



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

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

	4:00 PM – 4:15 PM	<p><b>O-17:</b> <b>Rocky Baker</b> <b>University of Colorado</b> <i>Characterization of T Cells Reactive to Hybrid Insulin Peptides in Type 1 Diabetes Patients</i></p>	
	4:15 PM – 4:30 PM	<p><b>LB-08:</b> <b>Sarah Richardson, PhD</b> <b>University of Exeter</b> <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><b>O-36:</b> <b>Klaus Kaestner, PhD</b> <b>University of Pennsylvania</b> <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><b>O-20:</b> <b>Brian Fife, PhD</b> <b>University of Minnesota</b> <i>Interferon-Gamma Drives Programmed Death-Ligand 1 Expression on Islet <math>\beta</math> Cells to Limit T Cell Function During Autoimmune Diabetes</i></p>	
	5:00 PM – 5:15 PM	<p><b>O-23:</b> <b>Alberto Japp, PhD</b> <b>University of Pennsylvania</b> <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	<b>BREAK</b>		----
6:00 PM – 6:45 PM	<b>RECEPTION (hors d’oeuvres provided)</b>		Great Hall Foyer (Convention Center, 3 <sup>rd</sup> Floor)

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

## Wednesday, February 20, 2019

Time	Function	Location	
7:00 AM – 5:00 PM	<b>REGISTRATION</b>	Great Hall Foyer (Convention Center, 3 <sup>rd</sup> Floor)	
7:00 AM – 8:00 AM	<b>BREAKFAST</b>	Great Hall Foyer (Convention Center, 3 <sup>rd</sup> Floor)	
8:00 AM – 8:45 AM	<b>Keynote Address:</b>  <b>Michael Snyder, PhD</b> <b>Stanford University</b>  <i>“Applying Big Data to Human Health”</i>	Great Hall 1 (Convention Center, 3 <sup>rd</sup> Floor)	
8:45 AM – 10:15 AM	<b>Cutting Edge Seminar II:</b> <b>Autoimmunity / Pathogenesis</b> Co-Chairs: Bart Roep & Alice Long	Great Hall 1 (Convention Center, 3 <sup>rd</sup> Floor)	
	8:45 AM – 9:15 AM		<b>Roberto Mallone, MD, PhD</b> <b>INSERM Cochin Institute</b>  <i>Of Pancreas and Not Blood: A T-Cell Viewpoint</i>
	9:15 AM – 9:45 AM		<b>Jane Buckner, MD</b> <b>Benaroya Research Institute</b>  <i>The Role of IL-6 in T1D, from Genetics to Intervention</i>
	9:45 AM – 10:15 AM		<b>Yuval Dor, PhD</b> <b>The Hebrew University of Jerusalem</b>  <i>Beta cell derived cell-free DNA</i>
10:15 AM – 10:30 AM	<b>BREAK</b>	Great Hall Foyer (Convention Center, 3 <sup>rd</sup> Floor)	
10:30 AM – 11:00 AM	<b>Discussion Session II:</b> <b>Autoimmunity in Type 1 Diabetes</b> Led by: Bart Roep & Alice Long	Great Hall 1 (Convention Center, 3 <sup>rd</sup> Floor)	

