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| **Sunday, March 2nd, 2025** |
| **Time** | **Function** | **Location** |
| 10:00 AM – 5:30 PM | **REGISTRATION** | Lobby |
| 12:00 PM – 1:30 PM | **LUNCH**Open to all registered attendees | *Location TBD* |
| 12:00 PM – 1:30 PM | **Young Investigator Meet-and-Greet**A special program open to all young investigatorsPrior registration requested but not required | *Location TBD* |
| 1:30 PM – 1:45 PM | **Opening Remarks -** *Looking backward to guide our steps forward*Carmella Evans-Molina, MD, PhD  | *Aqualea Grand Ballroom* |
| 1:45 PM – 3:10 PM  | **Cutting Edge Seminar I - Key question 1:****Differences in T1D Between Children and Adults**Co-chairs: Sarah Richardson, PhD and Todd Brusko, PhD | *Aqualea Grand Ballroom* |
| 1:45 PM – 1:55 PM | **Key Question 1 Introduction**Sarah Richardson, PhDTodd Brusko, PhD |
| 1:55 PM – 2:20 PM | *Development of adaptive immunity during childhood*Joshua Gray, PhD |
| 2:20 PM – 2:45 PM | *Age-dependent effects of childhood exposures on islet autoimmunity risk*Kendra Vehik, PhD |
| 2:45 PM – 3:10 PM | *Islet cellularity in health and disease*Ulf Ahlgren, PhD |
| 3:10 PM – 3:45 PM | **Discussion Session I - Key question 1:****Differences in T1D Between Children and Adults**Co-chairs: Sarah Richardson, PhD and Todd Brusko, PhD | *Aqualea Grand Ballroom* |
| 3:45 PM – 4:15 PM  | **BREAK** | -- |
| 4:15 PM – 5:40 PM  | **Cutting Edge Seminar II - Key Question 2:****Prohormone or Post Translational Antigenic Processing Defects in the T1D Pancreas**Co-chairs: Teresa Rodriguez-Calvo, PhD and Emily Sims, MD | *Aqualea Grand Ballroom* |
| 4:15 PM – 4:25 PM | **Key Question 2 Introduction**Teresa Rodriguez-Calvo, PhDEmily Sims, MD |
| 4:25 PM – 4:50 PM | *Causes and consequences of impaired islet prohormone processing in T1D*YC Chen, PhD |
| 4:50 PM – 5:15 PM | *T cell recognition of post-translationally modified and misprocessed prohormone peptides*Eddie James, PhD |
| 5:15 PM – 5:40 PM | *Plasticity in proglucagon processing in alpha-cells*Jonathan Campbell, PhD |
| 5:40 PM – 6:15 PM | **Discussion Session II: Key Question 2:****Prohormone or Post Translational Antigenic Processing Defects in the T1D Pancreas**Co-chairs: Teresa Rodriguez-Calvo, PhD and Emily Sims, MD | *Aqualea Grand Ballroom* |
| 6:15 PM – 6:30 PM | **BREAK** | -- |
| 6:30 PM – 7:15 PM | **George Eisenbarth Memorial Lecture****Åke Lernmark, MD, PhD***Molecular biology of type 1 diabetes etiology* | *Aqualea Grand Ballroom* |
| 7:15 PM – 8:15 PM | **OPENING RECEPTION**Light hors d’oeuvres provided | *Sky Terrace* |
| 8:15 PM | **DINNER** On your own / Opportunity for Networking | -- |

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| **Monday, March 3rd, 2025** |
| **Time** | **Function** | **Location** |
| 7:30 AM –4:30 PM | **REGISTRATION** | Lobby |
| 7:00 AM – 8:30 AM | **BREAKFAST** | *Belleair Room* |
| 7:30 AM –8:30 AM | **SPECIAL BREAKFAST MEETING****Women Inspiring and Elevating Leadership in Diabetes****(WIELD)**Amelia Linneman, PhDJessica Dunne, PhD | *Madeira Room* |
| 8:30 AM – 10:00 AM | **Cutting Edge Seminar III- Key Question 3:****Discussion III - Key Question 3:****The Role of the Exocrine Pancreas in T1D Development**Co-Chairs: Teresa Mastracci, PhD and Rebecca Hull, PhD | *Aqualea Grand Ballroom* |
| 8:30 AM – 8:45 AM | **Key Question 3 Introduction**Teresa Mastracci, PhDRebecca Hull, PhD |
| 8:45 AM – 9:10 AM | *Pancreatitis and diabetes: Overlap with type 1 DM*Melena Bellin, MD |
| 9:10 AM – 9:35 AM | *Engineered biomaterials to explore the islet-ECM axis*Nikki Farnsworth, PhD |
| 9:35 AM – 10:00 AM  | *Exocrine studies in the human pancreas slice*Herbert Gaisano, MD |
| 10:00 AM – 10:20 AM | **BREAK** | -- |
| 10:20 AM – 11:00 AM | **Discussion III - Key Question 3:****The Role of the Exocrine Pancreas in T1D Development**Co-Chairs: Rebecca Hull, PhD and Teresa Mastracci, PhD | *Aqualea Grand Ballroom* |
