MONDAY, FEBRUARY 1
08:00–08:40
Welcome Remarks and Keynote Address (Joint) (8am Denver/Mountain Time Start)
*Kevin L. Grove, Novo Nordisk, USA
*Lori Sussel, University of Colorado Anschutz Medical Campus, USA
Morris F. White, Boston Children's Hospital, Harvard Medical School, USA
Peripheral and Central Faces of Hepatic Insulin Resistance

08:40–11:00
Gut Instincts: Influence of the Intestine on Glucose Homeostasis (Joint) (8:40am Denver/Mountain Time Start)
*Kevin L. Grove, Novo Nordisk, USA
*Mary-Elizabeth Patti, Joslin Diabetes Center, USA
Hypoglycemia After Bariatric Surgery: Lessons Learned About Intestinal Control of Glucose Metabolism
Max Nieuwdorp, University of Amsterdam, Netherlands
Does the Disease Start with the Gut Microbiome?
Roy Taylor, Newcastle University, UK
T2DM: Simple Etiology but Heterogenous Individuals
Aneta Stefanidis †, Monash University, Australia
Short Talk: The Importance of Brown Fat in Mediating Changes in Glucose Regulation following Vertical Sleeve Gastrectomy
Chisayo Kozuka †, Joslin Diabetes Center, USA
Short Talk: Bromodomain-Containing Proteins Regulate Glucose Metabolism via Gut-Liver FGF15/19 Pathway

12:30–13:30
Career Roundtable (Joint) (12:30pm Denver/Mountain Time Start)

15:00–18:00
Central Adaptations to Body Weight Change (3pm Denver/Mountain Time Start) (Obesity)
Hans Rudolf Berthoud, Pennington Biomedical Research Center, USA
Central Effects of Bariatric Surgery
*Stephanie E. Fulton, University of Montreal, Canada
Curbing Hedonía: Neurometabolic Adaptations to High-Fat Diet and Obesity
Dana M. Small, Yale University School of Medicine, USA
Striatal – Prefrontal Circuit Sensitivity to Insulin Determines Working Memory Ability in Youth with Obesity
Murielle M. Veniant, Amgen Inc., USA
GIPR Antagonist Antibodies Conjugated to GLP-1 Peptides Decrease Weight in Obese Preclinical Models
Elinor L. Sullivan, Oregon National Primate Research Center, USA
The Influence of Maternal Nutrition and Metabolic State on Offspring Risk for Psychiatric Disorders
Chen Liu †, University of Texas Southwestern Medical Center, USA
Short Talk: Atypical Antipsychotics Target Hypothalamic Melanocortin 4 Receptors to Cause Weight Gain

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15:00–18:00

**Muscling in on Insulin Resistance (3pm Denver/Mountain Time Start) (Diabetes)**

**Juleen R. Zierath**, Karolinska Institutet, Sweden  
Skeletal Muscle Mediators and Exercise-Induced Adaptations Governing Insulin Sensitivity in Type 2 Diabetes

**Joseph T. Brozinick**, Eli Lilly and Company, USA  
Therapeutically Targeting Skeletal Muscle to Treat Type II Diabetes: Could Urocortin 2 be Exercise in a Bottle?

**Bret H. Goodpaster**, Translational Research Institute for Metabolism and Diabeties, USA  
Fat Accumulation in Muscle: Implications for Diabetes

**Lena Espelage †**, German Diabetes Center, Germany  
Short Talk: Contraction Response in Skeletal Muscle Glucose Uptake Is Regulated by the Two RabGAPs TBC1D1, TBC1D4 and the Key Components of Exercise Signaling, AMPK and Rac1, in a Cooperative Manner

**Taiyi Kuo †**, Columbia University, USA  
Short Talk: Systemic Benefits of Gc Inhibition to Preserve Insulin Sensitivity

**Dongyin Guan †**, University of Pennsylvania, USA  
Short Talk: Canonical and Non-Canonical Clock Regulators in Obesity and Diabetes

**Adam Rose †**, Monash University, Australia  
Short Talk: An Endocrine-Hepato-Muscular Metabolic Cycle Links Skeletal Muscle Atrophy and Hyperglycemia in Type 2 Diabetes

**Christoffer Clemmensen †**, Helmholtz Zentrum München, Germany  
Short Talk: GDF15 as a Regulator of Energy Metabolism: Physiology vs. Pharmacology

18:00–19:00

**Poster Session (6pm Denver/Mountain Time Start)**

**TUESDAY, FEBRUARY 2**

08:00–11:00

**Adipose Tissue Communication (8am Denver/Mountain Time Start) (Obesity)**

**Kevin L. Grove**, Novo Nordisk, USA  
*Philipp E. Scherer*, University of Texas Southwestern Medical Center, USA  
**Novel Insights into the Endocrine Actions of the Adipocyte**

