DMICC WORKSHOP ON RESEARCH SUPPORTED BY THE SPECIAL STATUTORY FUNDING PROGRAM FOR TYPE 1 DIABETES RESEARCH

AGENDA

June 6

8:15-8:25 am  Welcome and Introduction
Griffin Rodgers, M.D., M.A.C.P., Director, NIDDK

8:25-8:45 am  Overview of the Special Statutory Funding Program for Type 1 Diabetes Research
Judith Fradkin, M.D., Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK

TOPIC 1: ARTIFICIAL PANCREAS
Primary Discussants: Edward Damiano, Ph.D.; Robert Sherwin, M.D.

8:45-8:55 am  Current Efforts in Artificial Pancreas
Judith Fradkin, M.D., Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK

Guillermo Arreaza, M.D., Program Director, Clinical Immunology of Diabetes, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Sherwin

9:10-9:25 am  Proposal 2: Towards an Artificial Pancreas: Expansion of Support for Research to Develop New Therapeutics and Monitoring Technologies for Type 1 Diabetes
Guillermo Arreaza, M.D., Program Director, Clinical Immunology of Diabetes, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Damiano

9:25-9:40 am  Topic 1 panel discussion led by primary discussants

9:40-9:55 am  BREAK

TOPIC 2: AUTOIMMUNE ETIOLOGY AND EPIDEMIOLOGY
Primary Discussants: Jeffrey Bluestone, Ph.D.; John Buse, M.D., Ph.D.; Robert Eckel, M.D.; Mark Espeland, Ph.D.; Ronald Gill, Ph.D.; Georgeanna Klingensmith, M.D.; Rudolph Leibel, M.D., John Looney, M.D.; James Neaton, Ph.D.; Robert Sherwin, M.D.; Megan Sykes, M.D.

9:55-10:05 am  Current Efforts in Autoimmune Etiology and Epidemiology
Judith Fradkin, M.D., Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK

10:05-10:20 am  Proposal 1: Function of Non-MHC Loci for Type 1 Diabetes
Beena Akolkar, Ph.D., Senior Advisor, Immunopathogenesis and Genetics of Type 1 Diabetes, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Bluestone, Dr. Leibel
10:20-10:35 am  Proposal 2: The Environmental Determinants of Diabetes in the Young
Beena Akolkar, Ph.D., Senior Advisor, Immunopathogenesis and Genetics of Type 1 Diabetes, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Bluestone

10:35-10:50 am  Proposal 3: Research Using Biosamples from Selected Type 1 Diabetes Clinical Studies
Lisa Spain, Ph.D., Program Director, Immunobiology of Type 1 Diabetes and Autoimmune Endocrine Diseases, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Sykes

10:50-11:05 am  Proposal 4: Research Using Subjects from Selected Type 1 Diabetes Clinical Studies (Living Biobank)
Lisa Spain, Ph.D., Program Director, Immunobiology of Type 1 Diabetes and Autoimmune Endocrine Diseases, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Looney

11:05-11:45 am  Proposal 5: Type 1 Diabetes TrialNet
Lisa Spain, Ph.D., Program Director, Immunobiology of Type 1 Diabetes and Autoimmune Endocrine Diseases, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Looney, Dr. Gill

11:45-12:00 pm  Proposal 6: Treatment of Silent Type 1 Diabetes
Beena Akolkar, Ph.D., Senior Advisor, Immunopathogenesis and Genetics of Type 1 Diabetes, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Sherwin

12:00-12:45 pm  LUNCH

12:45-1:10 pm  Proposal 7a: Immune Tolerance Network
James McNamara, M.D., Acting Associate Director, Clinical Research Operations Program, Division of Allergy, Immunology, and Transplantation, NIAID
Primary discussants: Dr. Buse, Dr. Looney

1:10-1:25 pm  Proposal 7b: ITN NOD Preclinical Consortium
Kasia Bourcier, Ph.D., Program Officer, Autoimmunity and Mucosal Immunology Branch, Division of Allergy, Immunology, and Transplantation, NIAID
Primary discussant: Dr. Sykes

