

**nPOD Annual Meeting Agenda**  
**February 23 - 26, 2014 ♦ One Ocean Resort ♦ Atlantic Beach, FL**

**MEETING GOAL**

Previous Annual nPOD Meetings have received much in the way of positive feedback. This year's meeting aims at continuing that tradition, with emphasis on furthering our collaborative research efforts to new levels and engaging you in this process. To learn about how collaborations work, we have one of the country's experts on the topic of "**The Science of Team Science**" giving a lecture on multidisciplinary, international collaborations, their impact in the biomedical field, and how Team Science works. We hope participants will find this format intellectually stimulating and rewarding, and that you will all go home with new information, new ideas, and new friends and collaborators.

**The meeting is structured in four major types of interaction formats:**

***Working group sessions***

These sessions will allow to further develop the evolution of the nPOD research model, based on super-structured working groups focused on key topics in T1D research, including the concept of real time data sharing within the new nPOD DataShare program. Key topics of these sessions include:

- Updates and plans from established and newly formed working groups
- Analysis of how the groups operate, discussion for improvements, needs, challenges and opportunities

***Cutting Edge Seminars***

- Presentations from nPOD investigators, to review and discuss progress and findings from nPOD supported projects, or present new projects
- Presentations from experts on additional scientific topics of interest to nPOD
- Open discussions following each session

***Abstracts***

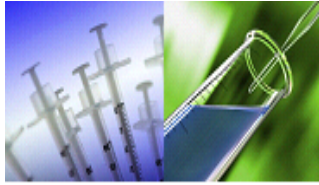
- Abstract presentations from nPOD investigators
- Poster session for informal discussions

***Informal interactions***

- Ample breaks and evening events for informal discussions
- Social gathering and recreational activities for unwinding, get to know people and make friends

***Guiding questions throughout the conference:***

- What are the new questions that can be asked?
- How do the results diverge from conventional wisdom?
- Is there another sample set that could be used to inform these results?
- What other experiments inside or outside of nPOD should be performed to extend results/analysis
- Opportunities to work together to better advance science



| Sunday, February 23, 2014 |                                                                                                                                                                                                                     |                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Time                      | Function                                                                                                                                                                                                            | Location                                                            |
| 1:00 - 7:00 PM            | <b>Registration</b>                                                                                                                                                                                                 | Serenoa                                                             |
| 3:00 - 5:30 PM            | <b>Working Group Meetings:</b><br><br>nPOD-V<br><br>nPOD-Matrix<br><br>nPOD-TCR/Ag<br><br>nPOD-Beta Cell                                                                                                            | Solaria B<br><br>Board Room<br><br>Conference Room<br><br>Solaria A |
| 6:00 - 7:30 PM            | <b>Opening Reception (Hors d'oeuvres)</b><br><br><b>Opening Keynote (6:30 - 7:30 PM)</b><br><br>Speaker Introduction - Alberto Pugliese<br><br><b>Noshir Contractor</b><br><br><i>"The Science of Team Science"</i> | Atlantica Ballroom                                                  |
| 7:30 PM                   | <b>Dinner (On your own)</b>                                                                                                                                                                                         | Local Restaurants in Atlantic Beach                                 |

**Monday, February 24, 2014**

| <b>Time</b>      | <b>Function</b>                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Location</b>       |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 7:30 AM          | <b>Registration</b>                                                                                                                                                                                                                                                                                                                                                                                                                          | Serenoa               |
| 7:30 - 8:30 AM   | <b>BREAKFAST</b>                                                                                                                                                                                                                                                                                                                                                                                                                             | Verandina<br>Patio    |
| 8:30 - 8:45 AM   | <b>Welcome &amp; Introductions</b><br>Mark Atkinson, Alberto Pugliese<br><i>The State of nPOD</i>                                                                                                                                                                                                                                                                                                                                            | Atlantica<br>Ballroom |
| 8:45 - 9:30 AM   | <b>Opening Plenary</b><br>Alvin C. Powers<br><i>"Emerging Ideas on the Roles of Beta Cells and Pancreas in Type 1 Diabetes"</i>                                                                                                                                                                                                                                                                                                              | Atlantica<br>Ballroom |
| 9:30 - 10:00 AM  | <b>BREAK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 | Verandina<br>Patio    |
| 10:00 - 11:00 AM | <b>Scientific Report from the nPOD-V Group</b><br>Alberto Pugliese - <i>Overview</i><br>Sarah Richardson<br><i>"Enteroviral infection in human type 1 diabetes: correlative evidence from multiple sources in nPOD samples"</i><br>Joe Petrosino<br><i>"Lessons from Task 2: Sequencing studies to identify viruses in nPOD samples"</i><br>Rick Lloyd<br><i>"Lessons from Task 5: Strategies for virus amplification from nPOD samples"</i> | Atlantica<br>Ballroom |

