



Tuesday, February 19, 2019		
Time	Function	Location
10:00 AM – 6:45 PM	REGISTRATION	Great Hall Foyer (Convention Center, 3 rd Floor)
12:00 PM – 12:15 PM	Opening Remarks: Mark Atkinson, PhD nPOD Executive Director	Great Hall 1 (Convention Center, 3 rd Floor)
12:15 PM – 2:15 PM	Cutting Edge Seminar I: Islet Cell Biology and Implications for Type 1 Diabetes Co-Chairs: Maike Sander & Patrick MacDonald	
	12:15 PM – 12:45 PM	Peter Arvan, MD, PhD University of Michigan <i>The Unfolding Story About Proinsulin</i>
	12:45 PM – 1:15 PM	Bruce Verchere, PhD University of British Columbia <i>IAPP: trigger and biomarker in diabetes?</i>
	1:15 PM – 1:45 PM	Emily Sims, MD Indiana University <i>“Circulating proinsulin levels can provide insight into beta cell stress during the evolution of T1D”</i>
1:45 PM – 2:15 PM	Discussion Session I: Islet Cell Biology and Implications for Type 1 Diabetes Led by: Maike Sander & Patrick MacDonald	
2:15 PM – 2:45 PM	BREAK	Great Hall Foyer (Convention Center, 3 rd Floor)

	Oral Abstracts I: Lessons from NOD Mice Co-Chairs: Maggie Morris and Matthias von Herrath		
	2:45 PM – 3:00 PM	0-13: Stefan Mihaela, PhD Mount Sinai School of Medicine <i>Mechanisms that Control Changes in DNA Methylation and Hydroxymethylation induced by Interferon alpha in B cells: Implications for Type 1 Diabetes</i>	
	3:00 PM – 3:15 PM	0-19: Jamie Felton, MD Indiana University <i>Metabolic Phenotyping of Islet-Infiltrating Lymphocytes in Type 1 Diabetes</i>	
2:45 PM – 4:00 PM	3:15 PM – 3:30 PM	LB-11: Luc Teyton, MD, PhD Scripps Research <i>Role of Dietary Insults and Lymphangiogenesis in the Initiation of T1D in NOD Mice and Human</i>	Great Hall 1 (Convention Center, 3 rd Floor)
	3:30 PM – 3:45 PM	LB-04: Todd Zion, PhD Akston Biosciences Corporation <i>An Insulin-Specific B Cell Deletional Immunotherapy, AKS107, for Prevention of Type 1 Diabetes</i>	
	3:45 PM – 4:00 PM	LB-31 Karsten Buschard, MD Bartholin Institute <i>Sphingolipids in the pathogenesis of Type 1 Diabetes</i>	
4:00 PM – 5:00 PM	Oral Abstracts II: Immunology Co-Chairs: Eddie James & Katie Haskins		Great Hall 1 (Convention Center, 3 rd Floor)

	4:00 PM – 4:15 PM	<p>O-17: Rocky Baker University of Colorado <i>Characterization of T Cells Reactive to Hybrid Insulin Peptides in Type 1 Diabetes Patients</i></p>	
	4:15 PM – 4:30 PM	<p>LB-08: Sarah Richardson, PhD University of Exeter <i>Comprehensive histopathology of insulinitis in young-onset Type 1 diabetes: To ‘B’ or not to ‘B’ – that is the question...?</i></p>	
	4:30 PM – 4:45 PM	<p>O-36: Klaus Kaestner, PhD University of Pennsylvania <i>Multiplexed in Situ Imaging Mass Cytometry Analysis of the Human Endocrine Pancreas and Immune System in Type 1 Diabetes</i></p>	
	4:45 PM – 5:00 PM	<p>O-20: Brian Fife, PhD University of Minnesota <i>Interferon-Gamma Drives Programmed Death-Ligand 1 Expression on Islet β Cells to Limit T Cell Function During Autoimmune Diabetes</i></p>	
	5:00 PM – 5:15 PM	<p>O-23: Alberto Japp, PhD University of Pennsylvania <i>Tissue-Resident T1D Specific Memory CD8+ T Cells are Enriched in Pancreatic Islets and Draining Lymph Nodes of Diabetic and Auto-Antibody Positive Donors</i></p>	
5:15 PM – 6:00 PM	BREAK		----
6:00 PM – 6:45 PM	RECEPTION (hors d’oeuvres provided)		Great Hall Foyer (Convention Center, 3 rd Floor)

<p>6:45 PM – 7:30 PM</p>	<p>George Eisenbarth Memorial Lecture: Emil Unanue, MD Washington University <i>Beta Cell Crinosomes Maintain Homeostasis but Promote Autoimmunity</i></p>	<p>Great Hall 1 (Convention Center, 3rd Floor)</p>
<p>7:30 PM</p>	<p>DINNER (on your own)</p>	<p>----</p>

