



Sunday, March 2 nd , 2025		
Time	Function	Location
10:00 AM – 5:30 PM	REGISTRATION	Lobby
12:00 PM – 1:30 PM	LUNCH Open to all registered attendees	<i>Location TBD</i>
12:00 PM – 1:30 PM	Young Investigator Meet-and-Greet A special program open to all young investigators Prior registration requested but not required	<i>Location TBD</i>
1:30 PM – 1:45 PM	Opening Remarks - Looking backward to guide our steps forward Carmella Evans-Molina, MD, PhD	<i>Aqualea Grand Ballroom</i>
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	
	1:45 PM – 1:55 PM	Key Question 1 Introduction Sarah Richardson, PhD Todd Brusko, PhD
	1:55 PM – 2:20 PM	<i>Development of adaptive immunity during childhood</i> Joshua Gray, PhD
	2:20 PM – 2:45 PM	<i>Age-dependent effects of childhood exposures on islet autoimmunity risk</i> Kendra Vehik, PhD
	2:45 PM – 3:10 PM	<i>Islet cellularity in health and disease</i> 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	
		<i>Aqualea Grand Ballroom</i>

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		<i>Aqualea Grand Ballroom</i>
	4:15 PM – 4:25 PM	Key Question 2 Introduction Teresa Rodriguez-Calvo, PhD Emily Sims, MD	
	4:25 PM – 4:50 PM	<i>Causes and consequences of impaired islet prohormone processing in T1D</i> YC Chen, PhD	
	4:50 PM – 5:15 PM	<i>T cell recognition of post-translationally modified and misprocessed prohormone peptides</i> Eddie James, PhD	
	5:15 PM – 5:40 PM	<i>Plasticity in proglucagon processing in alpha-cells</i> 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		<i>Aqualea Grand Ballroom</i>
6:15 PM – 6:30 PM	BREAK		--
6:30 PM – 7:15 PM	George Eisenbarth Memorial Lecture Åke Lernmark, MD, PhD <i>Molecular biology of type 1 diabetes etiology</i>		<i>Aqualea Grand Ballroom</i>
7:15 PM – 8:15 PM	OPENING RECEPTION Light hors d'oeuvres provided		<i>Sky Terrace</i>
8:15 PM	DINNER On your own / Opportunity for Networking		--

Monday, March 3rd, 2025

Time	Function		Location
7:30 AM – 4:30 PM	REGISTRATION		Lobby
7:00 AM – 8:30 AM	BREAKFAST		<i>Belleair Room</i>
7:30 AM – 8:30 AM	<p align="center">SPECIAL BREAKFAST MEETING Women Inspiring and Elevating Leadership in Diabetes (WIELD) Amelia Linneman, PhD Jessica Dunne, PhD</p>		<i>Madeira Room</i>
8:30 AM – 10:00 AM	<p align="center">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</p>		<i>Aqualea Grand Ballroom</i>
	8:30 AM – 8:45 AM	<p align="center">Key Question 3 Introduction Teresa Mastracci, PhD Rebecca Hull, PhD</p>	
	8:45 AM – 9:10 AM	<p align="center"><i>Pancreatitis and diabetes: Overlap with type 1 DM</i> Melena Bellin, MD</p>	
	9:10 AM – 9:35 AM	<p align="center"><i>Engineered biomaterials to explore the islet-ECM axis</i> Nikki Farnsworth, PhD</p>	
	9:35 AM – 10:00 AM	<p align="center"><i>Exocrine studies in the human pancreas slice</i> Herbert Gaisano, MD</p>	
10:00 AM – 10:20 AM	BREAK		--
10:20 AM – 11:00 AM	<p align="center">Discussion III - Key Question 3: The Role of the Exocrine Pancreas in T1D Development Co-Chairs: Rebecca Hull, PhD and Teresa Mastracci, PhD</p>		<i>Aqualea Grand Ballroom</i>