**Monday, February 24, 2014 (continued)**

| Time                | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Location           |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 11:00 AM - 12:00 PM | <p align="center"><b>Oral Abstract I - Islet Biology &amp; Pancreas Pathology</b></p> <p align="center"><b>Chairs: Manuela Battaglia &amp; Dale Greiner</b></p> <p align="center"><b>Ania Skowera</b><br/> <i>"β-cell specific CD8 T cell phenotype in type 1 diabetes reflects chronic persistent autoantigen exposure"</i></p> <p align="center"><b>Guido Sebastiani</b><br/> <i>"MicroRNA profiling of impaired CD4+ T regulatory cells residing in the pancreatic draining lymph-nodes of patients with type 1 diabetes"</i></p> <p align="center"><b>Giacomo Lanzoni</b><br/> <i>"Islets from autoantibody positive donors at risk for diabetes are immature and may be undergoing regeneration or neogenesis"</i></p> <p align="center"><b>Roberto Gianani</b><br/> <i>"Paradoxical increase in beta cell mass from islet autoantibody positive organ donors without diabetes"</i></p> | Atlantica Ballroom |
| 12:00 - 1:00 PM     | <b>LUNCH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Verandina Patio    |
| 1:00 – 1:15 PM      | <b>GROUP PHOTO</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Beach              |
| 1:15 - 2:15 PM      | <p align="center"><b>Oral Abstracts II - Islet Biology &amp; Metabolism</b></p> <p align="center"><b>Chairs: Clayton Mathews &amp; Nora Sarvetnick</b></p> <p align="center"><b>Richard Oram</b><br/> <i>"A large, population based study demonstrates that most people with long duration Type 1 Diabetes are insulin microsecretors and produce their own endogenous insulin"</i></p> <p align="center"><b>Marcela Brissova</b><br/> <i>"Distinctive Aspects in Human and Mouse Pancreatic Islet Development"</i></p> <p align="center"><b>Ivan C. Gerling</b><br/> <i>"Differences in Gene Expression Profiles Between Individual Islets from Case 6213"</i></p> <p align="center"><b>Ronny Helman</b><br/> <i>"p16<sup>INK4A</sup> expression in pancreatic beta cells mediates increased insulin secretion"</i></p>                                                                     | Atlantica Ballroom |

**Monday, February 24, 2014 (continued)**

| Time            | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Location           |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 2:15 - 3:45 PM  | <p align="center"><b>Cutting Edge Seminar I: Islet Biology / Pancreas Pathology</b></p> <p align="center"><b>Chairs: Alvin C. Powers &amp; Dick Insel</b></p> <p align="center"><b>Raghu Mirmira</b><br/><i>"Hypusine: A Marker of Cellular Inflammation"</i></p> <p align="center"><b>Andrew Stewart</b><br/><i>"The Transcriptional Identity of Human Beta Cells and Human Insulinomas"</i></p> <p align="center"><b>Eva Korpos</b><br/><i>"Leukocyte penetration of the peri-islet basement membrane in type 1 diabetes"</i></p> | Atlantica Ballroom |
| 3:45 - 4:15 PM  | <b>BREAK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Verandina Patio    |
| 4:15 - 4:45 PM  | <p align="center"><b>Islet Biology / Pancreas Pathology General Discussion</b></p> <p align="center">Discussion leaders: Alvin C. Powers &amp; Dick Insel</p>                                                                                                                                                                                                                                                                                                                                                                       | Atlantica Ballroom |
| 4:45 - 5:15 PM  | <p align="center"><b>The Pancreas in Human Type 1 Diabetes - Lessons from Exeter</b></p> <p align="center">Peter In't Veld, Martha Campbell-Thompson, Noel G. Morgan</p>                                                                                                                                                                                                                                                                                                                                                            | Atlantica Ballroom |
| 5:15 - 6:30 PM  | <b>BREAK (End of Afternoon)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |
|                 | <p align="center">OPEN/OPTIONAL MEETING: <i>Identifying synergies between nPOD, the JDRF Biomarker Working Group, and the T1D Biomarker Community [Atlantica Ballroom]</i></p>                                                                                                                                                                                                                                                                                                                                                      |                    |
| 6:30 - 9:00 PM  | <b>LUAU DINNER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Verandina Patio    |
| 9:00 - 11:00 PM | <p align="center"><b>Cash Bar/Open Mic: <i>Is Type 1 Diabetes an Autoimmune Disease (and anything else on your mind)?</i></b></p> <p align="center">Co-hosts: Bart Roep &amp; Matthias von Herrath</p>                                                                                                                                                                                                                                                                                                                              | Verandina Patio    |

