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 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, RIKEN Center for Integrative Medical Sciences, Japan
Short Talk: Bromodomain-Containing Proteins Regulate Glucose Metabolism via Gut-Liver FGF15/19 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

*Session Chair † Invited but not yet accepted     Program current as of August 18, 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

Metabolic Programming in the Fetal Liver- Potentiation of Gluconeogenesis by Hypoxemia

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: 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 Insulinoactive 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

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

Katherine Samaras, Frontiers in Endocrinology, Australia

Jeff Holly, Frontiers in Endocrinology, UK

Kristan 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

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

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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
WEDNESDAY, FEBRUARY 3

Feeding Behavior: Top Down or Bottom Up? (8am Denver/Mountain Time Start) (EK17)
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 Bjørre Knudsen, Novo Nordisk A/S, Denmark
GLP-1 in the Treatment of Obesity, Mechanisms that Translate into Durable Weight Loss in Patients
Manolis Kellis, Massachusetts Institute of Technology, Broad Institute, USA
Single-Cell Multi-Tissue Dissection of Obesity-Exercise Circuitry in Human and Mouse
Katherine Blackmore, George Washington University, USA
Short Talk: An Obligatory Forebrain-Hypothalamic ER Stress Driven Circuit Mediates Hepatic Steatosis during Obesity

Novel Therapeutic Strategies (8am Denver/Mountain Time Start) (EK18)
*Juleen R. Zierath, Karolinska Institutet, Sweden
Session Chair
*Jose C. Florez, Massachusetts General Hospital, USA
Have GWAS Helped Classify Diabetes?
Emma Ahlvist, Lund University, Sweden
Subclassifying Diabetes by Combining GWAS and Clinical Phenotyping
Paul W. Franks, Lund University and Novo Nordisk Foundation, Sweden
Precision Medicine in Obesity and Diabetes

Rory J. McCrimmon, University of Dundee, UK
Mechanisms of Therapies for T2D and Potential Crossover to T1D
Cara J. Greenbaum, Benaroya Research Institute at Virginia Mason, USA
Therapies to Stop T1D...Determining Risk and Conducting Trials
Allan Ertmann Karlsen, Novo Nordisk, Denmark
Stem Cell Mediated Treatments for Diabetes

Workshop and Panel: Patient Perspective and Stigmas (11:30am Denver/Mountain Time Start) (EK17)
*Rachel L. Batterham, University College London, UK
Session Chair
Vicki Mooney, ECPO Executive Director & Patient, Spain
Francesco Rubino, King’s College London, UK

Workshop and Panel Discussion: COVID and Diabetes (11:30am Denver/Mountain Time Start) (EK18)
*Lori Sussel, University of Colorado Anschutz Medical Campus, USA
Session Chair
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 T1D
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
ACE2 is Expressed in the Islet Microvasculature and Ducts of Human Pancreas
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

Networking Lounge (Joint) (1:30pm Denver/Mountain Time Start)

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

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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)
Closing Remarks (5:50pm Denver/Mountain Time Start) (EK18)