolism Leonard Guarente, Massachusetts Institute of Technology, USA
9:00	Sirtuin activators as interventions for healthy aging Rafael de Cabo, National Institutes on Aging, NIH, USA
9:30	Regulation of metabolism by sirtuins Marcia Haigis, Harvard Medical School, USA
10:00	Up, down, and all around the epigenomic regulation of metabolism Mitchell Lazar, University of Pennsylvania, USA
10:30	The histone deacetylase SIRT6, a critical modulator of metabolism and tumorigenesis Raul Mostoslavsky, Massachusetts General Hospital and Harvard Medical School, USA.
10:45-11:15	Coffee

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DAY 3 THURSDAY 31 MAY (continued)

11:15-12:30	Session 6. Dietary factors in metabolic diseases. Chair: Gary Taubes
11:15	Does fructose play a role in metabolic disorders? Luc Tappy, University of Lausanne, Switzerland
11:45	Carbohydrate restriction uniquely benefits metabolic syndrome and saturated fat metabolism Jeff Volek, University of Connecticut, USA
12:15	TBA Eric Westman, Duke University Medical Center, USA
12:30-13:30	Lunch
13:30-15:00	Session 7. Obesity, metabolism and cancer: lessons from transdisciplinary research. Chair: Stephen Hursting
13:30-15:00 13:30	
	Chair: Stephen Hursting Energy balance, metabolism and cancer: mechanistic insights from transdisciplinary studies
13:30	Chair: Stephen Hursting Energy balance, metabolism and cancer: mechanistic insights from transdisciplinary studies Stephen Hursting, University of Texas and MD Anderson Cancer Center, USA Excess body weight, diabetes and cancer: epidemiologic evidence implicating hormonal and metabolic mechanisms

15:00-15:15 Coffee

15:15-16:30	Panel discussion:
	'What is the obesity-cancer connection? And what can we do about it?' Sponsored by Cancer & Metabolism, Editors-in-Chief: Chi Van Dang & Michael Pollak
	Speakers plus: Gregory Petsko, Brandeis University, USA – Chair; Gary Taubes, Robert Wood Johnson Foundation Independent Investigator in Health Policy Research at the U.C. Berkeley School of Public Health
16:20	Final remarks – Gregory Petsko
16:30	Close of meeting