

OPPORTUNITIES FOR RESEARCH SUPPORTED BY THE *SPECIAL STATUTORY FUNDING PROGRAM FOR TYPE 1 DIABETES RESEARCH: A WORKSHOP OF THE DMICC*

November 12, 2024

Hybrid meeting - NIH Campus, Building 45 (Natcher Conference Center) Room E1/E2
Bethesda, MD 20892

DRAFT AGENDA (last updated October 23, 2024)

NOTE: All times are in Eastern Standard Time (EST), UTC -5.

- 8:30-8:40 am** **Welcome and Introduction**
Dr. Griffin P. Rodgers, Director, NIDDK
- 8:40-8:50 am** **Around the Table Introductions**
- 8:50-9:30 am** **Overview of the *Special Statutory Funding Program for Type 1 Diabetes Research* and Information on Ongoing Research Programs**
Dr. William Cefalu, Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
- 9:30-9:40 am** **Patient Perspective**
Ms. Karen Jordan, Breakthrough T1D Volunteer
- 9:40-9:50 am** **Patient Perspective**
Mr. Tom Chapman, Breakthrough T1D Volunteer
- 9:50-10:10 am** **Proposal 1: Consortium on Immune Tolerance Engineering (CITE)**
Dr. Olivier Blondel, Program Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Kenyon, Dr. Hubbell, Dr. Redondo
- 10:10-10:30 am** **Proposal 2: Identification and Validation of Biomarkers for Defining and Characterizing Type 1 Diabetes Endotypes**
Dr. Salvatore Sechi, Program Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Oram, Dr. Redondo, Dr. Schatz
- 10:30-10:45 am** **BREAK**
- 10:45-11:05 am** **Proposal 3: The Role of the Innate Immune System in the Pathogenesis of Type 1 Diabetes**
Dr. Maggie Morris Fears, Program Officer, Autoimmune and Primary Immunodeficiency Diseases Section, NIAID
Primary discussants: Dr. Evans-Molina, Dr. Redondo, Dr. Schatz
- 11:05-11:25 am** **Proposal 4: Pancreatic Exocrine Dysfunction in Type 1 Diabetes**
Dr. Dana Anderson, Program Director: Division of Digestive Diseases & Nutrition, NIDDK
Primary discussants: Dr. Evans-Molina, Dr. Oram, Dr. Redondo
- 11:25-11:45 am** **Proposal 5: Engineering Improved Stem Cell-Derived Islet Cells for Replacement Therapies**
Dr. Albert Hwa, Program Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Evans-Molina, Dr. Hebrok, Dr. Kenyon

- 11:45 am-12:05 pm** **Proposal 6:** Pilot/Opportunity Support for Generative Pretrained Transformers (GPT) to Accelerate Type 1 Diabetes Pancreas Research: Expansion of the HIRN-PanKbase Program
Dr. Xujing Wang, Program Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Chen, Dr. Ma'ayan, Dr. Rosenthal
- 12:05 -12:35 pm** **LUNCH**
- 12:35-12:55 pm** **Proposal 7:** Multimodal AI to Accelerate Development of Biomarkers for Type 1 Diabetes Initiation, Progression, and Heterogeneity
Dr. Xujing Wang, Program Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Chen, Dr. Ma'ayan, Dr. Rosenthal
- 12:55-1:15 pm** **Proposal 8:** New Generation of Type 1 Diabetes Control Technologies Incorporating Artificial Intelligence/Machine Learning Tools/Strategies
Dr. Guillermo Arreaza-Rubin, Program Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Cengiz, Dr. Redondo, Dr. Schatz
- 1:15-1:35 pm** **Proposal 9:** Development and Application of New and Existing Digital Health Technologies Including Mobile, Wearable, and Continuous Monitoring Tools for Kidney, Urologic, and Digestive Complications of Type 1 Diabetes Mellitus
Dr. Ivonne Schulman, Program Director, Division of Kidney, Urologic, & Hematologic Diseases, NIDDK
Primary discussants: Dr. Busui, Dr. Cengiz, Dr. Rhee
- 1:35-1:55 pm** **Proposal 10:** Shared Decision Making to Improve Type 1 Diabetes Care
Dr. Maureen Monaghan Center, Program Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Butler, Dr. Jaser, Dr. McCoy
- 1:55-2:15 pm** **Proposal 11:** Role of Neuroimmune Interactions in the Pathogenesis of Diabetic Neuropathy in Type 1 Diabetes
Dr. Terez Shea-Donohue, Program Director, Division of Digestive Diseases & Nutrition, NIDDK
Primary discussants: Dr. Busui, Dr. Rhee, Dr. Rosenthal
- 2:15-2:30 pm** **BREAK**
- 2:30-2:50 pm** **Proposal 12:** Understanding Diabetic Wound Healing in Type 1 Diabetes
Dr. Teresa Jones, Program Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Hubbell, Dr. King, Dr. Schatz
- 2:50-3:10 pm** **Proposal 13:** Reducing Cardiovascular Disease Outcomes in Type 1 Diabetes Mellitus
Dr. Lawrence Fine, Senior Advisor, Clinical Applications and Prevention Branch, Division of Cardiovascular Sciences, NHLBI
Primary discussants: Dr. Busui, Dr. McCoy, Dr. Rhee

- 3:10-3:30 pm** **Proposal 14:** Addition of Ocular and Other Diabetes Complications Tissue to the Cardiovascular Repository -Type 1 Diabetes (CARE-T1D)
Dr. Teresa Jones, Program Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Antonetti, Dr. Fawzi, Dr. King
- 3:30-3:50 pm** **Proposal 15:** Identifying Early Visual Function Deficits from Diabetic Retinal Disease in Youth
Dr. Emily Chew, Director, Division of Epidemiology and Clinical Applications, NEI
Primary discussants: Dr. Antonetti, Dr. Fawzi, Dr. King
- 3:50-5:00 pm** **Closing Discussion (led by Dr. Cefalu)**
- **Final comments on presented proposals**
 - **Identifying other research gaps and opportunities**
- 5:00 pm** **Adjourn**