

## PROGRAM

### LOCAL ORGANISING COMMITTEE

Denis BLONDIN, André CARPENTIER, François HAMAN, Denis RICHARD, Angelo TREMBLAY

### THURSDAY OCTOBER 22<sup>th</sup>

17:30 — 19:30

#### WELCOME RECEPTION

Dinner on your own in Québec City

### FRIDAY OCTOBER 23<sup>th</sup>

#### MORNING

08:00 — 08:15

#### WELCOME TO QUÉBEC CITY!

##### Contribution of Québec to Field of Energy Metabolism

*Denis RICHARD* — Canada

08:15 — 08:30

#### WELCOME TO RACMEM 2020

##### Contribution of RACMEM to Energy Metabolism

*Ed MELANSON* — USA

08:30 — 10:30

#### PET/CT, MRI AND ISOTOPIC TRACERS IN ENERGY METABOLISM AND HOMEOSTASIS

Chairs: *TBD*

##### MR Spectroscopy and Imaging of Fat Deposition in Organs

*Vera SCHRAUWEN-HINDERLING* — Netherlands

##### Using MRI and Stable Isotope Tracers to Image and Phenotype Liver Metabolism

*Leanne HODSON* — United Kingdom

##### fMRI for Assessing the Brain Contribution to Energy Homeostasis

*Alain DAGHER* — Canada

##### Emerging Technologies to Image Tissue Metabolism

*Kevin K BRINDLE* — United Kingdom

10:30 — 11:00

PAUSE / SPONSOR EXHIBITION

11:00 — 11:45

**THE SHAPES (AND MOVES) OF TRACERS:  
APPLYING POSITRON EMISSION TOMOGRAPHY  
TO ENERGY METABOLISM**

*André CARPENTIER* — Canada  
Chair: *Denis RICHARD*

12:00 — 13:00

LUNCH / SPONSOR EXHIBITION

## AFTERNOON

13:00 — 15:00

**ENVIRONMENT CONDITIONS AND  
ENERGY METABOLISM/HOMEOSTASIS**

Chairs: *TBD*

**Modifying Thermogenic Pathways in Cold Exposed**

*François HAMAN* — Canada

**Sleep, Circadian Rhythmicity and its Impact on Energy Metabolism**

*Eve van CAUTER* — USA

**Vulnerability to Heat-Related Illnesses in Older Adults and Individuals with Chronic Diseases – A Calorimetric Perspective**

*Glen KENNY* — Canada

**Energy Metabolism in Severe Exercise**

*Guy PLASQUI* — Netherlands

15:00 — 15:30

PAUSE

15:30 — 17:30

**ENERGY METABOLISM/HOMEOSTASIS IN  
MOTHERS, CHILDREN AND ADOLESCENTS**

Chairs: *TBD*

**Energy Homeostasis in Pregnant and Postpartum Women**

*Leanne M REDMAN* — USA

**Energy Expenditure in Women: The Effects of Oestrogens and Exercise**

*Ed MELANSON* — USA

**Energy Homeostasis in Children and Adolescents**

*Shigeho TANAKA* — Japan

**Investigation of NALFD/NASH in Children and Adolescents**

*Melanie CREE-GREENE* — USA

17:30 — 19:00

COCKTAIL / POSTER SESSION 1 / SPONSOR EXHIBITION

## EVENING

Dinner on your own in Québec City

**SATURDAY OCTOBER 24<sup>th</sup>**

## MORNING

### 08:00— 10:00 HEAT-PRODUCING ORGANS, ORGANITES AND PATHWAYS

Chairs: *TBD*

#### **Thrifty Mechanisms that Drive the Recovery of the Body's Fat Reserves: From a Multi-Organ Perspective**

*Abdul DULLOO* — Switzerland

#### **Examining Futile Cycles as Recrutable Forms of Heat Production – Is it Fruitless?**

*Denis BLONDIN* — Canada

#### **Regulatory Thermogenesis: UCP1 and Beyond**

*Lawrence KAZAK* — Canada

#### **mTOR System in Brown Fat Thermogenesis**

*Mathieu LAPLANTE* — Canada

### 10:00 — 10:30 PAUSE / SPONSOR EXHIBITION

### 10:30 — 12:00 SHORT ORAL COMMUNICATIONS 1

*6 Presentations (15 min each)*

### 12:00 — 13:00 LUNCH / SPONSOR EXHIBITION

## AFTERNOON

### 13:00 — 15:00 ENERGY METABOLISM/HOMEOSTASIS IN OBESE INDIVIDUALS

Chairs: *TBD*

#### **Thermogenic Flexibility in Response to Weight Loss and Regain**

*Paul S MACLEAN* — USA

#### **Permanence of Thermogenic Changes Induced by Weight Loss in Obese Individuals**

*Eric RAVUSSIN* — USA

#### **The Effects of Variations in Energy Expenditure on Appetite Control**

*Eric DOUCET* — Canada

#### **Low Capacity to Oxidize Fat and Body Weight**

*François PÉRONNET* — Canada

### 15:00 — 15:30 PAUSE / SPONSOR EXHIBITION

### 15:30 — 17:00 SHORT ORAL COMMUNICATIONS 2

*6 Presentations (15 min each)*

17:00 — 18:00

Update on Doubly-Labelled Water

Chair John R SPEAKMAN

**Total Energy Expenditure Through the Life Course**

Klaas WESTERTERP (on behalf of the IAEA DLW database group) — Netherlands

**The Relation Between Water Turnover and Energy Expenditure**

Yosuke YAMADA (on behalf of the IAEA DLW database group) — Japan

**Energy Demands of Traditional Lifestyles**

Herman PONTZER (on behalf of the IAEA DLW database group) — USA

18:00 — 19:30

COCKTAIL / POSTER SESSION 2 / SPONSOR EXHIBITION

EVENING

19:30 — 22:30

BANQUET

SUNDAY OCTOBER 25<sup>th</sup>

MORNING

08:00— 09:00

CHANGES IN ENERGY BALANCE DURING  
HIGH PROTEIN DIETS — THE PREVIEW PROJECT

Chairs: TBD

**PREVIEW Population Studies**

ANGELO TREMBLAY — Canada

**Protein as a Source for Body-Weight Maintenance — The Role of Quantity and Quality (The PREVIEW Study)**

Anne RABEN — Denmark

**High-Protein Diet and Circadian Rhythm, Insulin Sensitivity, Energy Balance, and Prevention of Adaptive Thermogenesis (A PREVIEW Respiratory Chamber Study)**

Margriet WESTERTERP-PLANTENGA — Netherlands

09:00— 10:00

ENERGY METABOLISM/HOMEOSTASIS:  
NOVEL AND INNOVATIVE APPROACHES

Chairs: TBD

**Chemogenetics/Optogenetics to Approach Energy Homeostasis**

Alexandre CARON — Canada

**Metagenomics and Microbiomics to Investigate Energy Metabolism and Cardiometabolic Risk**

TBD

10:00 — 10:30

PAUSE / SPONSOR EXHIBITION