**Ana Domingos**, University of Oxford, UK  
Sympathetic Innervation of Adipose Tissue

**Sean M. Hartig**, Baylor College of Medicine, USA  
Leveraging MicroRNA Targets to Treat Obesity

**Camilla Charlotte Schéele**, University of Copenhagen, Denmark  
Brown Adipocytes in Human Metabolism

**Stephanie Wesolowski**, University of Colorado Denver, USA  
Intrauterine Exposures and an Early Activation of Hepatic Glucose Production in the Fetus

**Kai Sun †**, University of Texas Health Science Center at Houston, USA  
Short Talk: Adipose-Derived MMP14 Is a Key Player in Metabolic Health

**Aimee L. Edinger †**, University of California, Irvine, USA  
Short Talk: A Drug-Like Sphingolipid Opposes Mitochondrial Fragmentation and Corrects the Adiponectin:Leptin Ratio and Obesity

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08:00–11:00

**Diabetes – One Name, Many Variations (8am Denver/Mountain Time Start) (Diabetes)**

*Laura C. Alonso†, Weill Cornell Medicine, USA
Ellen E. Blaak, Maastricht University, Netherlands

**Obesity Metabolic Phenotypes Leading to Type 2 Diabetes Mellitus: Implications for Personalized Prevention**

Kristen Jane Nadeau, University of Colorado Denver, USA

**Emerging Aspects of T2D in Youth**

Matthew B. Johnson, University of Exeter Medical School, UK

**Genetic Insights into Autoimmune Diabetes**

Carmella Evans-Molina, Indiana University, USA

**Type 1 Diabetes: Taking the Long View**

Kevan C. Herold, Yale University, USA

**Cancer Immunotherapy and T1D**

Alka M. Kanaya, University of California, San Francisco, USA

**Heterogeneity of Type 2 Diabetes Subtypes by Ethnicity**

Debora R. Sobreira†, University of Chicago, USA

**Short Talk: An Integrative Platform to Uncover the Mechanisms of the Association of TCF7L2 and T2D**

11:30–12:30

**Workshop and Panel 1: Health Disparities in Diabetes and Obesity (Joint) (11:30am Denver/Mountain Time Start)**

Carmella Evans-Molina, Indiana University, USA

Rory J. McCrimmon, University of Dundee, UK

Carla J. Greenbaum, Benaroya Research Institute at Virginia Mason, USA

Alka M. Kanaya, University of California, San Francisco, USA

15:00–18:00

**A Gut Feeling: How the Gut Speaks to the Brain (3pm Denver/Mountain Time Start) (Obesity)**

*Rachel L. Batterham, University College London, UK

**STEP Amylin Trials**

Darleen A. Sandoval, University of Colorado, USA

**Lessons From Mouse Models of Bariatric Surgery**

Diego V. Bohórquez, Duke University Medical Center, USA

**A Gut Choice for Sugars**

*Gary J. Schwartz, Albert Einstein College of Medicine, USA

**Bottom Up Control of Appetite**

Alison Nicole McRae †, Mayo Clinic, USA

**Short Talk: Overexpression of Regulator Of G-Protein Signaling (RGS) In Obesity Contributes To Impaired GPCR-Mediated Hormone Secretion In Human Enteroendocrine Cells: A Single-Cell RNA Sequencing Study of Gut Epithelium in Human Obesity**

Geke Aline Boer †, University of Copenhagen, Biomedical Institute, Denmark

**Short Talk: GIP Receptor Deletion in Mice Confers Resistance to Obesity via Alterations in Energy Expenditure and Adipose Tissue Lipid Metabolism**

Elizabeth Ann Killion †, Amgen, USA

**Short Talk: Chronic Glucose-Dependent Insulintropic Polypeptide Receptor (GIPR) Agonism Desensitizes Adipocyte GIPR Activity Mimicking Functional GIPR Antagonism**

Ki-Suk Kim †, University of Colorado Anschutz Medical Campus, USA

**Short Talk: The Role of Bile Acid Receptor Expressed in Intestinal Stem Cells on Enteroendocrine Cell Differentiation after Bariatric Surgery**

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15:00–18:00

The Failing Beta Cell in T1D and T2D (3pm Denver/Mountain Time Start) (Diabetes)
Chantal Mathieu. KU Leuven, Belgium
Dialog Between the Immune System and the Beta Cell

Laura C. Alonso. Weill Cornell Medicine, USA
ER Stress: The Good, the Bad and the Ugly

Marc Prentki. Montreal Diabetes Research Center, Canada
Insulin Hypersecretion as an Initiator of Insulin Resistance

*Lori Sussel. University of Colorado Anschutz Medical Campus, USA
Beta Cell Dysfunction Contributes to T1D

Feyza Engin †, University of Wisconsin-Madison, USA
Short Talk: Stress Induced Beta Cell Dedifferentiation Prior to Immune Cell Infiltration Prevents T1D

Sangeeta Dhawan †, City of Hope, USA
Short Talk: DNA Hydroxymethylation and Functional Beta Cell Mass in Health and Diabetes

