



Tuesday, February 19, 2019		
Time	Function	Location
10:00 AM – 6:45 PM	REGISTRATION	Diplomat Foyer (Convention Center, 2 nd Floor)
12:00 PM – 12:15 PM	Opening Remarks: Mark Atkinson, PhD The University of Florida nPOD Executive Director	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
12:15 PM – 2:15 PM	Cutting Edge Seminar I: Islet Cell Biology and Implications for Type 1 Diabetes Co-Chairs: Marcella Brissova & Patrick MacDonald	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
	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: Marcella Brissova & Patrick MacDonald	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
2:15 PM – 2:30 PM	BREAK	----
2:30 PM – 3:45 PM	Oral Abstracts I: Lessons from NOD Mice Co-Chairs: Maggie Morris and Matthias von Herrath	

	2:30 PM – 2:45 PM	Don Clarke, MS Scripps Research <i>Role of Dietary Insults and Lymphangiogenesis in the Initiation of T1D in NOD Mice and Human</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
	2:45 PM – 3:00 PM	Mihaela Stefan, PhD Albert Einstein College 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	Jamie Felton, MD Indiana University <i>Metabolic Phenotyping of Islet-Infiltrating Lymphocytes in Type 1 Diabetes</i>	
	3:15 PM – 3:30 PM	Todd Zion, PhD Akston Biosciences Corporation <i>An Insulin-Specific B Cell Deletional Immunotherapy, AKS107, for Prevention of Type 1 Diabetes</i>	
	3:30 PM – 3:45 PM	Karsten Buschard, MD Bartholin Institute <i>Sphingolipids in the pathogenesis of Type 1 Diabetes</i>	
	Oral Abstracts II: Immunology Co-Chairs: Eddie James & Katie Haskins		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
3:45 PM – 5:00 PM	3:45 PM – 4:00 PM	Rocky Baker, PhD University of Colorado <i>Characterization of T Cells Reactive to Hybrid Insulin Peptides in Type 1 Diabetes Patients</i>	
	4:00 PM – 4:15 PM	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>	
	4:15 PM – 4:30 PM	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>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
	4:30 PM – 4:45 PM	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>	
	4:45 PM – 5:00 PM	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>	
5:00 PM – 6:00 PM	BREAK		----
6:00 PM – 6:45 PM	RECEPTION (hors d'oeuvres provided)		Diplomat Foyer (Convention Center, 2 nd Floor)
6:45 PM – 7:30 PM	George Eisenbarth Memorial Lecture: Emil Unanue, MD Washington University <i>Beta Cell Crinosomes Maintain Homeostasis but Promote Autoimmunity</i>		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
7:30 PM	DINNER (on your own)		----

Wednesday, February 20, 2019

Time	Function	Location	
7:00 AM – 4:30 PM	REGISTRATION	Diplomat Foyer (Convention Center, 2 nd Floor)	
7:00 AM – 8:00 AM	BREAKFAST	Atlantic Ballroom 2 & 3 (Convention Center, 2 nd Floor)	
8:00 AM – 8:45 AM	Keynote Address: Michael Snyder, PhD Stanford University <i>Applying Big Data to Human Health</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)	
8:45 AM – 10:15 AM	Cutting Edge Seminar II: Autoimmunity / Pathogenesis Co-Chairs: Bart Roep & Alice Long	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd 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>The Role of IL-6 in T1D, from Genetics to Intervention</i>
	9:45 AM – 10:15 AM		Yuval Dor, PhD The Hebrew University of Jerusalem <i>Beta Cell Derived Cell-free DNA</i>
10:15 AM – 10:30 AM	BREAK	----	
10:30 AM – 11:00 AM	Discussion Session II: Autoimmunity in Type 1 Diabetes Led by: Bart Roep & Alice Long	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd 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	Andrea Vecchione, MSc San Raffaele Scientific Institute <i>Follicular Regulatory T Cells are Reduced in Pancreatic Lymph Nodes of Patients with T1D</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
	11:15 AM – 11:30 AM	Leeana Peters, MSc University of Florida <i>Unsupervised Clustering of High Parameter Mass Cytometry Data Reveals Immune Heterogeneity in T1D</i>	
	11:30 AM – 11:45 PM	Sally Kent, PhD University of Massachusetts <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	LUNCH		Atlantic Ballroom 2 & 3 (Convention Center, 2 nd Floor)
	Cutting Edge Seminar III: Lessons from Other Diseases Co-Chairs: Jane Buckner & David Leslie		
1:00 PM – 2:30 PM	1:00 PM – 1:30 PM	Antoinette Moran, MD University of Minnesota <i>Cystic Fibrosis Related Diabetes</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
	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	<p align="center">Jim Riley, PhD University of Pennsylvania <i>Can CAR Expressing T Regulatory Cells Promote Durable Tolerance of Islet Transplants?</i></p>	
2:30 PM – 3:00 PM	<p align="center">Discussion Session III: Lessons from Other Diseases Led by: Jane Buckner & David Leslie</p>		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
3:00 PM – 3:15 PM	BREAK		----
3:15 PM – 4:30 PM	<p align="center">Oral Abstracts III: β Cell Biology Co-Chairs: Peter Arvan & Raghu Mirmira</p>		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
	3:15 PM – 3:30 PM	<p align="center">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></p>	
	3:30 PM – 3:45 PM	<p align="center">Edward Phelps, PhD University of Florida <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">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></p>	

