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JDRF nPOD Newsletter



JDRF nPOD Newsletter. February 2014. Issue 19.

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If you are proposing a project for the HIRN initiative and would like a letter of support from the JDRF nPOD program, please contact Dr. Mingder Yang, our nPOD investigator coordinator at mdyang@ufl.edu.

The deadline for requesting letters of support from JDRF nPOD for the first round of HIRN funding will be February 15, 2014.

We wish you all the best,
Mark Atkinson & Alberto Pugliese

nPOD Annual Meeting

February 23-26, 2014 at One Ocean Resort in Atlantic Beach, Florida



The annual meeting is almost here!

We are currently at capacity and can no longer accept registrations.

Continuing in our tradition of collaboration, there will be cutting edge seminars, abstract presentations, and group discussions. We look forward to a few days of great scientific dialogue and networking.

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New Aperio Website

The nPOD Online Pathology Server (Aperio) has moved.

The new URL is <http://ahc-path-apr01.ahc.ufl.edu/>

Please update your bookmark to match this updated website address. Aperio recommends that you also update your ImageScope software to the latest version, provided at no cost on the Aperio website: <http://www.aperio.com/appcenter>

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OPPC has moved to a new space!

nPOD's Organ Processing and Pathology Core (OPPC) recently moved to a new and improved lab space that is down the hall from the administrative core. They have been busy setting up in their new location and the entire nPOD team is enjoying being all together in one place.

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Image Analysis Webinar #2

When: March 5, 2014 at 11:00 AM, Eastern Time

Where: <https://ufdiabetescenter.webex.com/ufdiabetescenter/j.php?>

[ED=281731172&UID=488393057&PW=NYjk5YzRkNwVh&RT=MIMxMQ%3D%3D](https://ufdiabetescenter.webex.com/ufdiabetescenter/j.php?ED=281731172&UID=488393057&PW=NYjk5YzRkNwVh&RT=MIMxMQ%3D%3D)

Dr. Varpu Marjomaki will be hosting an image analysis webinar with Dr. Lassi Paavolainen to demonstrate BioImageXd, an open source image analysis software

- Audio conference information:
 - Call-in toll number (US/Canada): 1-650-479-3208
 - Access code: 730 448 775

- For assistance:

- <https://ufdiabetescenter.webex.com/ufdiabetescenter/mc>

–On the left navigation bar, click “Support”.

- To add this meeting to your calendar program, click this link:
<https://ufdiabetescenter.webex.com/ufdiabetescenter/j.php?ED=281731172&UID=488393057&ICS=MS&LD=1&RD=2&SHA2=AAAAApWmiU-ezcaYPRc1cnMMQwC2OLgXm7bgPZlaJi0MKnEr&ST=1>
- To check for the appropriate software, go to:
<https://ufdiabetescenter.webex.com/ufdiabetescenter/systemdiagnosis.php>.
- For background information regarding this software,
<https://webmeeting.utu.fi/p99743655/?launcher=false&fcsContent=true&pbMode=normal>

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New nPOD Website

In November, we rolled out a new and improved website with easy navigation.

You will notice:

- Announcements and updates, with instant links for more information and ways to contact us.
- Home page access for Investigators and Partners
- More information about special projects, such as nPOD-V
- Direct access to DataShare
- Policies, procedures, and protocols at your fingertips
- A search box to find specific topics

Over the next few months, we'll be adding features such as videos and online forms. Take a minute to explore the [new nPOD website!](#)

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Case Narratives

We are excited to announce a new feature that will become available soon for all nPOD cases: case narratives.

In order to provide you with the most comprehensive clinical overview of nPOD donors, we have developed case narratives that will allow you to gather a better understanding of the clinical status of each donor prior to death.

Look for the first set of narratives to be released next month.

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Publications

Reminder: If you have a publication that relies on nPOD tissues, we want to know about it!

Please fill out the [Abstract & Submission form on the nPOD website](#).

Congratulations to the following nPOD investigators that have published since our September newsletter:

- Bonner-Weir S, In't Veld P, Weir G. (2014) Re-analysis of study of pancreatic effects of incretin therapy: Methodological deficiencies. *Diabetes Obes Metab*. doi: 10.1111/dom.12257. [Epub ahead of print]
- Atkinson MA. (2014). Pancreatic biopsies in type 1 diabetes: revisiting the myth of Pandora's box. *Diabetologia*, DOI 10.1007/s00125-013-3159-7
- Atkinson MA, Eisenbarth GS, Michels AW. (2014). Type 1 diabetes. *Lancet* 383(9911):69-82. 10.1016/S0140-6736(13)60591-7. Epub 2013 Jul 26.
- Cheung SS, Ou D, Metzger DL, Meloche M, Ao Z, Ng SS, Owen D, Warnock GL. (2014) B7-H4 Expression in Normal and Diseased Human Islet β Cells. *Pancreas* 43(1):128-34. doi: 10.1097/MPA.0b013e31829695d2.
- Puri S, Akiyama H, Hebrok M. (2013) VHL-mediated disruption of Sox9 activity compromises β -cell identity and results in diabetes mellitus. *Genes Dev*. 27(23):2563-75. doi: 10.1101/gad.227785.113.
- Kavishwar A, Moore A. (2013) Sphingomyelin patches on pancreatic beta-cells are indicative of insulin secretory capacity. *J Histochem Cytochem*. 61(12):910-9. doi: 10.1369/0022155413502792. Epub 2013 Aug 6.
- Mallone R, Roep BO. (2013) Biomarkers for immune intervention trials in type 1 diabetes. *Clin Immunol*. 149(3):286-96. doi: 10.1016/j.clim.2013.02.009. Epub 2013 Feb 27. Review.
- Yip L, Taylor C, Whiting CC, Fathman CG. (2013) Diminished adenosine A1 receptor expression in pancreatic α -cells may contribute to the pathology of type 1 diabetes. *Diabetes*., 62(12):4208-19. doi: 10.2337/db13-0614.
- Oram RA, Jones AG, Besser RE, Knight BA, Shields BM, Brown RJ, Hattersley AT, McDonald TJ. (2013) The majority of patients with long-duration type 1 diabetes are insulin microsecretors and have functioning beta cells. *Diabetologia*. [Epub ahead of print]
- Pugliese A, Yang M, Kusmarteva I, Heiple T, Vendrame F, Wasserfall C, Rowe P, Moraski JM, Ball S, Jebson L, Schatz DA, Gianani R, Burke GW, Nierras C, Staeva T, Kaddis JS, Campbell-Thompson M, Atkinson MA. (2013) The Juvenile Diabetes Research Foundation Network for Pancreatic Organ Donors with Diabetes (nPOD) Program: goals, operational model and emerging findings. *Pediatr Diabetes*. doi: 10.1111/pedi.12097. [Epub ahead of print]
- Butler AE, Campbell-Thompson M, Gurlo T, Dawson DW, Atkinson M, Butler PC. (2013) Response to comments on: Butler et al. Marked expansion of exocrine and endocrine pancreas with incretin therapy in humans with increased exocrine pancreas dysplasia and the potential for glucagon-producing neuroendocrine tumors. *Diabetes* 2013;62:2595-2604.
- Harja E, Lord J, Skyler JS. (2013) An analysis of characteristics of subjects examined for incretin effects on pancreatic pathology. *Diabetes Technol Ther*. 15(8):609-18. doi: 10.1089/dia.2013.0177. Epub 2013 Aug 8.
- Gardner JM, Metzger TC, McMahon EJ, Au-Yeung BB, Krawisz AK, Lu W, Price JD, Johannes KP, Satpathy AT, Murphy KM, Tarbell KV, Weiss A, Anderson MS. (2013) Extrathymic Aire-Expressing Cells are a Distinct Bone Marrow-Derived Population that Induce Functional Inactivation of CD4+ T Cells *Immunity*. 19;39(3):560-72. doi:

10.1016/j.immuni.2013.08.005. Epub 2013 Aug 29.

- Chen J, Feigenbaum L, Awasthi P, Butcher DO, Anver MR, Golubeva YG, Bamford R, Zhang X, St Claire MB, Thomas CJ, Discepolo V, Jabri B, Waldmann TA. (2013) Insulin-dependent diabetes induced by pancreatic beta cell expression of IL-15 and IL-15Ra. *Proc Natl Acad Sci U S A*. 110(33):13534-9. doi: 10.1073/pnas.1312911110. Epub 2013 Jul 31.
- Nelson EK, Piehler B, Rauch A, Ramsay S, Holman D, Asare S, Asare A, Igra M. (2013). Ancillary study management systems: a review of needs *BMC Med Inform Decis Mak.*, 13(5). doi: 10.1186/1472-6947-13-5.
- Campbell-Thompson ML, Atkinson MA, Butler AE, Chapman NM, Frisk G, Gianani R, Giepmans BN, von Herrath MG, Hyöty H, Kay TW, Korsgren O, Morgan NG, Powers AC, Pugliese A, Richardson SJ, Rowe PA, Tracy S, In't Veld PA. (2013) The diagnosis of insulinitis in human type 1 diabetes. *Diabetologia*. 56(11):2541-3. doi: 10.1007/s00125-013-3043-5. Epub 2013 Sep 5.
- Hodik M, Lukinius A, Korsgren O, Frisk G. (2013) Tropism Analysis of Two Coxsackie B5 Strains Reveals Virus Growth in Human Primary Pancreatic Islets but not in Exocrine Cell Clusters In Vitro. *Open Virol J*. 2013 Apr 5;7:49-56. doi: 10.2174/1874357901307010049. Print 2013.

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[Quarterly Newsletter]

nPOD is a collaborative type 1 diabetes research project funded by JDRF. We support scientific investigators by providing, without cost, rare and difficult to obtain tissues beneficial to their research. nPOD currently supports over 90 type 1 diabetes-related scientific studies at institutions around the world. Our hope is that nPOD will prove a useful resource to the community of researchers dedicated to finding a cure for type 1 diabetes. For more information, please go to www.jdrfnpod.org