Wednesday, February 20, 2019

Time	Function		Location
7:00 AM – 5:00 PM	REGISTRATION		Great Hall Foyer (Convention Center, 3 rd Floor)
7:00 AM – 8:00 AM	BREAKFAST		Great Hall Foyer (Convention Center, 3 rd Floor)
8:00 AM – 8:45 AM	Keynote Address: Michael Snyder, PhD Stanford University <i>“Applying Big Data to Human Health”</i>		Great Hall 1 (Convention Center, 3 rd Floor)
8:45 AM – 10:15 AM	Cutting Edge Seminar II: Autoimmunity / Pathogenesis Co-Chairs: Bart Roep & Alice Long		Great Hall 1 (Convention Center, 3 rd Floor)
	8:45 AM – 9:15 AM	Roberto Mallone, MD, PhD INSERM Cochin Institute <i>Of Pancreas and Not Blood: A T-Cell Viewpoint</i>	
	9:15 AM – 9:45 AM	Jane Buckner, MD Benaroya Research Institute <i>Need Title</i>	
	9:45 AM – 10:15 AM	Yuval Dor, PhD The Hebrew University of Jerusalem <i>Need Title</i>	
10:15 AM – 10:30 AM	BREAK		Great Hall Foyer (Convention Center, 3 rd Floor)
10:30 AM – 11:00 AM	Discussion Session II: Autoimmunity in Type 1 Diabetes Led by: Bart Roep & Alice Long		Great Hall 1 (Convention Center, 3 rd Floor)

	nPOD Working Group Presentations: nPOD-Autoimmunity Co-Chairs: Todd Brusko & Sally Kent		
11:00 AM – 12:00 PM	11:00 AM – 11:15 AM	O-28: Andrea, Vecchione San Raffaele Scientific Institute <i>Follicular Regulatory T Cells are Reduced in Pancreatic Lymph Nodes of Patients with T1D</i>	Great Hall 1 (Convention Center, 3 rd Floor)
	11:15 AM – 11:30 AM	O-29: Leana Peters University of Florida <i>Unsupervised Clustering of High Parameter Mass Cytometry Data Reveals Immune Heterogeneity in T1D</i>	
	11:30 AM – 12:00 PM	Sally Kent, PhD University of Massachusetts <i>Integrating what have we learned about islet autoimmunity from blood, lymphoid tissues and pancreas & Discussion and Future Directions</i>	
12:00 PM – 1:00 PM	LUNCH		Great Hall Foyer (Convention Center, 3 rd Floor)
1:00 PM – 2:30 PM	Cutting Edge Seminar III: Lessons from Other Diseases Co-Chairs: Jane Buckner & David Leslie		
	1:00 PM – 1:30 PM	Antoinette Moran, MD University of Minnesota <i>Cystic Fibrosis Related Diabetes</i>	
	1:30 PM – 2:00 PM	Kevan Herold, MD Yale University <i>Beta cell responses to inflammatory mediators in checkpoint inhibitor induced diabetes</i>	

	2:00 PM – 2:30 PM	Jim Riley, PhD University of Pennsylvania <i>Can CAR expressing T regulatory cells promote durable tolerance of islet transplants?</i>	
2:30 PM – 3:00 PM	Discussion Session III: Lessons from Other Diseases Co-Chairs: Jane Buckner & David Leslie		Great Hall 1 (Convention Center, 3 rd Floor)
3:00 PM – 3:15 PM	BREAK		Great Hall Foyer (Convention Center, 3 rd Floor)
3:15 PM – 4:30 PM	Oral Abstracts III: β Cell Biology Co-Chairs: Peter Avan & Raghu Mirmira		Great Hall 1 (Convention Center, 3 rd Floor)
	3:15 PM – 3:30 PM	O-03: Courtney Ackeifi, PhD Icahn School of Medicine at Mount Sinai <i>Dual DYRK1A-GLP1R Modulation Synergistically and Dramatically Increases Human Beta Cell Proliferation and Numbers in Vivo and in Vitro in Normal Islet Donors and in Type 2 Diabetes</i>	
	3:30 PM – 3:45 PM	O-12: Edward Phelps, PhD University of Florida <i>Mechanism and Effects of Pulsatile GABA Secretion from Cytosolic Pools in the Human Beta Cell</i>	
	3:45 PM – 4:00 PM	O-14: Irina Stefana, PhD University of Oxford <i>Investigating the Role of Nuclear Versus Cytoplasmic Hyperphosphorylated Tau in Human β Cells During Ageing and Diabetes</i>	
	4:00 PM – 4:15 PM	O-31: Sayed Farooq, PhD Indiana University School of Medicine	