| 11:00 AM – 12:25 PM | **Oral Abstracts I: The Emerging Immune Landscape in Type 1 Diabetes**Co-Chairs: Maryaline Coffre, PhD and Dirk Homann, PhD | *Aqualea Grand Ballroom* |
| 11:00 AM – 11:10 AM  | *Efferocytosis pathways In islet myeloid cells suppress autoimmunity during type 1 diabetes*Kristen Wells, PhD |
| 11:10 AM– 11:20PM | *Public B cell clones are found in the peripheral blood and pancreatic lymph nodes of T1D donors*Jessica Prendergast, PhD |
| 11:20 PM – 11:30 PM | *Late breaking abstract* |
| 11:30 PM – 12:45 PM | ***NEW for 2025 -* Shark Tank “Breakthrough T1D Award for Innovation”****Early-Stage Investigator Competition** Competition Theme: “A breakthrough for T1D research”Chairs: Esther Latres, PhD & Mark Atkinson, PhDSharks: Ake Lernmark, MD, PhD, Lori Sussel, PhD, Timothy Tree, PhD, and Melena Bellin, PhDPresenters: TBD – Notified February 17, 2025 | *Aqualea Grand Ballroom* |
| 12:45 PM – 1:45 PM | **LUNCH** | *Belleair Room* |
| 1:45 PM – 3:35 PM | **Cutting Edge Seminar IV - Key Question 4:*****In Vivo* and *In Vitro* Translational Studies to Advance Therapies for T1D**Co-Chairs:Juan Dominguez-Bendala, PhD and Alberto Pugliese, MD | *Aqualea Grand Ballroom* |
| 1:45 PM – 1:55 PM | **Key Question 4 Introduction**Juan Dominguez-Bendala, PhD and Alberto Pugliese, MD |
| 1:55 PM – 2:20 PM | *Molecular architecture of pancreatic islet cells across sex*Fahd Qadir, PhD |
| 2:20 PM –2:45 PM | *Modeling type 1 diabetes in a vascularized 3D model of the human pancreatic islet*Chris Hughes, PhD  |
| 2:45 PM – 3:10 PM | *Mice with human immune system to study the thymic development of human beta cell antigen-reactive T cells and immune infiltration of stem cell-derived beta cells*Remi Creusot, PhD |
| 3:10 PM – 3:35 PM | *Modeling lymph node function and multi-organ immune responses in tissue slices and organs-on-chip*Rebecca Pompano, PhD |
| 3:35 PM – 3:55 PM | **BREAK** | -- |
| 3:55 PM – 4:30 PM | **Discussion IV - Key Question 4:*****In Vivo* and *In Vitro* Translational Studies to Advance Therapies for T1D**Co-Chairs: Juan Dominguez-Bendala, PhD and Alberto Pugliese, MD | *Aqualea Grand Ballroom* |
| 4:30 PM – 4:50 PM | **Oral Abstracts II: Cutting Edge Technologies in Immunology and Pathology**Co-Chairs: Josh Vieth, PhD and Jamie Felton, MD | *Aqualea Grand Ballroom* |
| 4:30 PM – 4:40 PM | *High-throughput TCR screening system for linking antigen specificity and phenotype of T cells involved in the pathogenesis of type 1 diabetes*Maki Nakayama, MD |
| 4:40 PM – 4:50 PM | *Spatial interrogation of the diabetic hallmarks and tissue composition of human pancreas in 2D and 3D using deep learning models*Yu Shen, PhD |
| 4:50 PM – 5:00 PM | *Integrated histopathology of the human pancreas throughout stages of type 1 diabetes progression*Verena van der Heide, PhD |
| 5:00 PM – 5:10 PM | *Stem cell-derived pancreatic β-cells overexpressing CD155 demonstrate enhanced protection from killing by antigen-specific T cells*Matthew Brown, BS |
| 5:10 PM – 5:20 PM | *Mapping the human pancreas by imaging mass cytometry reveals early dysregulation in the endocrine and immune compartment in type 1 diabetes progression*Nathan Steenbuck, PhD |
|  | 5:20 PM – 5:30 PM | *Late Breaking Abstract* |  |
| 5:30 PM – 7:00 PM | **FREE TIME / NETWORKING****INCLUDES ANNUAL MEETING PHOTO at Sunset***(Est. 6:30pm)*Organized by Alberto Pugliese, MD | -- |
| 7:00 PM – 10:00 PM | **DINNER, AWARDS CEREMONY & nPOD HAS TALENT** | *Sky Terrace* |

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| **Tuesday, March 4th, 2025**  |
| **Time** | **Function** | **Location** |
| 7:00 AM – 8:30 AM | **BREAKFAST** | *Belleair Room* |
| 8:30 AM – 10:20 AM | **Cutting Edge Seminar V - Key Question 5:****β- and Islet-Cell Specific Targets**Co-Chairs: Roberto Mallone, MD, PhD and Qizhi Tang, PhD | *Aqualea Grand Ballroom* |