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		<i>Aqualea Grand Ballroom</i>
	11:00 AM – 11:10 AM	<i>Efferocytosis pathways In islet myeloid cells suppress autoimmunity during type 1 diabetes</i> Kristen Wells, PhD	
	11:10 AM – 11:20PM	<i>Public B cell clones are found in the peripheral blood and pancreatic lymph nodes of T1D donors</i> Jessica Prendergast, PhD	
	11:20 PM – 11:30 PM	<i>Late breaking abstract</i>	
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, PhD Sharks: Ake Lernmark, MD, PhD, Lori Sussel, PhD, Timothy Tree, PhD, and Melena Bellin, PhD Presenters: TBD – Notified February 17, 2025		<i>Aqualea Grand Ballroom</i>
12:45 PM – 1:45 PM	LUNCH		<i>Belleair Room</i>
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		<i>Aqualea Grand Ballroom</i>
	1:45 PM – 1:55 PM	Key Question 4 Introduction Juan Dominguez-Bendala, PhD and Alberto Pugliese, MD	
	1:55 PM – 2:20 PM	<i>Molecular architecture of pancreatic islet cells across sex</i> Fahd Qadir, PhD	
2:20 PM – 2:45 PM	<i>Modeling type 1 diabetes in a vascularized 3D model of the human pancreatic islet</i> Chris Hughes, PhD		

	2:45 PM – 3:10 PM	<i>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</i> Remi Creusot, PhD	
	3:10 PM – 3:35 PM	<i>Modeling lymph node function and multi-organ immune responses in tissue slices and organs-on-chip</i> Rebecca Pompano, PhD	
3:35 PM – 3:55 PM	BREAK		--
3:55 PM – 4:30 PM	Discussion IV - Key Question 4: <i>In Vivo and In Vitro</i> Translational Studies to Advance Therapies for T1D Co-Chairs: Juan Dominguez-Bendala, PhD and Alberto Pugliese, MD		<i>Aqualea Grand Ballroom</i>
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		<i>Aqualea Grand Ballroom</i>
	4:30 PM – 4:40 PM	<i>High-throughput TCR screening system for linking antigen specificity and phenotype of T cells involved in the pathogenesis of type 1 diabetes</i> Maki Nakayama, MD	
	4:40 PM – 4:50 PM	<i>Spatial interrogation of the diabetic hallmarks and tissue composition of human pancreas in 2D and 3D using deep learning models</i> Yu Shen, PhD	
	4:50 PM – 5:00 PM	<i>Integrated histopathology of the human pancreas throughout stages of type 1 diabetes progression</i> Verena van der Heide, PhD	
	5:00 PM – 5:10 PM	<i>Stem cell-derived pancreatic β-cells overexpressing CD155 demonstrate enhanced protection from killing by antigen-specific T cells</i> Matthew Brown, BS	
	5:10 PM – 5:20 PM	<i>Mapping the human pancreas by imaging mass cytometry reveals early dysregulation in the endocrine and immune compartment in type 1 diabetes progression</i> Nathan Steenbuck, PhD	

	5:20 PM – 5:30 PM	<i>Late Breaking Abstract</i>	
5:30 PM – 7:00 PM	FREE TIME / NETWORKING INCLUDES ANNUAL MEETING PHOTO at Sunset <i>(Est. 6:30pm)</i> Organized by Alberto Pugliese, MD		--
7:00 PM – 10:00 PM	DINNER, AWARDS CEREMONY & nPOD HAS TALENT		<i>Sky Terrace</i>

Tuesday, March 4th, 2025			
Time	Function		Location
7:00 AM – 8:30 AM	BREAKFAST		<i>Belleair Room</i>
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		<i>Aqualea Grand Ballroom</i>
	8:30 AM – 8:40 AM	Key Question 5 Introduction Roberto Mallone, MD, PhD Qizhi Tang, PhD	
	8:40 AM – 9:05 AM	<i>Islet-derived CD8+ T cells from donors with type 1 diabetes: function and reactivity</i> Sally Kent, PhD	
	9:05 AM – 9:30 AM	<i>Targeted modulation of beta cell biology by bifunctional RNA therapeutics</i> Paolo Serafini, PhD	
	9:30 AM – 9:55 AM	<i>Identification of T cell epitopes in T1D using synthetic immunology</i> Alok Joglekar, PhD	
	9:55 AM – 10:20 AM	<i>Beta-cell senescence in T1D: Friend or foe?</i> Feyza Engin, PhD	