**Tuesday, February 25, 2014**

| <b>Time</b>         | <b>Function</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Location</b>       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 7:00 - 8:00 AM      | <b>BREAKFAST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Verandina<br>Patio    |
| 8:00 - 8:30 AM      | <b>Scientific Report from the TCR/Ag Working Group</b><br>Maki Nakayama & John Kappler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Atlantica<br>Ballroom |
| 8:30 - 9:00 AM      | <b>Scientific Report from the Matrix Group</b><br>Tom Wight, Charmaine Simeonovic, Eva Korpos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Atlantica<br>Ballroom |
| 9:00 - 10:00 AM     | <b>Oral Abstracts III - Etiopathogenesis</b><br><br><b>Chairs: Francesco Dotta &amp; Marco Songini</b><br><br><b>Ilma R. Korponay-Szabo</b><br><i>"Transglutaminase Expression and Celiac Disease Antibody Binding in the Pancreas in Diabetes"</i><br><br><b>Hervé Perron</b><br><i>"Hyperglycemia and hypoinsulinemia induced by HERV-W Env in humanized NOD-SCID: an animal model for HERV-W pathogenicity in Type 1 Diabetes?"</i><br><br><b>Martina Colombo</b><br><i>"RT-PCR Assays for Detecting Enteroviruses in Spleen Samples from the nPOD Collection"</i><br><br><b>Julius O. Nyalwidhe</b><br><i>"Proteomics and Mass Spectroscopy Strategies for Detecting Viral Proteins in Human Tissues"</i> | Atlantica<br>Ballroom |
| 10:00 - 10:30 AM    | <b>BREAK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Verandina<br>Patio    |
| 10:30 AM - 12:00 PM | <b>Cutting Edge Seminar II: Etiopathogenesis</b><br><br><b>Chairs: Ken Coppieters &amp; David Leslie</b><br><br><b>Pat Concannon</b><br><i>"T1D genetics: More insights or just more SNPs?"</i><br><br><b>Lars Krogvold</b><br><i>"The DiViD Study - Pancreatic Biopsies"</i><br><br><b>Ben Giepmans</b><br><i>"EM of virus and/or Islets"</i>                                                                                                                                                                                                                                                                                                                                                                | Atlantica<br>Ballroom |
| 12:00 - 12:30 PM    | <b>Etiopathogenesis General Discussion</b><br><br>Discussion leaders: Ken Coppieters & David Leslie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Atlantica<br>Ballroom |

