MONDAY, FEBRUARY 1

Welcome Remarks and Keynote Address (Joint) (8am Denver/Mountain Time Start)
*Kevin L. Grove, Novo Nordisk, USA
Session Chair
*Lori Sussel, University of Colorado Anschutz Medical Campus, USA
Session Chair
Morris F. White, Boston Children’s Hospital, Harvard Medical School, USA
Peripheral and Central Faces of Hepatic Insulin Resistance
*Gut Instincts: Influence of the Intestine on Glucose Homeostasis (Joint) (8:40am Denver/Mountain Time Start)
Kevin L. Grove, Novo Nordisk, USA
Session Chair
*Mary-Elizabeth Patti, Joslin Diabetes Center, USA
Hypoglycemia After Bariatric Surgery: Lessons Learned About Abnormal 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 Heterogeneous 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, RIKEN Center for Integrative Medical Sciences, Japan
Short Talk: Bromodomain-Containing Proteins Regulate Glucose Metabolism via Gut-Liver FGFr15/19 Pathway
Career Roundtable (Joint) (12:30pm Denver/Mountain Time Start)
Diego V. Bohórquez, Duke University, USA
Murielle M. Véniant-Ellison, Amgen Inc., USA
Kristen Jane Nadeau, University of Colorado Denver, USA
Poster Session 1 (Joint) (1:30pm Denver/Mountain Time Start)
Central Adaptations to Body Weight Change (3pm Denver/Mountain Time Start) (EK17)
*Thomas H. Meek, Novo Nordisk, USA
Session Chair
Hans Rudolf Berthoud, Pennington Biomedical Research Center, USA
Central Effects of Bariatric Surgery
*Stephanie E. Fulton, University of Montreal, Canada
Curbing Hedonia: 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. Véniant-Ellison, Amgen Inc., USA
GIPR Antagonist Antibodies Conjugated to GLP-1 Peptides Increase Weight in Obese Preclinical Models
Elizur L. Sullivan, Oregon National Primate Research Center, USA
[NOT AVAILABLE ON DEMAND] 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: Atyypical Antipsychotics Target Hypothalamic Melanocortin 4 Receptors to Cause Weight Gain
Natasha Gaito, Virginia Tech, USA
Short Talk: In silico Analysis of the POMC and NPY Promoters: The Role of Methylation in Environmental Triggers of Obesity
Muscling in on Insulin Resistance (3pm Denver/Mountain Time Start) (EK18)
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 Diabetes, 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
Taiji Kuo, Columbia University, USA
Short Talk: Systemic Benefits of Gc Inhibition to Preserve Insulin Sensitivity
Dongyin Guan, Baylor College of Medicine, USA
Short Talk: Canonical and Non-Canonical Clock Regulators in Obesity and Diabetes
Adam J. Rose, Monash University, Australia
Short Talk: An Endocrine-Hepato-Muscular Metabolic Cycle Links Skeletal Muscle Atrophy and Hyperglycemia in Type 2 Diabetes
Christoffer Clemmensen, University of Copenhagen, Denmark
Short Talk: GDF15 as a Regulator of Energy Metabolism: Physiology vs. Pharmacology

* Session Chair † Invited but not yet accepted     Program current as of July 19, 2023.
For the most up-to-date details, visit https://www.keystonesymposia.org.
TUESDAY, FEBRUARY 2

Adipose Tissue Communication (8am Denver/Mountain Time Start) (EK17)

*Kevin L. Grove, Novo Nordisk, USA
Session Chair

*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
Early Differentiation of Human Brown and White Adipocytes at Single Cell Level Reveals Common Subtype with Genetic Association to Body Fat Distribution
Stephanie Wesolowski, University of Colorado, USA

Diabetes – One Name, Many Variations (8am Denver/Mountain Time Start) (EK18)

*Laura C. Alonso, Weill Cornell Medicine, USA
Session Chair

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

Meet the Editors (Joint) (12:30pm Denver/Mountain Time Start)

Katherine Samaras, Frontiers in Endocrinology, Australia
Jeff Holly, Frontiers in Endocrinology, UK
Kristian van der Vos, Cell Press, Netherlands
Allyson Evans, Cell Press, USA

Poster Session 2 (Joint) (1:30pm Denver/Mountain Time Start)

A Gut Feeling: How the Gut Speaks to the Brain (3pm Denver/Mountain Time Start) (EK17)

*Rachel L. Batterham, University College London, UK
NOT AVAILABLE ON DEMAND STEP Amylin Trials
Darleen A. Sandoval, University of Colorado, USA
Lessons From Mouse Models of Bariatric Surgery
Diego V. Bohórquez, Duke University, 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 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 Insulinoetric 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

The Failing Beta Cell in T1D and T2D (3pm Denver/Mountain Time Start) (EK18)

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
Novel Metabolic Enzyme Glycerol 3-P-Phosphatase: From β-cell Gluco-detoxification to Healthy Aging

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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

Closing Remarks (5:50pm Denver/Mountain Time Start) (EK17)
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