1:25-1:40 pm  Proposal 8: Discovery of Adjuvants that Potentiate Antigen-Specific Immune Tolerance
Wolfgang Leitner, M.Sc., Ph.D., Program Officer, Innate Immunity Section, Basic Immunology Branch, Division of Allergy, Immunology, and Transplantation, NIAID
Primary discussant: Dr. Bluestone

1:40-2:05 pm  Proposal 9: Search for Diabetes in Youth
Giuseppina Imperatore, M.D., Ph.D., Epidemiology Team Lead, Division of Diabetes Translation, Centers for Disease Control and Prevention
Primary discussants: Dr. Eckel, Dr. Neaton

2:05-2:20 pm Proposal 10: Use of Electronic Health Information for Population Surveillance of Type 1 Diabetes in Children and Young Adults: A Feasibility Study
Sharon Saydah, Ph.D., CDR USPHS, Senior Scientist, Division of Diabetes Translation, Centers for Disease Control and Prevention
Primary discussants: Dr. Espeland, Dr. Klingensmith

2:20-2:45 pm Topic 2 panel discussion led by primary discussants

2:45-3:00 pm BREAK

TOPIC 3: CLINICAL MANAGEMENT
Primary Discussants: John Buse, M.D., Ph.D, Georgeanna Klingensmith, M.D.; Timothy Wysocki, Ph.D.

3:00-3:10 pm Current Efforts in Clinical Management
Judith Fradkin, M.D., Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK

3:10-3:25 pm Proposal 1: Improving Adherence in Young Children with Type 1 Diabetes
Christine Hunter, Ph.D., Director of Behavioral Research, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Klingensmith

3:25-3:40 pm Proposal 2: Understanding Barriers and Facilitators to Type 1 Diabetes Management in Adults
Christine Hunter, Ph.D., Director of Behavioral Research, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Buse

3:40-3:55 pm Proposal 3: Training for Behavioral Scientists in Type 1 Diabetes
Christine Hunter, Ph.D., Director of Behavioral Research, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Wysocki

3:55-4:10 pm Topic 3 panel discussion led by primary discussants

TOPIC 4: RESOURCES
Primary Discussants: Jeffrey Bluestone, Ph.D.; Ronald Gill, Ph.D.

4:10-4:20 pm Current Efforts in Resources
Judith Fradkin, M.D., Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK

4:20-4:35 pm Proposal 1: Harvesting the Neuroimaging Cornucopia for Pancreatic Islet Imaging Reagents
Maren Laughlin, Ph.D., Senior Advisor for Integrative Metabolism, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Gill

4:35-4:50 pm Proposal 3: Type 1 Diabetes-Rapid Access to Intervention Development
Aaron Pawlyk, Ph.D., Program Director, Pharmacogenomics and Drug Discovery, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Gill

4:50-5:15 pm Proposal 2: Supplemental Type 1 Diabetes Projects Within the NIH Centers for Accelerated Innovations
Kristin Abraham, Ph.D., Senior Advisor, Model Systems and Resources, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Bluestone

5:15-5:30 pm Topic 4 panel discussion led by primary discussants

5:30-6:00 pm Day 1 wrap-up

June 7

TOPIC 5: DIABETES COMPLICATIONS
Primary Discussants: Matthew Breyer, M.D.; Robert Eckel, M.D.; Eva Feldman, M.D., Ph.D.; Rudolph Leibel, M.D.; John Penn, Ph.D.; Ann Marie Schmidt, M.D., Robert Sherwin, M.D., James Neaton, Ph.D

8:15-8:25 am Current Efforts in Diabetes Complications
Judith Fradkin, M.D., Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK

8:25-8:40 am Proposal 1: Biomarkers for Type 1 Diabetes Complications Through Imaging the Eye
Teresa Jones, M.D., Program Director for Diabetic Complications, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Penn

8:40-8:55 am Proposal 2: Consultancy for Therapy Development for Diabetic Neuropathy and Diabetic Wound Healing
Teresa Jones, M.D., Program Director for Diabetic Complications, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Feldman