		<i>Comprehensive Analysis of Micro-RNA Expression Profiles in Human Islets and Islet Derived Exosomes During Cytokine Mediated β Cell Stress and Death</i>	
	4:15 PM – 4:30 PM	LB-07: Bart Roep, PhD Beckman Research Institute <i>Expression of Alternatively Spliced Insulin Gene Products in Non-Beta Cells in Human Pancreatic Islets</i>	
4:30 PM – 7:00 PM	FREE TIME		----
7:00 PM – 10:00 PM	DINNER & AWARDS CEREMONY nPOD Has Talent IV		South Palm Court (Lobby Level, Outdoors)

Thursday, February 21, 2019

Time	Function		Location
7:00 AM – 8:00 AM	BREAKFAST		Great Hall Foyer (Convention Center, 3 rd Floor)
8:00 AM – 9:30 AM	Cutting Edge Seminar IV: Beta Cells / Stem Cells Co-Chairs: David Harlan & Al Powers		Great Hall 1 (Convention Center, 3 rd Floor)
	8:00 AM – 8:30 AM	Les Satin, PhD University of Michigan <i>The Underlying Basis of Pulsatile Insulin Secretion: Mechanisms, Models, and Modes</i>	
	8:30 AM – 9:00 AM	Maïke Sander, MD University of California, San Diego <i>Insights into islet cell gene regulation from single-cell analyses</i>	
	9:00 AM – 9:30 AM	Matthias Hebrok, PhD University of California, San Francisco <i>Using Stem Cells to Probe Human Beta Cell Biology</i>	
9:30 AM – 10:00 AM	Discussion Session IV: Beta Cells / Stem Cells Led by: David Harlan & Al Powers		Great Hall 1 (Convention Center, 3 rd Floor)
10:00 AM – 10:15 AM	BREAK		Great Hall Foyer (Convention Center, 3 rd Floor)
10:15 AM – 11:30 AM	nPOD Working Group Presentations: nPOD-Virus Co-Chairs: Maria Craig & Sarah Richardson		Great Hall 1 (Convention Center, 3 rd Floor)
	10:15 AM – 10:30 AM	O-49: Teresa Rodriguez-Calvo, DVM, PhD Helmholtz Zentrum München <i>The JDRF nPOD-Virus Group: Association of Type 1 Diabetes with Viral Markers as Triggers of Disease</i>	

	10:30 AM – 10:45 AM	O-07: Ivan Gerling, University of Tennessee <i>Activation of Toll Like Receptor Pathways in Insulitic Islets of Type 1 Diabetes</i>	
	10:45 AM – 11:00 AM	O-50: Antonio Toniolo, PhD Ospedale di Circolo <i>High Frequency Detection of Enteroviruses in Spleen and Peripheral Blood Leukocytes of People with Diabetes of Short and Long Duration</i>	
	11:00 AM – 11:15 AM	LB-19: Alexia Carré, MSc INSERM Cochin Institute <i>Coxsackievirus-infected human beta cells display selected viral sequences on their HLA Class I molecules</i>	
	Oral Abstracts IV: Pathogenesis Co-Chairs: John Kappler & Malin Flodstrom-Tullberg		
11:30 AM – 12:30 PM	11:30 AM – 11:45 AM	O-42: Wei-Jun Qian, PhD Pacific Northwest National Laboratory <i>Nanoscale Deep Proteome Profiling of Pancreatic Islets from Presymptomatic Autoantibody Positive and T1D Subjects</i>	
	11:45 AM – 12:00 PM	LB-28: Matthias Von Herrath, PhD La Jolla Institute for Immunology / Novo Nordisk <i>Detection and characterization of antigen- specific CD8 T cells in the exocrine and endocrine pancreas of non-diabetic and diabetic donors</i>	
	12:00 PM – 12:15 PM	O-47: Clive Wasserfall, MSc	

		<p align="center">University of Florida <i>Monogenic Diabetes and Integrative Stress Response Genes are Differentially Expressed in Multifactorial Type 1 Diabetes with a Distinctive Pattern in Autoantibody Positive Human Pancreata</i></p>	
	12:15 PM – 12:30 PM	<p align="center">O-30: Adam Swensen, PhD Pacific Northwest National Laboratory <i>Evidence of Incomplete Prohormone Processing in Type 1 Diabetes from Mass Spectrometry Based Proteomics</i></p>	
12:30 PM – 1:30 PM	LUNCH		Great Hall Foyer (Convention Center, 3 rd Floor)
1:30 PM – 2:45 PM	<p>nPOD Working Group Presentations: nPOD-Slice Co-Chairs: Stephan Speier & Alejandro Caicedo</p>		Great Hall 1 (Convention Center, 3 rd Floor)
	1:30 PM – 1:35 PM	<p align="center">Introduction Stephan Speier Technische Universitat Dresden</p>	
	1:35 PM – 1:50 PM	<p align="center">O-37: Christian Cohrs Helmholtz Zentrum München <i>Human Pancreas Tissue Slices from nPOD Organ Donors Provide a Comprehensive and Novel Insight into T1D Pathogenesis</i> *(includes data from abstract 038)*</p>	
	1:50PM – 2:05 PM	<p align="center">O-33: Joana Almaca/Sirlene Cechin University of Miami <i>Assessment of Viability, Endocrine Function and Calcium Signaling in Pancreas Slices Generated at a Remote Site and First Side-By-Side Evaluation of Insulin and Glucagon</i></p>	

