

ACCDiS International Theoretical & Practical Course “Metabolic Signaling and Chronic Disease”

Santiago, Chile
5 October-9 October 2015

Monday 5 October

09:00-9:30 h. Student's registration

Course. Section 1: “General Metabolism”

Coordinator: Dr. Mario Chiong

09:45-10:00 h. Opening Remarks, **Dr. Lorena García y Dr. Mario Chiong**

10:00-11:10 h. Energy Metabolism **Dr. Mario Chiong**

11:10-11:40 h. *Coffee break*

11:40-12:50 h. Integration of Metabolism **Dr. Rodrigo Troncoso**

12:50-15:00 h. *Lunch*

15:00-16:10 h. Metabolic Cell Signaling **Dr. Valentina Parra**

16:10-17:20 h. Theme assignment



ICGEB

International Centre for Genetic
Engineering and Biotechnology



Tuesday 6 October

Course. Section 2: Mitochondria-Autophagy

Coordinator: Dr. Lorena García

09:00-10:15 h. Mitochondrial metabolism **Dr. J. César Cárdenas**

10:15-10:45 h. *Coffee break*

10:45-12:00 h. Reactive Species in Mitochondrial Function **Dr. Laura Castro**

12:00-13:15 h. Mitochondrial Metabolism in Aging **Dr. Alicia Kowaltoski**

13:15-14:15 h. *Lunch*

14:15-15:30 h. Metabolism and Autophagy **Dr. Alfredo Criollo**

15:30-17:00 h. Journal Club 1. **Dr. Lorena García and Dr. Mario Chiong**

Wednesday 7 October

Course. Section 3: Metabolic diseases

Coordinators: Dr. Alfredo Criollo and Dr. Rodrigo Troncoso

09:00-10:15 h. Uncoupling Obesity from Insulin Resistance via Fatty Acid Binding Proteins. **Dr. David A. Bernlohr**

10:15-10:45 h. *Coffee break*

10:45-12:00 h. Adipose Tissue and Obesity. **Dr. Mariana Cifuentes**

12:00-13:15 h. Atherosclerosis. **Dr. Lorena García**

13:15-14:15 h. *Lunch*

14:15-15:30 h. Metabolism in Heart Failure. **Dr. Hugo Verdejo**

15:30-17:00 h. The innate immunity component in obesity-induced insulin resistance. **Dr. Amira Klip**



Thursday 8 October

Symposium

Chairs: Dr. Sergio Lavandero and Dr. Andrew Quest

09:00-09:45 h. *"Calcium Sensing Receptor and Adipose Tissue Dysfunction in Obesity"*. **Dr. Mariana Cifuentes**

09:45-10:30 h. *"Effect of High Fat Diet Consumption in Metabolic Health"*. **Dr. Eugenia Morselli**

10:30-11:00 h. *Coffee break*

11:00-11:45 h. *"Mitochondrial Aconitase an Oxidative Stress Target and Beyond"*
Dr. Laura Castro

11:45-12:30 h. *"Caloric Restriction and its Impact on Energy Metabolism in Different Cell Types"* **Dr. Alicia Kowaltowski**

12:30-14:00 h. *Lunch*

14:00-14:45 h. *"Oxidative Stress and Insulin Resistance"* **Dr. David A. Bernlohr**

14:45-15:30 h. *"How insulin signals engage structural cellular elements to mobilize glucose transporter vesicles"* **Dr. Amira Klip**

15:30-16:15 h. *"Modulation of Pathological Cardiac Hypertrophy by Insulin Signaling"* **Dr. E. Dale Abel**



ICGEB

International Centre for Genetic
Engineering and Biotechnology



Friday 9 October

Course. Section 4: Chronic Diseases

Coordinator: Dr. Valentina Parra

09:00-09:30 h. Overview of Chronic Diseases in Chile. **Dr. Catterina Ferreccio**

09:30-10:40 h. Diabetic Cardiomyopathy. **Dr. Mario Chiong**

10:40-11:10 h. *Coffee break*

11:10-12:20 h. Metabolic Signaling in Cancer. **Dr. César Cárdenas**

12:20-13:30 h. Cardiac Metabolism, Mitochondrial Dysfunction and Diabetic Cardiomyopathy. **Dr. E. Dale Abel**

13:30-14:30 h. *Lunch*

14:30-16:00 h. Journal Club 2. **Dr. Valentina Parra y Dr. Rodrigo Troncoso**

16:00-16:30 h. Wrap-up & closing ceremony. **Dr. Andrew Quest**