



**Tuesday, February 19, 2019**

Time	Function	Location	
10:00 AM – 6:45 PM	<b>REGISTRATION</b>	Diplomat Foyer (Convention Center, 2 <sup>nd</sup> Floor)	
12:00 PM – 12:15 PM	<b>Opening Remarks: Mark Atkinson, PhD The University of Florida nPOD Executive Director</b>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</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: Marcella Brissova & Patrick MacDonald	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)	
	12:15 PM – 12:45 PM		<b>Peter Arvan, MD, PhD University of Michigan</b> <i>The Unfolding Story About Proinsulin</i>
	12:45 PM – 1:15 PM		<b>Bruce Verchere, PhD University of British Columbia</b> <i>IAPP: Trigger and Biomarker in Diabetes?</i>
	1:15 PM – 1:45 PM		<b>Emily Sims, MD 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: Marcella Brissova & Patrick MacDonald	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)	
2:15 PM – 2:45 PM	<b>BREAK</b>	----	
2:45 PM – 3:45 PM	<b>Oral Abstracts I: Lessons from NOD Mice</b> Co-Chairs: Maggie Morris and Matthias von Herrath		

	2:45 PM – 3:00 PM	<p><b>Mihaela Stefan, PhD</b>  <b>Albert Einstein College 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></p>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	3:00 PM – 3:15 PM	<p><b>Jamie Felton, MD</b>  <b>Indiana University</b>  <i>Metabolic Phenotyping of Islet-Infiltrating Lymphocytes in Type 1 Diabetes</i></p>	
	3:15 PM – 3:30 PM	<p><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></p>	
	3:30 PM – 3:45 PM	<p><b>Karsten Buschard, MD</b>  <b>Bartholin Institute</b>  <i>Sphingolipids in the pathogenesis of Type 1 Diabetes</i></p>	
3:45 PM – 5:00 PM	<p><b>Oral Abstracts II: Immunology</b>  Co-Chairs: Eddie James &amp; Katie Haskins</p>		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	3:45 PM – 4:00 PM	<p><b>Rocky Baker, PhD</b>  <b>University of Colorado</b>  <i>Characterization of T Cells Reactive to Hybrid Insulin Peptides in Type 1 Diabetes Patients</i></p>	
	4:00 PM – 4:15 PM	<p><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>	
	4:15 PM – 4:30 PM	<p><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>	

	4:30 PM – 4:45 PM	<p><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>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	4:45 PM – 5:00 PM	<p><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>	
5:00 PM – 6:00 PM	<b>BREAK</b>		----
6:00 PM – 6:45 PM	<b>RECEPTION (hors d'oeuvres provided)</b>		Diplomat Foyer (Convention Center, 2 <sup>nd</sup> Floor)
6:45 PM – 7:30 PM	<p style="text-align: center;"><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>		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
7:30 PM	<b>DINNER (on your own)</b>		----

## Wednesday, February 20, 2019

Time	Function	Location	
7:00 AM – 4:30 PM	<b>REGISTRATION</b>	Diplomat Foyer (Convention Center, 2 <sup>nd</sup> Floor)	
7:00 AM – 8:00 AM	<b>BREAKFAST</b>	Atlantic Ballroom 2 & 3 (Convention Center, 2 <sup>nd</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>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)	
8:45 AM – 10:15 AM	<b>Cutting Edge Seminar II:</b> <b>Autoimmunity / Pathogenesis</b> Co-Chairs: Bart Roep & Alice Long	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</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>	----	
10:30 AM – 11:00 AM	<b>Discussion Session II:</b> <b>Autoimmunity in Type 1 Diabetes</b> Led by: Bart Roep & Alice Long	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)	

	<b>nPOD Working Group Presentations:</b> <b>nPOD-Autoimmunity</b> Co-Chairs: Todd Brusko & Sally Kent		
11:00 AM – 12:00 PM	11:00 AM – 11:15 AM	<b>Andrea Vecchione, MSc</b> <b>San Raffaele Scientific Institute</b> <i>Follicular Regulatory T Cells are Reduced in Pancreatic Lymph Nodes of Patients with T1D</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	11:15 AM – 11:30 AM	<b>Leeana Peters, MSc</b> <b>University of Florida</b> <i>Unsupervised Clustering of High Parameter Mass Cytometry Data Reveals Immune Heterogeneity in T1D</i>	
	11:30 AM – 11:45 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</i>	
	11:45 AM – 12:00 PM	<i>Discussion and Future Directions</i>	
12:00 PM – 1:00 PM	<b>LUNCH</b>		Atlantic Ballroom 2 & 3 (Convention Center, 2 <sup>nd</sup> Floor)
	<b>Cutting Edge Seminar III:</b> <b>Lessons from Other Diseases</b> Co-Chairs: Jane Buckner & David Leslie		
1:00 PM – 2:30 PM	1:00 PM – 1:30 PM	<b>Antoinette Moran, MD</b> <b>University of Minnesota</b> <i>Cystic Fibrosis Related Diabetes</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	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	<p align="center"><b>Jim Riley, PhD</b>  <b>University of Pennsylvania</b>  <i>Can CAR Expressing T Regulatory Cells  Promote Durable Tolerance of Islet  Transplants?</i></p>	
2:30 PM – 3:00 PM	<p align="center"><b>Discussion Session III:  Lessons from Other Diseases</b>  Led by: Jane Buckner &amp; David Leslie</p>		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
3:00 PM – 3:15 PM	<b>BREAK</b>		----
3:15 PM – 4:30 PM	<p align="center"><b>Oral Abstracts III: <math>\beta</math> Cell Biology</b>  Co-Chairs: Peter Arvan &amp; Raghu Mirmira</p>		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	3:15 PM – 3:30 PM	<p align="center"><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></p>	
	3:30 PM – 3:45 PM	<p align="center"><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></p>	
	3:45 PM – 4:00 PM	<p align="center"><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></p>	