**Tuesday, February 25, 2014 (continued)**

| <b>Time</b>     | <b>Function</b>                                                                                                                                                                                                                                                    | <b>Location</b>                              |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 12:30 PM        | <b>LUNCH: Pick up box lunch</b>                                                                                                                                                                                                                                    | Verandina<br>Patio                           |
| 12:45 - 1:00 PM | <b>Meet for Group Transportation to Afternoon Activity</b>                                                                                                                                                                                                         | Lobby                                        |
| 1:00 - 5:30 PM  | <p align="center"><b>Afternoon Activity/Free Time</b></p> <ul style="list-style-type: none"> <li>- St. Augustine &amp; Alligator Farm</li> <li>- Golf at Jacksonville Beach Golf Course</li> <li>- The Spa at One Ocean</li> <li>- On your own activity</li> </ul> | Various<br>Locations                         |
| 5:30 - 6:00 PM  | <b>BREAK</b>                                                                                                                                                                                                                                                       |                                              |
| 6:00 - 7:00 PM  | <p align="center"><b>Poster Session</b></p> <p align="center"><i>Wine &amp; Cheese Reception</i></p> <p align="center"><i>Scientific Ambassador &amp; JDRF Ambassador Partnership</i></p>                                                                          | Solaria                                      |
| 7:00 PM         | <b>DINNER (On your own)</b>                                                                                                                                                                                                                                        | Local<br>Restaurants in<br>Atlantic<br>Beach |

**Wednesday, February 26, 2014 (Half day)**

| <b>Time</b>         | <b>Function</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Location</b>       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 7:15 - 8:15 AM      | <b>BREAKFAST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Verandina<br>Patio    |
| 8:15 - 9:30 AM      | <p align="center"><b>Oral Abstracts IV - Immunology &amp; Transplantation</b></p> <p align="center">Chairs: Leonard D. Shultz &amp; George W. Burke III</p> <p align="center">[Each Abstract (15 min) = 10 min talk + 5 min Q&amp;A]</p> <p align="center"><b>Christina L. Graves</b><br/><i>"Gastrointestinal Epithelial Cell Immune Dysregulation in Type 1 Diabetes"</i></p> <p align="center"><b>Teresa Rodriguez-Calvo</b><br/><i>"Infiltration of the exocrine pancreas is a common pathological feature of human type 1 and type 2 diabetes"</i></p> <p align="center"><b>Oskar Skog</b><br/><i>"Expression of MHC Class I in Endocrine and Exocrine Pancreatic Tissue at Onset of Type 1 Diabetes"</i></p> <p align="center"><b>Bart Roep</b><br/><i>"Immunohistochemical differentiation of individual donors after multi-donor islet transplantation"</i></p> <p align="center"><b>Garry Fathman</b><br/><i>"Tissue-specific disease-related gene expression in pre-diabetes"</i></p> | Atlantica<br>Ballroom |
| 9:30 - 10:00 AM     | <b>BREAK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Verandina<br>Patio    |
| 10:00 - 11:30 AM    | <p align="center"><b>Cutting Edge Seminar III: Immunology</b></p> <p align="center">Chairs: Ronald Gill &amp; Matthias von Herrath</p> <p align="center">[3 talks: 25 min each]</p> <p align="center"><b>Jerry Nepom</b><br/><i>"Redefining T1D Biomarkers?"</i></p> <p align="center"><b>John Cambier</b><br/><i>"B cells and Type 1 Diabetes"</i></p> <p align="center"><b>Manuela Battaglia</b><br/><i>"The streetlight effect in T1D research"</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Atlantica<br>Ballroom |
| 11:30 AM - 12:00 PM | <p align="center"><b>Immunology General Discussion</b></p> <p align="center">Discussion Leaders: Ronald Gill &amp; Matthias von Herrath</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Atlantica<br>Ballroom |
| 12:00 - 12:10 PM    | <p align="center"><b>NIH HIRN Program</b></p> <p align="center">Olivier Blondel</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Atlantica<br>Ballroom |



**Wednesday, February 26, 2014 (continued)**

| <b>Time</b>           | <b>Function</b>                                                  | <b>Location</b>       |
|-----------------------|------------------------------------------------------------------|-----------------------|
| 12:10 – 12:20 PM      | <b>JDRF Perspective</b><br>Dick Insel & Julia Greenstein         | Atlantica<br>Ballroom |
| 12:20 - 12:30 PM      | <b>nPOD Closing Thoughts</b><br>Mark Atkinson & Alberto Pugliese | Atlantica<br>Ballroom |
| 12:30 PM              | <b>LUNCH: Pick up box lunch</b>                                  | Verandina<br>Patio    |
| <b>END OF MEETING</b> |                                                                  |                       |