10:20 AM – 10:55 AM	<p align="center">Discussion V - Key Question 5: β- and Islet-Cell Specific Targets</p> <p align="center">Co-Chairs: Roberto Mallone, MD PhD and Qizhi Tang, PhD</p>		<i>Aqualea Grand Ballroom</i>
10:55 AM – 11:25 AM	<p align="center">BREAK</p>		--
11:25 AM – 12:30PM	<p align="center">Lightning Poster Presentations</p> <p align="center">Sylvane You, PhD and Klaus Kaestner, PhD</p>		<i>Aqualea Grand Ballroom</i>
12:30 PM – 1:45 PM	<p align="center">LUNCH and BREAK</p>		<i>Belleair Room</i>
1:45PM – 2:30 PM	<p align="center">HIRN Update</p> <p align="center">AI Powers, MD</p>		<i>Aqualea Grand Ballroom</i>
2:30 PM – 3:55 PM	<p align="center">Cutting Edge Seminar VI - Key Question 6: How Can nPOD Studies Better Guide Clinical Trials Seeking to Understand Disease and Racial Diversity?</p> <p align="center">Co-Chairs: Maria Redondo, MD, PhD and Richard Oram, MD, PhD</p>		<i>Aqualea Grand Ballroom</i>
	2:30 PM – 2:40 PM	<p align="center">Key Question 6 Introduction</p> <p align="center">Maria Redondo, MD, PhD Richard Oram, MD, PhD</p>	
	2:40 PM – 3:05 PM	<p align="center"><i>Sex differences in response to beta-cell inflammation in T1D</i></p> <p align="center">Raghu Mirmira, MD, PhD</p>	
	3:05 PM – 3:30 PM	<p align="center"><i>T1D in Africa: Different in so many ways</i></p> <p align="center">JC Katte, MD</p>	
	3:30 PM – 3:55 PM	<p align="center"><i>What does diversity in nPOD look like?</i></p> <p align="center">Irina Kusmartseva, PhD John Kaddis, PhD</p>	
3:55 PM – 4:30 PM	<p align="center">Discussion Session VI - Key Question 6: How Can nPOD Studies Better Guide Clinical Trials Seeking to Understand Disease and Racial Diversity?</p> <p align="center">Co-Chairs: Maria Redondo, MD, PhD and Richard Oram, MD PhD</p>		<i>Aqualea Grand Ballroom</i>
4:30 PM – 6:00 PM	<p align="center">BREAK</p>		--

6:00 PM – 9:00 PM	Poster Session <i>(Heavy hors d'oeuvres provided)</i>	<i>Siesta Key Room</i>
9:00 PM	DINNER (on your own)	--

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	<i>Belleair Room</i>	
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	<i>Aqualea Grand Ballroom</i>	
	8:30 AM – 8:40 AM		<i>Are we missing something? Do the small things matter? Loss of extra-islet beta cells in Type 1 diabetes</i> Teifion Lockett, PhD
	8:40 AM – 8:50 AM		<i>Heterogeneity of β Cell extracellular vesicles in T1D: PD-L1 and HLA class I mediated immunomodulation</i> Chaitra Rao, PhD
	8:50 AM – 9:00 AM		<i>β cell heterogeneity in the acute IFN-α response</i> Leslie Wagner, PhD
	9:00 AM – 9:10 AM		<i>Chromogranins and secretogranins in the pathogenesis of type 1 diabetes</i> Patricia Velado, PhD
9:10 AM – 9:20 AM	<i>Functional heterogeneity of alpha cells</i> Julia Panzer, PhD		
9:20 AM – 10:00 AM	BREAK / CHECK OUT	--	

10:00 AM – 10:45 AM	<p style="text-align: center;">Innovation Lecture</p> <p style="text-align: center;"><i>MALDI imaging-directed spatial biology: A new lens to redefine Alzheimer’s disease research and therapeutic directions</i></p> <p style="text-align: center;">Ramon Sun, PhD</p>	<i>Location</i>
10:45 AM – 11:00 AM	<p style="text-align: center;">What questions were not asked that should have been asked?</p> <p style="text-align: center;">Co-Chairs</p> <p style="text-align: center;">Mark Atkinson, PhD</p> <p style="text-align: center;">Alberto Pugliese, MD</p> <p style="text-align: center;">Carmella Evans-Molina, MD PhD</p>	<i>Aqualea Grand Ballroom</i>
11:00 AM – 11:15 AM	<p style="text-align: center;">Closing Remarks</p>	<i>Aqualea Grand Ballroom</i>

END OF MEETING

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