8:55-9:10 am Proposal 3: Type 1 Diabetes Impact Awards in Diabetic Complications Research
Kristin Abraham, Ph.D., Senior Advisor, Model Systems and Resources, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Schmidt

9:10-9:25 am Proposal 4: Genetic Variation Related to Protection or Risk in Extreme Type 1 Diabetic Nephropathy Phenotypes
Catherine McKeon, Ph.D., Senior Advisor for Genetic Research, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Leibel

9:25-9:40 am Proposal 5: Small Business Innovation Research to Develop New Diagnostic, Monitoring, and Therapeutics Technologies for the Complications of Type 1 Diabetes
Guillermo Arreaza, M.D., Program Director, Clinical Immunology of Diabetes, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Breyer
9:40-9:55 am  Proposal 6: Clinical Trials for Cardiovascular Disease in Type 1 Diabetes
Teresa Jones, M.D., Program Director for Diabetic Complications, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussants: Dr. Eckel, Dr. Schmidt

9:55-10:10 am  Proposal 7: Clinical Trials to Study the Neurological Impact of Dysglycemia in Type 1 Diabetes
Karen Winer, M.D., Director of Pediatric Endocrinology, Pediatric Growth and Nutrition Branch, NICHD
Primary discussants: Dr. Feldman, Dr. Sherwin

10:10-10:25 am  BREAK

10:25-10:50 am  Proposal 8: Diabetic Retinopathy Clinical Research Network
Frederick Ferris, III, M.D., Clinical Director, Division of Intramural Research, NEI
Primary discussants: Dr. Neaton, Dr. Penn

10:50-11:20 am  Topic 5 panel discussion led by primary discussants

TOPIC 6: BETA CELL BIOLOGY
Primary Discussants: Domenico Accili, M.D.; Mark Espeland, Ph.D.; Ronald Gill, Ph.D.; Rudolph Leibel, M.D.; Megan Sykes, M.D.

11:20-11:30 am  Current Efforts in Beta Cell Biology
Judith Fradkin, M.D., Director, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK

11:30-11:45 am  Proposal 1: Glucagon and the Glycemic Dysregulation of Type 1 Diabetes
Maren Laughlin, Ph.D., Senior Advisor for Integrative Metabolism, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Leibel

11:45-12:00 pm  Proposal 2: Imaging Pancreatic Beta Cell Mass and Function
Maren Laughlin, Ph.D., Senior Advisor for Integrative Metabolism, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Accili

12:00-12:45 pm  LUNCH

12:45-1:00 pm  Proposal 3: Human Islet Research Network Overview
Olivier Blondel, Ph.D., Director, Endocrine Systems Biology Program, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK

1:00-1:15 pm  Proposal 3a: Human Islet Research Network Coordinating Center
Olivier Blondel, Ph.D., Director, Endocrine Systems Biology Program, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Espeland

1:15-1:30 pm  Proposal 3b: Consortium on Regeneration, Reprogramming, and Targeting
Olivier Blondel, Ph.D., Director, Endocrine Systems Biology Program, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Accili

1:30-1:45 pm  Proposal 3c: Consortium on Human Islet Biomimetics
Olivier Blondel, Ph.D., Director, Endocrine Systems Biology Program, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Sykes

1:45-2:00 pm  Proposal 3d: Consortium for Modeling Autoimmune Interactions
Olivier Blondel, Ph.D., Director, Endocrine Systems Biology Program, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Gill

2:00-2:15 pm  Proposal 3e: Consortium on Measuring Beta Cell Death and Survival
Olivier Blondel, Ph.D., Director, Endocrine Systems Biology Program, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Accili

2:15-2:30 pm  Proposal 3f: Bioengineering and Synthetic Biology Program
Olivier Blondel, Ph.D., Director, Endocrine Systems Biology Program, Division of Diabetes, Endocrinology, & Metabolic Diseases, NIDDK
Primary discussant: Dr. Gill

2:30-2:50 pm  Topic 6 panel discussion led by primary discussants

2:50-3:00 pm  Patient Perspective-Judy Hunt

3:00-4:00 pm  Closing discussion led by Dr. Judith Fradkin, NIDDK