| 8:30 AM – 8:40 AM | **Key Question 5 Introduction**Roberto Mallone, MD, PhDQizhi Tang, PhD |
| 8:40 AM – 9:05 AM  | *Islet-derived CD8+ T cells from donors with type 1 diabetes: function and reactivity*Sally Kent, PhD |
| 9:05 AM – 9:30 AM | *Targeted modulation of beta cell biology by bifunctional RNA therapeutics*Paolo Serafini, PhD |
| 9:30 AM – 9:55 AM | *Identification of T cell epitopes in T1D using synthetic immunology*Alok Joglekar, PhD  |
| 9:55 AM – 10:20 AM | *Beta-cell senescence in T1D: Friend or foe?*Feyza Engin, PhD |
| 10:20 AM – 10:55 AM | **Discussion V - Key Question 5:****β- and Islet-Cell Specific Targets**Co-Chairs: Roberto Mallone, MD PhD and Qizhi Tang, PhD | *Aqualea Grand Ballroom* |
| 10:55 AM – 11:25 AM | **BREAK** | -- |
| 11:25 AM – 12:30PM | **Lightning Poster Presentations**Sylvane You, PhD and Klaus Kaestner, PhD | *Aqualea Grand Ballroom* |
| 12:30 PM –1:45 PM | **LUNCH and BREAK** | *Belleair Room* |
| 1:45PM –2:30 PM | **HIRN Update**Al Powers, MD | *Aqualea Grand Ballroom* |
| 2:30 PM – 3:55 PM | **Cutting Edge Seminar VI - Key Question 6:****How Can nPOD Studies Better Guide Clinical Trials Seeking to Understand Disease and Racial Diversity?**Co-Chairs: Maria Redondo, MD, PhD and Richard Oram, MD, PhD | *Aqualea Grand Ballroom* |
| 2:30 PM – 2:40 PM | **Key Question 6 Introduction**Maria Redondo, MD, PhDRichard Oram, MD, PhD |
| 2:40 PM – 3:05 PM | *Sex differences in response to beta-cell inflammation in T1D*Raghu Mirmira, MD, PhD |
| 3:05 PM – 3:30 PM | *T1D in Africa: Different in so many ways*JC Katte, MD |
| 3:30 PM – 3:55 PM | *What does diversity in nPOD look like?*Irina Kusmartseva, PhDJohn Kaddis, PhD |
| 3:55 PM – 4:30 PM | **Discussion Session VI - Key Question 6:****How Can nPOD Studies Better Guide Clinical Trials Seeking to Understand Disease and Racial Diversity?**Co-Chairs: Maria Redondo, MD, PhD and Richard Oram, MD PhD | *Aqualea Grand Ballroom* |
| 4:30 PM – 6:00 PM | **BREAK** | -- |
| 6:00 PM – 9:00 PM  | **Poster Session***(Heavy hors d'oeuvres provided)* | *Siesta Key Room* |
| 9:00 PM | **DINNER (on your own)** | -- |

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| **Wednesday, March 5th, 2025 (Half day)** |
| **Time** | **Function** | **Location** |
| 7:00 AM – 8:30 AM | **BREAKFAST & CHECKOUT****Hotel checkout is 11 AM**If checking out today, please bring luggage to the back of the meeting room for the remainder of the meeting.***Note: Breakfast will only be served from 7:00 AM – 8:30 AM*** | *Belleair Room* |
| 7:30 AM -8:30 AM | **nPOD/SAB Meeting** | TBD |
| 8:30 AM – 9:20 AM | **Oral Abstracts III: Islet cell heterogeneity in T1D pathogenesis**Co-Chairs: Bruce Verchere, PhD, and Anna Casu, MD | *Aqualea Grand Ballroom* |
| 8:30 AM – 8:40 AM | *Are we missing something? Do the small things matter? Loss of extra-islet beta cells in Type 1 diabetes*Teifion Luckett, PhD |
| 8:40 AM –8:50 AM | *Heterogeneity of β Cell extracellular vesicles in T1D: PD-L1 and HLA class I mediated immunomodulation*Chaitra Rao, PhD |
| 8:50 AM –9:00 AM | *β cell heterogeneity in the acute IFN-α response*Leslie Wagner, PhD |
| 9:00 AM – 9:10 AM | *Chromogranins and secretogranins in the pathogenesis of type 1 diabetes*Patricia Velado, PhD |
| 9:10 AM – 9:20 AM | *Functional heterogeneity of alpha cells*Julia Panzer, PhD |
| 9:20 AM – 10:00 AM | **BREAK / CHECK OUT** | -- |
| 10:00 AM – 10:45 AM | **Innovation Lecture***MALDI imaging-directed spatial biology: A new lens to redefine Alzheimer’s disease research and therapeutic directions*Ramon Sun, PhD | *Location* |
| 10:45 AM – 11:00 AM | **What questions were not asked that should have been asked?**Co-ChairsMark Atkinson, PhD Alberto Pugliese, MD Carmella Evans-Molina, MD PhD  | *Aqualea Grand Ballroom* |
| 11:00 AM –11:15 AM | **Closing Remarks** | *Aqualea Grand Ballroom* |
| **END OF MEETING** |

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