

The Weizmann Metabolic Forum Hosts: Weizmann-Australia Symposium on Metabolic Disorders

May 12-13th, 2013

The David Lopatie conference centre
Weizmann Institute of Science



Sunday, May 12

08:00 **Welcome coffee**

8:45 **Welcoming words:**

Prof. Israel Bar-Joseph, Vice President for Resource Development.
Opening remarks: Prof. Michal Neeman, Dean, Faculty of Biology.
Introducing Weizmann – Australia Making Connections: Prof. Iain Clarke and Prof. Alon Chen

CNS control of energy balance

Chair: Prof. Yehiel Zick

9:15 Keynote speaker: **Prof. Hans Haring**, Tübingen University
The role of brain insulin resistance and fatty liver in the pathogenesis of type 2 diabetes

10:00 **Dr. Zane Andrews**, Monash University
The role of neural carnitine metabolism in energy balance

10:30 Short talk: **Dr. Yael Kuperman**, Weizmann Institute of Science
Postnatal ablation of POMC neurons induces an obese phenotype characterized by decreased food intake and enhanced anxiety-like behavior

10:45 **Coffee Break**

Mechanisms of metabolic dysfunction

Chair: Prof. Iain Clarke

11:15 **Dr. Belinda Henry**, Monash University
The thermogenic switch: functional differences between fat and muscle thermogenesis

11:45 **Prof. Mark Sleeman**, Monash University
TGF- β 1/Smad signaling in diet induced obesity and type 2 diabetes

12:15 Short talk: **Dr. Avigdor Leftin**, Weizmann Institute of Science
Hyperpolarized ^{13}C tracer dynamics contrasts anabolic and catabolic metabolic fates in vivo

12:30 **Lunch break**

Animal models for the study of body weight and energy balance

Chair: Prof. George Fink

14:00 Keynote speaker, **Prof. Margaret Morris**, University of New South Wales
Early life programming of body weight: insight from rodent models

14:45 **Prof. Brian Oldfield**, Monash University
"High satiety": insights from an animal model of bariatric surgery

15:15 Short talk: **Dr. Janna Blechman**, Weizmann Institute of Science
Linking energy balance to anorexigenic neuropeptide synthesis using the zebrafish model

15:30 **Coffee break**

Novel pathways in metabolism

Chair: Prof. Gil Levkowitz

16:00 **Dr. Ayelet Erez**, Weizmann Institute of Science
Metabolic enzymes involvement in systemic diseases: ASL and hypertension as a model

16:30 Short talk: **Lital Bentovim**, Weizmann Institute of Science
Tough decisions under tough conditions: the life of chondrocytes in the hypoxic cartilage

ORGANIZING COMMITTEE:

**Dr. Gad Asher, Prof. Alon Chen, Prof. Atan Gross,
Dr. Yael Kuperman, Prof. Michael Walker**

Admission is free, yet
registration is required due to
space limitations

[Click here to register](#)



Monday, May 13

8:30 **Welcome coffee**

Circadian rhythms and metabolic disorders

Chair: Prof. Atan Gross

9:00 Keynote speaker: **Prof. Joseph Bass**, Northwestern University
Circadian regulation from behavior to mitochondrial metabolism

9:45 **Prof. Oren Froy**, The Hebrew University of Jerusalem
Disruption and resetting of circadian metabolism

10:15 Short talk: **Dr. Yaarit Adamovich**, Weizmann Institute of Science
Circadian clocks and lipid homeostasis

10:30 **Coffee break**

Systems analyses of metabolism

Chair: Prof. Ari Elson

11:00 **Prof. Eytan Rupp**, Tel Aviv University
Towards personalized medicine and drugs with fewer side effects: a metabolic modeling perspective

11:30 **Prof. Matt Watt**, Monash University
Using 'omics' approaches to understand metabolic cross-talk

12:00 Short talk: **Dr. Maria Maryanovich**, Weizmann Institute of Science
A novel mitochondrial pathway that regulates stem cells in the bone marrow

12:15 **Lunch break with poster session**

MicroRNAs and metabolic disease

Chair: Prof. Alon Chen

13:45 Keynote speaker: **Prof. Jens Bruening**, MPI for Neurological Research and University of Cologne
Role of altered hepatic miRNA-expression in obesity-associated insulin resistance

14:30 **Dr. Eran Hornstein**, Weizmann Institute of Science
Regulation of beta-cell identity by microRNAs

15:00 Short talk: **Amitai Mandelbaum**, Weizmann Institute of Science
MicroRNA-17-92 role in beta cell

15:15 **Coffee break**

Islet physiology and pathophysiology

Chair: Prof. Michael Walker

15:45 **Prof. Yuval Dor**, The Hebrew University of Jerusalem
Glucose regulation of pancreatic beta cell fate

16:15 Short talk: **Anna Veprik**, Weizmann Institute of Science
Regulation and function of GPR41, a short chain fatty acid receptor

16:30 Short talk: **Dr. Sigalit Boura-Halfon**, Weizmann Institute of Science
A protective role for the 'neglected' human transcription factor, hairy and enhancer of split 4, in cytokine-induced cell death

16:45 **Closing remarks:**
Prof. Alon Chen and Prof. Iain Clarke