	4:00 PM – 4:15 PM	<p><b>Farooq Sayed, PhD</b>  <b>Indiana University</b>  <i>Comprehensive Analysis of Micro-RNA  Expression Profiles in Human Islets and Islet  Derived Exosomes During Cytokine Mediated  β Cell Stress and Death</i></p>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	4:15 PM – 4:30 PM	<p><b>Bart Roep, PhD</b>  <b>Beckman Research Institute at City of Hope</b>  <i>Expression of Alternatively Spliced Insulin  Gene Products in Non-Beta Cells in Human  Pancreatic Islets</i></p>	
4:30 PM – 7:00 PM	<b>FREE TIME / NETWORKING</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>		Atlantic Ballroom 2 & 3 (Convention Center, 2 <sup>nd</sup> Floor)
8:00 AM – 9:30 AM	<b>Cutting Edge Seminar IV: Beta Cells / Stem Cells</b> Co-Chairs: David Harlan & Al Powers		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</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>Maike 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		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
10:00 AM – 10:30 AM	<b>BREAK</b>		----
10:30 AM – 11:30 AM	<b>nPOD Working Group Presentations: nPOD-Virus</b> Co-Chairs: Maria Craig & Sarah Richardson		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	10:30 AM – 10:45 AM	<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>	



	10:45 AM – 11:00 AM	<p><b>Ivan Gerling, PhD</b>  <b>University of Tennessee</b>  <i>Activation of Toll Like Receptor Pathways in Insulitic Islets of Type 1 Diabetes</i></p>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	11:00 AM – 11:15 AM	<p><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>	
	11:15 AM – 11:30 AM	<p><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>	
11:30 AM – 12:30 PM	<p><b>Oral Abstracts IV: Pathogenesis</b>  Co-Chairs: John Kappler &amp; Malin Flodstrom-Tullberg</p>		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	11:30 AM – 11:45 AM	<p><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>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>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>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	12:15 PM – 12:30 PM	<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>		Atlantic Ballroom 2 & 3 (Convention Center, 2 <sup>nd</sup> Floor)
1:30 PM – 2:45 PM	<b>nPOD Working Group Presentations: nPOD-Slice</b> Co-Chairs: Stephan Speier & Alejandro Caicedo		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	1:30 PM – 1:35 PM	<b>Introduction</b> <b>Stephan Speier, PhD</b> <b>DZD-Paul Langerhans Institute Dresden of the Helmholtz Zentrum Munic</b>	
	1:35 PM – 1:50 PM	<b>Christian Cohrs, PhD</b> <b>DZD-Paul Langerhans Institute Dresden of the Helmholtz Zentrum Munic</b> <i>Human Pancreas Tissue Slices from nPOD Organ Donors Provide a Comprehensive and Novel Insight into T1D Pathogenesis</i>	
	1:50PM – 2:05 PM	<b>Sirlene Cechin, MBA, PhD</b> <b>&amp;</b> <b>Joana Almaca, PhD</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>Edward Phelps, PhD</b> & <b>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>Fahd Qadir, MS, DVM</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: nPOD-IIP/Autoimmunity II</b> Co-Chairs: Clayton Mathews & Alberto Pugliese		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
	3:00 PM – 3:15 PM	<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>Eddie James, PhD</b> <b>Benaroya Research Institue</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	<p><b>Clayton Mathews PhD</b>  <b>&amp;</b>  <b>Alberto Pugliese MD</b>  <b>Co-Chair Discussion</b></p> <p><i>Update on the nPOD-IIP, Discussion and  Future Directions</i></p>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
4:00 PM – 6:00 PM	<b>FREE TIME / NETWORKING</b>		----
6:00 PM – 8:00 PM	<b>Poster Session (hors d'oeuvres provided)</b>		Diplomat Ballroom 4 & 5 (Convention Center, 2 <sup>nd</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. <b>Note:</b> <i>Breakfast will only be served from 7:00 AM – 8:00 AM</i>	Diplomat Ballroom 4 & 5 (Convention Center, 2 <sup>nd</sup> Floor)	
8:45 AM – 10:15 AM	<b>Cutting Edge Seminar V: Emerging Technologies</b> Co-Chairs: Carmella Evans-Molina & Olivier Blondel	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</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, PhD</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 Humans</i>
10:15 AM – 10:45 AM	<b>Discussion Session V: Emerging Technologies</b> Led by: Carmella Evans Molina & Olivier Blondel	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)	
10:45 AM – 11:00 AM	<b>BREAK</b>	----	
11:00AM – 11:15 AM	<b>AI Powers, MD</b> <b>Vanderbilt University</b> <i>Pancreas Atlas Database – Juvenile</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)	

11:15 AM – 11:30 AM	<b>Klaus Kaestner, PhD</b> <b>University of Pennsylvania</b> <i>HPAP Update</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
11:30 AM – 11:45AM	<b>Bobbie-Jo Webb-Robertson, PhD</b> <b>Pacific Northwest National Laboratory</b> <i>Big Data – nPOD Data Group and NIH Resources</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
11:45 AM – 12:00 PM	<b>Alberto Pugliese, MD</b> <b>&amp;</b> <b>Carmella Evans Molina, MD, PhD</b> <b>nPOD Co-Executive Directors</b> <i>Looking Forward &amp; Closing Remarks</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 <sup>nd</sup> Floor)
<b>END OF MEETING</b>		

## VISIT THE OFFICIAL 2019 nPOD ANNUAL MEETING WEBSITE FOR MORE INFORMATION



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