Joan Mir-Cell †, InSphero AG, Switzerland
Short Talk: Human Islet Microtissues as an in vitro and in vivo Model System for Diabetes

Blaise Su Jun Low †, National University of Singapore, Singapore
Short Talk: Modeling the Insulin Secretion Defects in MODY3 using Patient hiPSC-derived Beta Cells

WEDNESDAY, FEBRUARY 3
08:00–11:00

Feeding Behavior: Top Down or Bottom Up? (8am Denver/Mountain Time Start) (Obesity)
Linda Rinaman. Florida State University, USA
GLP-1 Neural Signaling in Stress and Metabolism

*Lori M. Zeltser. Columbia University, USA
Effects of Social Isolation on Stress-Induced Behavior in Females

*Michael Krashes. NIDDK, National Institutes of Health, USA
High-Fat Food Biases Hypothalamic and Mesolimbic Expression of Consummatory Drives

Lotte Bjerre Knudsen. Novo Nordisk A/S, Denmark
GLP-1 in the Treatment of Obesity, Mechanisms that Translate into Durable Weight Loss in Patients

Anny Xiang †. Kaiser Permanente, USA
Outcomes of Maternal Obesity and Diabetes in Children

Katherine Blackmore †. George Washington University, USA
Short Talk: An Obligatory Forebrain-Hypothalamic ER Stress Driven Circuit Mediates Hepatic Steatosis during Obesity

08:00–11:00

Novel Therapeutic Strategies (8am Denver/Mountain Time Start) (Diabetes)

*Juleen R. Zierath. Karolinska Institutet, Sweden
Jose C. Florez. Massachusetts General Hospital, USA
Have GWAS Helped Classify Diabetes?

Emma Ahlqvist. Lund University, Sweden
Subclassifying Diabetes by Combining GWAS and Clinical Phenotyping

Paul W. Franks. Lund University, Sweden
Precision Medicine in Obesity and Diabetes

Rory J. McCrimmon. University of Dundee, UK
Mechanisms of Therapies for T2D and Potential Crossover to T1D

Carla J. Greenbaum. Benaroya Research Institute at Virginia Mason, USA
Therapies to Stop T1D...Determining Risk and Conducting Trials
Program current as of 1/12/2021

Allan Ertmann Karlsen, Novo Nordisk, Denmark
*Stem Cell Mediated Treatments for Diabetes*

Sandrine Claus †, Ysopia Bioscience, France
*Short Talk: A New Strain of Christensenella minuta as a Potential Biotherapy for Obesity and Associated Metabolic Diseases*

11:30–12:30

*Workshop and Panel 2: Patient Perspective and Stigmas (11:30am Denver/Mountain Time Start) (Obesity)*
*Rachel L. Batterham*, University College London, UK
*Francesco Rubino*, King's College London, UK
*Patricia Nece*, USA
*Joseph Nadglowski*, Obesity Action Coalition, USA

11:30–13:00

*Workshop 2: COVID and Diabetes (11:30am Denver/Mountain Time Start) (Diabetes)*
*Lori Sussel*, University of Colorado Anschutz Medical Campus, USA
*Alpana P. Shukla*, Weill Cornell Medical College, USA
*Interaction between T2D and Obesity and COVID Outcomes*
*G. Todd Alonso*, University of Colorado, USA
*COVID and TID*
*Shuibing Chen*, Weill Cornell Medical College, USA
*COVID Directly Infects Beta Cells and Affects Beta Cell Function*
*Katie C. Coate*, Vanderbilt University Medical Center, USA
*COVID Does Not Infect Beta Cells (No Receptor)*
*Francesco Dotta*, University of Siena, Italy
*Human Beta Cells Express ACE2*
*Dirk Homann*, Icahn School of Medicine at Mount Sinai, USA
*Experimental and Natural SARS-CoV-2 Infection of the Human Pancreas*

15:00–17:50

*CNS Control of Energy Homeostasis and Blood Glucose (Joint) (3pm Denver/Mountain Time Start)*
*Shane T. Hentges*, Colorado State University, USA
*POMC Neurons: Distinct Roles in Food Intake, Metabolism and Glucose Regulation*
*Michael A. Cowley*, Monash University, Australia
*Hypothalamic Control of Glucose Homeostasis*
*Martin G. Myers, Jr.*, University of Michigan, USA
*Control of Food Intake and Energy Balance via the NTS and DMH*
*Michael W. Schwartz*, University of Washington, USA
*Unraveling Diabetes Remission Induced by the Brain*
*Ian Enrique Gonzalez †*, University of Michigan, USA
*Short Talk: Paraventricular Hypothalamic Calcitonin Receptor Expressing Neurons Regulate Energy Balance*
*Juliana Bezerra Medeiros de Lima*, Wayne State University, USA
*Short Talk: ARC GHR Neurons Control System Glucose Sensitivity via Muscle Glucose Uptake*

17:50–18:00

*Closing Remarks (5:50pm Denver/Mountain Time Start)*

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