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

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

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



## Thursday, February 21, 2019

Time	Function		Location
7:00 AM – 8:00 AM	<b>BREAKFAST</b>		Great Hall Foyer (Convention Center, 3 <sup>rd</sup> Floor)
8:00 AM – 9:30 AM	<b>Cutting Edge Seminar IV: Beta Cells / Stem Cells</b> Co-Chairs: David Harlan & Al Powers		Great Hall 1 (Convention Center, 3 <sup>rd</sup> Floor)
	8:00 AM – 8:30 AM	<b>Les Satin, PhD</b> <b>University of Michigan</b> <i>The Underlying Basis of Pulsatile Insulin Secretion: Mechanisms, Models, and Modes</i>	
	8:30 AM – 9:00 AM	<b>Maïke Sander, MD</b> <b>University of California, San Diego</b> <i>Insights into islet cell gene regulation from single-cell analyses</i>	
	9:00 AM – 9:30 AM	<b>Matthias Hebrok, PhD</b> <b>University of California, San Francisco</b> <i>Using Stem Cells to Probe Human Beta Cell Biology</i>	
9:30 AM – 10:00 AM	<b>Discussion Session IV: Beta Cells / Stem Cells</b> Led by: David Harlan & Al Powers		Great Hall 1 (Convention Center, 3 <sup>rd</sup> Floor)
10:00 AM – 10:15 AM	<b>BREAK</b>		Great Hall Foyer (Convention Center, 3 <sup>rd</sup> Floor)
10:15 AM – 11:30 AM	<b>nPOD Working Group Presentations: nPOD-Virus</b> Co-Chairs: Maria Craig & Sarah Richardson		Great Hall 1 (Convention Center, 3 <sup>rd</sup> Floor)
	10:15 AM – 10:30 AM	<b>O-49:</b> <b>Teresa Rodriguez-Calvo, DVM, PhD</b> <b>Helmholtz Zentrum München</b> <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	<p><b>O-07:</b> <b>Ivan Gerling,</b> <b>University of Tennessee</b> <i>Activation of Toll Like Receptor Pathways in Insulitic Islets of Type 1 Diabetes</i></p>	
	10:45 AM – 11:00 AM	<p><b>O-50:</b> <b>Antonio Toniolo, PhD</b> <b>Ospedale di Circolo</b> <i>High Frequency Detection of Enteroviruses in Spleen and Peripheral Blood Leukocytes of People with Diabetes of Short and Long Duration</i></p>	
	11:00 AM – 11:15 AM	<p><b>LB-19:</b> <b>Alexia Carré, MSc</b> <b>INSERM Cochin Institute</b> <i>Coxsackievirus-infected human beta cells display selected viral sequences on their HLA Class I molecules</i></p>	
	<p><b>Oral Abstracts IV: Pathogenesis</b> Co-Chairs: John Kappler &amp; Malin Flodstrom-Tullberg</p>		
11:30 AM – 12:30 PM	11:30 AM – 11:45 AM	<p><b>O-47:</b> <b>Clive Wasserfall, MSc</b> <b>University of Florida</b> <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>	
	11:45 AM – 12:00 PM	<p><b>LB-28:</b> <b>Matthias Von Herrath, PhD</b> <b>La Jolla Institute for Immunology / Novo Nordisk</b> <i>Detection and characterization of antigen- specific CD8 T cells in the exocrine and endocrine pancreas of non-diabetic and diabetic donors</i></p>	

	12:00 PM – 12:15 PM	<b>O-42:</b> <b>Wei-Jun Qian, PhD</b> <b>Pacific Northwest National Laboratory</b> <i>Nanoscale Deep Proteome Profiling of Pancreatic Islets from Presymptomatic Autoantibody Positive and T1D Subjects</i>	
	12:15 PM – 12:30 PM	<b>O-30:</b> <b>Adam Swensen, PhD</b> <b>Pacific Northwest National Laboratory</b> <i>Evidence of Incomplete Prohormone Processing in Type 1 Diabetes from Mass Spectrometry Based Proteomics</i>	
12:30 PM – 1:30 PM	<b>LUNCH</b>		Great Hall Foyer (Convention Center, 3 <sup>rd</sup> Floor)
1:30 PM – 2:45 PM	<b>nPOD Working Group Presentations: nPOD-Slice</b> Co-Chairs: Stephan Speier & Alejandro Caicedo		Great Hall 1 (Convention Center, 3 <sup>rd</sup> Floor)
	1:30 PM – 1:35 PM	<b>Introduction</b> <b>Stephan Speier, PhD</b> <b>Technische Universitat Dresden</b>	
	1:35 PM – 1:50 PM	<b>O-37:</b> <b>Christian Cohrs</b> <b>Helmholtz Zentrum München</b> <i>Human Pancreas Tissue Slices from nPOD Organ Donors Provide a Comprehensive and Novel Insight into T1D Pathogenesis</i> *(includes data from abstract 038)*	
	1:50PM – 2:05 PM	<b>O-33:</b> <b>Joana Almaca/Sirlene Cechin</b> <b>University of Miami</b> <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>	

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

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

## Friday, February 22, 2019 (Half day)

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

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