		<i>Secretion in Pancreas Slices and Isolated Islets from the Same Donor</i>	
	2:05 PM – 2:20 PM	O-48: Edward Phelps, PhD & Clayton Mathews, PhD University of Florida <i>Live Human Pancreas Tissue Slices as a Platform for Investigating the Immunopathological Processes of Type 1 Diabetes</i>	
	2:20 PM – 2:45 PM	O-34 Juan Dominguez-Bendala, PhD University of Miami <i>Long-Term Culture of Human Pancreatic Slices as a Model to Study Real-Time Islet Regeneration</i>	
2:35 PM – 2:45 PM	<i>Discussion and Future Directions</i>		
2:45 PM – 3:00 PM	BREAK		
	nPOD Working Group Presentations: nPOD-IIP/Autoimmunity II Co-Chairs: Clayton Mathews & Alberto Pugliese		
	3:00 PM – 3:15 PM	LB-06 Maki Nakayam, PhD <i>Reactivity to Pre-proinsulin and Insulin-DRiP by CD8 T Cells in the Islets of Type1 Diabetes Organ Donors</i>	
3:00 PM – 4:00 PM	3:15 PM – 3:30 PM	O-22: Eddie James, PhD Benaroya Research Institue <i>HLA multimer-based characterization of islet specific CD4+ T cells that target beta cell epitopes and neo-epitopes</i>	Great Hall 1 (Convention Center, 3 rd Floor)

	3:30 PM – 4:00 PM	Clayton Mathews & Alberto Pugliese Co-Chair Discussion <i>Update on the nPOD-IIP, Discussion and Future Directions</i>	
4:00 PM – 6:00 PM	FREE TIME		----
6:00 PM – 8:00 PM	Poster Session (hors d'oeuvres provided)		Great Hall 2 (Convention Center, 3 rd Floor)
8:00 PM	DINNER (on your own)		----

Friday, February 22, 2019 (Half day)

Time	Function	Location
7:00 AM – 8:45 AM	BREAKFAST & CHECKOUT Hotel checkout is 11 AM If checking out today, please bring luggage to the registration table for the remainder of the meeting.	Great Hall Foyer (Convention Center, 3 rd Floor)
8:45 AM – 10:15 AM	Cutting Edge Seminar V: Emerging Technologies Co-Chairs: Carmella Evans-Molina & Olivier Blondel	Great Hall 1 (Convention Center, 3 rd Floor)
	8:45 AM – 9:15 AM Patrick MacDonald, PhD University of Alberta <i>Linking Function and Transcriptomes of Single Human Islet Cells</i>	
	9:15 AM – 9:45 AM Long Cai, PhD California Institute of Technology Need Title	
	9:45 AM – 10:15 AM Nikolay Ninov Technische Universität Dresden <i>"Pathways to pancreatic beta-cell failure and regeneration: learning using single-cell analysis in zebrafish and translating to human"</i>	
10:15 AM – 10:45 AM	Discussion Session V: Emerging Technologies Led by: Carmella Evans Molina & Olivier Blondel	Great Hall 1 (Convention Center, 3 rd Floor)
10:45 AM – 11:00 AM	BREAK	
11:00AM – 11:15 AM	Pancreas Atlas Database – Juvenile AI Powers Vanderbilt University	Great Hall 1 (Convention Center, 3 rd Floor)

11:15 AM – 11:30 AM	HPAP Update Klaus Kaestner, PhD University of Pennsylvania	Great Hall 1 (Convention Center, 3 rd Floor)
11:30 AM – 11:45AM	Big Data – nPOD Data Group and NIH Resources Bobbie-Jo Webb-Robertson, PhD Pacific Northwest National Laboratory	Great Hall 1 (Convention Center, 3 rd Floor)
11:45 AM – 12:00 PM	Looking Forward & Closing Remarks Alberto Pugliese, MD & Carmella Evans Molina, MD, PhD nPOD Co-Executive Directors	Great Hall 1 (Convention Center, 3 rd Floor)
END OF MEETING		

