

ADA 2024 Playbook T1D Focus



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Presentations

Friday, June 21

- 12:45-1:45 **W415b** **Setting the Record Straight—Does SARS-CoV-2 Cause Type 1 Diabetes?**
Mark Atkinson, Peter K. Jackson & Carmella Evans-Molina
- 12:45-1:00 **W307** **Targeting Inflammation with Salsalate in T1D Neuropathy** -Lynn Ang
- 1:00-1:15 **W315** **The Effect of a Dietary Intervention on Insulin Sensitivity in T1D and the Role of Dietary Advanced Glycation End-Products—A 12-Week RCT**- Hana Kahleova
- 1:15-1:30 **W415c** **Lantidra, First FDA Approved Cellular Therapy to Treat T1D**- Yi Li
- 1:15-1:30 **W207** **Causal Associations between Glyoxalase 1 Expression and Kidney Disease in Type 1 Diabetes**- Krishna Adeshara
- 1:15-1:30 **W208** **Diabetic Retinopathy Is Associated with Markers of Alzheimer's Disease in T1D**- Meghan E. Pauley
- 1:15-1:30 **W311** **ROCKET Type 1 Diabetes—Launching Diabetes Self-Management Habits in Youth with New-Onset Type 1 Diabetes**- Guido Alarcon
- 2:00-3:30 **W206** *Fueling the Fire—Islet Stimulus–Secretion Coupling Chair: Yumi Imai*
2:00-2:15 **β -Cell Dysfunction and Mitochondrial Loss Occur Independently of Insulinitis In Type 1 Diabetes Pathogenesis**- Mollie Huber
2:15-2:30 **SLC7A2-Dependent Arginine Transport in α -Cells Signals Arginine tone to Regulate Insulin Secretion**- Jade Stanley
2:30-2:45 **Investigating the Mechanisms of Cross Talk between Endocrine Beta Cells and Pericytes in Pancreatic Islets**- Luciana Mateus Goncalves
2:45-3:00 **Revelations in Regulation—Sodium/Potassium ATPase Subunit Control of Beta-Cell Cation Handling and Insulin Secretion** - Matthew Dickerson
3:00-3:15 **A Novel Strategy for Detecting In Vivo Functional β -Cells Using Positron Emission Tomography (PET) Imaging**- Junfeng Li
3:15-3:30 **Signaling Mechanisms Underlying Islet Compensation in a Novel Mouse Model of β -Cell Replication Deficiency**- Hannah R. Foster
- 2:00-3:30 **W304a-d** *Immune Features of Immune Therapy and Evolution—Fickle or Fixed? Chair:Cate Speake*
2:00-2:15 **Defining Type 1 Diabetes Endotypes**- Amina Bedrat
2:15-2:30 **Clonal Expansion of Islet Reactive CD4 T-Cells with Early Disease Progression**
Karen Cerosaletti
2:30-2:45 **Pathogenic Action of GAD65 Autoantibodies on Islet Function in T1D**
Ian Sweet
2:45-3:00 **Diurnal Variation of Islet Autoantibodies in Established Type 1 Diabetes**
Linda A. DiMeglio
3:15-3:30 **Preclinical Characterization of MTX-101, a Novel KIRxCD8 Targeting Bispecific CD8 Treg Modulator**- Courtney Crane
- 2:00-3:30 **W320** *How Will Artificial Intelligence Change Diabetes Clinical Practice? Chair: Edward C. Chao*
2:00-2:20 **Artificial Intelligence in Health Care and the Future of Diabetes Data**- Boris Kovatchev
2:20-2:40 **Artificial Intelligence and the Future of Diabetes Devices**- Peter G. Jacobs
2:40-3:00 **Artificial Intelligence and the Future of the Multidisciplinary Team**- Mudassir M. Rashid

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ADA 2024 FRIDAY June 21 T1D Presentations (cont.)

- 2:00-2:15 **W415c** **Influence of the Type 1 Diabetes Genetic Risk Score on Response to Immunotherapies for Type 1 Diabetes Prevention-** Maria Redondo
- 2:00-2:15 **W311** **CGM Metrics from Five Studies Identify Participants at High Risk of Imminent T1D**
Peter Calhoun
- 2:00-2:15 **W208** **Continuous Glucose Monitoring in Pregnancies with Type 1 Diabetes—A Retrospective Study-** Stephanie A. Fisher
- 2:30-2:45 **W415c** **PROTECT Per-Protocol Analysis—Preserving β -Cell Function in Children and Adolescents with Newly Diagnosed Stage 3 Type 1 Diabetes (T1D)-** Kevan Herold
- 3:00-3:15 **W311** **Breath Acetone Correlates with Capillary Beta Hydroxybutyrate in T1D-** Kai Jones
- 3:15-3:30 **W311** **A Novel Decision Support System for Automated Adaptations of Insulin Injections in T1D—A Randomized Controlled Trial-** Alessandra Kobayati
- 3:45-5:15 **W415b** *Joint ADA/IPITA Symposium—Clinical Beta-Cell Replacement Therapy Today*
Co-chairs: Michael R. Rickels and Melena Bellin
- 3:45-4:05 **Evaluation of the Patient with Diabetes for Beta- Cell Replacement –** Anna Lam
- 4:05-4:20 **The Psychological Impact of Islet or Pancreas Transplantation-** Jane Spreight
- 4:25-4:45 **Monitoring and Treatment of Recipients for Rejection or Type 1 Diabetes-** Michiel Nijhoff
- 4:45-5:05 **Update on Clinical Trials Using Stem- Cell Replacement-** Piotr Witkow
- 3:45-5:15 **W206** *Taking a Closer Look—Subcellular Approaches to Islet Biology*
Chair: Rafael Arrojo e Drigo
- 3:45-4:15 **Contributions of the Microtubule Cytoskeleton to Beta-Cell Biology-** Irina Kaverina
- 4:15-4:30 **Cilia, Microvilli, and Membrane Localized Glycolysis in The Beta Cell**
Matthew J. Merrins
- 4:45-5:15 **Metabolic Control of Beta- Cell Secretory Capacity-** Samuel B. Stephens
- 5:30-6:30 **W414** *Type 1 Diabetes Genome, Epigenome, and CRISPR Screens*
Chair: Catherine C. Robertson
- 5:30-5:45 **Genetic Predictors of Response to Oral Insulin for Type 1 Diabetes Prevention-** Lu You
- 5:45-6:00 **Genetic Variation and Time to Progression in TN10 -** Dominika A. Michalek
- 6:00-6:15 **Genome-Wide CRISPR Screen Identified That Alternative Splicing Regulates in Insulin Secretion-** Siying Wei
- 6:15-6:30 **Epigenome-Wide Discovery of the Maternal Effect in Type 1 Diabetes Risk**
Randi K. Johnson
- 5:30-6:30 **W415b** *Islet Potpourri Oral Abstracts* *Chair: Barak Blum*
- 5:30-5:45 **The Alpha–Catenin–Cholesterol Biosynthesis Axis Regulates Tight Junction Formation in Pancreatic Islets-** Wilma Tixi
- 5:45-6:00 **Targeting Alpha Cells to Treat Hypoglycemia in Type 1 Diabetes-** Julia Panzer
- 6:00-6:15 **Perilipin 2 Regulates Fatty Acid Trafficking to Mitochondria through Microlipophagy in Beta Cells-** Siming Liu
- 6:15-6:30 **LC3+ Extracellular Vesicles (EVs) Are Associated with Altered -Cell Autophagy, Islet Inflammation, and Diabetes-** Jerry Xu