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

	10:45 AM – 11:00 AM	Ivan Gerling, PhD University of Tennessee <i>Activation of Toll Like Receptor Pathways in Insulitic Islets of Type 1 Diabetes</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
	11:00 AM – 11:15 AM	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>	
	11:15 AM – 11:30 AM	Alexia Carré, MSc INSERM Cochin Institute <i>Coxsackievirus-Infected Human Beta Cells Display Selected Viral Sequences on Their HLA Class I Molecules</i>	
11:30 AM – 12:30 PM	Oral Abstracts IV: Pathogenesis Co-Chairs: John Kappler & Malin Flodstrom-Tullberg		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
	11:30 AM – 11:45 AM	Clive Wasserfall, MSc 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>	
	11:45 AM – 12:00 PM	Christine Bender, PhD La Jolla Institute for Immology <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	Wei-Jun Qian, PhD Pacific Northwest National Laboratory <i>Nanoscale Deep Proteome Profiling of Pancreatic Islets from Presymptomatic Autoantibody Positive and T1D Subjects</i>	

	12:15 PM – 12:30 PM	<p>Adam Swensen, PhD Pacific Northwest National Laboratory <i>Evidence of Incomplete Prohormone Processing in Type 1 Diabetes from Mass Spectrometry Based Proteomics</i></p>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
12:30 PM – 1:30 PM	LUNCH		Atlantic Ballroom 2 & 3 (Convention Center, 2 nd Floor)
1:30 PM – 2:45 PM	<p>nPOD Working Group Presentations: nPOD-Slice Co-Chairs: Stephan Speier & Alejandro Caicedo</p>		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
	1:30 PM – 1:35 PM	<p>Introduction Stephan Speier, PhD DZD-Paul Langerhans Institute Dresden of the Helmholtz Zentrum Munic</p>	
	1:35 PM – 1:50 PM	<p>Christian Cohrs, PhD DZD-Paul Langerhans Institute Dresden of the Helmholtz Zentrum Munic <i>Human Pancreas Tissue Slices from nPOD Organ Donors Provide a Comprehensive and Novel Insight into T1D Pathogenesis</i></p>	
	1:50PM – 2:05 PM	<p>Sirlene Cechin, MBA, PhD & Joana Almaca, PhD 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 Secretion in Pancreas Slices and Isolated Islets from the Same Donor</i></p>	

	2:05 PM – 2:20 PM	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 – 2:35 PM	Fahd Qadir, MS, DVM 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		----
3:00 PM – 4:00 PM	nPOD Working Group Presentations: nPOD-IIP/Autoimmunity II Co-Chairs: Clayton Mathews & Alberto Pugliese		Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
	3:00 PM – 3:15 PM	Maki Nakayama, PhD University of Colorado Denver <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	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>	

	3:30 PM – 4:00 PM	<p>Clayton Mathews PhD & Alberto Pugliese MD Co-Chair Discussion <i>Update on the nPOD-IIP, Discussion and Future Directions</i></p>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)
4:00 PM – 6:00 PM	FREE TIME / NETWORKING		----
6:00 PM – 8:00 PM	Poster Session (hors d'oeuvres provided)		Diplomat Ballroom 4 & 5 (Convention Center, 2 nd 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. Note: <i>Breakfast will only be served from 7:00 AM – 8:00 AM</i>	Diplomat Ballroom 4 & 5 (Convention Center, 2 nd Floor)	
8:45 AM – 10:15 AM	Cutting Edge Seminar V: Emerging Technologies Co-Chairs: Carmella Evans-Molina & Olivier Blondel	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd 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 <i>Spatial Genomics: Single Cell in situ Transcription Profiling</i>
	9:45 AM – 10:15 AM		Nikolay Ninov, PhD Technische Universität Dresden <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	Discussion Session V: Emerging Technologies Led by: Carmella Evans Molina & Olivier Blondel	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)	
10:45 AM – 11:00 AM	BREAK	----	
11:00AM – 11:15 AM	AI Powers, MD Vanderbilt University <i>Pancreas Atlas Database – Juvenile</i>	Diplomat Ballroom 1, 2, 3 (Convention Center, 2 nd Floor)	

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

VISIT THE OFFICIAL 2019 nPOD ANNUAL MEETING WEBSITE FOR MORE INFORMATION



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 Website URL:
<https://www.jdrfnpod.org/annual-meeting/>

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