nPOD Online Pathology 101

Martha Campbell-Thompson April 24, 2013

Welcome

- Asking questions:
 - Welcome at any step- others likely have the same
 - How- webinar chat function send to all-
 - If I don't read your question, talk
- Please mute your phones to avoid background noise- use mute button or *69

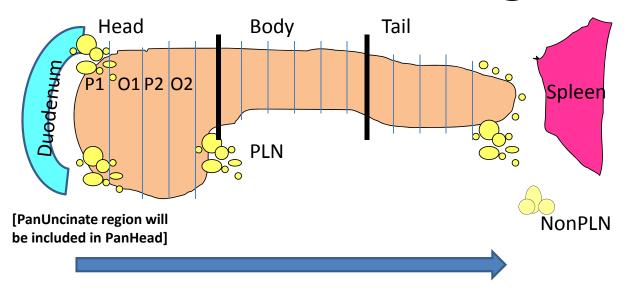
Best Viewing

- Browser: Microsoft Internet Explorer
 - Known issues with Chrome and Firefox
- For access: see <u>JDRF nPOD/For</u>
 <u>Investigators/Online Pathology Information</u>
 - Users limited to those in research
 - Internet security requires individual accounts with no sharing
- Webinar available on the webpage

Digital Pathology Primer

- Background: Case Processing
 - Histology and IHC
 - Pathology Review
- Spectrum: Information Management System
 - Cases- Specimens Slides
 - Advanced searches
 - Export data
 - Take photos
 - Link H&E and IHC images

Case Processing



Pancreas: head, body, and tail

Paraffin blocks- 5-10 (OCT takes precedence over fixed when sample size is small)

OCT blocks- 5-10 all regions or as indicated by size

PLN:

OCT blocks - 3-5- as many as feasible depending on total numbers

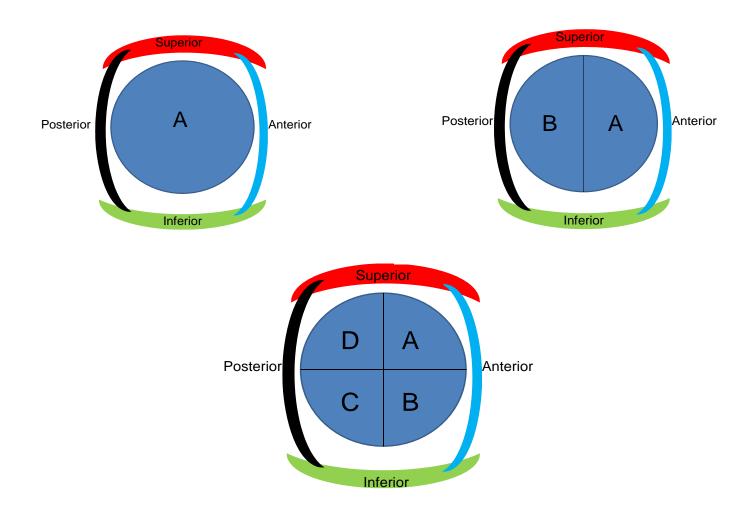
Cells- place several dissected LNs in 15ml tubes containing sterile RPMI, hold at refrigeration until shipped or processed. 1-4 tubes depending on numbers

Frozen vials as for pancreas. Paraffin is optional.

Spleen and NonPLN: as for PLN.

<u>Duodenal mucosa</u>: as for pancreas.

Pancreas Subsections



Standard Histology and IHC

3-4 unstained serial Sections/block, 4um	Blocks 02A, 04A PanHead 02A, 04A PanBody, Tail 01 Spleen 01 Bone Marrow, Lesion(s)
H&E	1. H&E
	2. Ki67+Insulin
IHC	3.CD3+Glucagon
	4. PP (PanHead only)
Slide scanning	All stained slides

nPOD Slide Labels

Original Labels





Case ID Block Number Sample ID Stain

Current Labels





Case ID = 6189
Block Number= 01
Sample ID= Spleen
Stain = H&E

Within 2D code:

Slide Number Aliquot ID (paraffin or OCT) Date

Case Information

CaseID: 6070

Group: T1D "Pending" until lab data returned

AutoAb (Denver): IA-2A+ mIAA+ Denver Autoantibody Core (G. Eisenbarth)

Age (years): 22.6 (7 w/diabetes)

Gender: Female

Ethnicity: Caucasian

C-peptide (ng/ml): <0.05 Northwest Lipid Research (S. Marcovina)

HbA1c:

UNOS BMI: 21.6

ClinicalHistory: "Accepted as" information, other

Histopathology:

Ins+ islets (few); occ. Ki67+ islet cell. CD3+ Insulitis.

Alternating blocks can be devoid of beta cells.

Synopsis of findings starting with islets

A*0201, 0205 B*3801, 5801 C*0701, 1203 DRB1*1001,

HiRes HLA: 1601 DQA1*0101, 0102 DQB1*0501, 0502 DPA1*0103, Oakland Children's (J. Noble)

0201 DPB1*1301, 1401

Transplant HLA: A*02/02, B*38/58, DRB1*10/16, DQB1*05/05

UNOS HLA Class I: A1*02; B1*38; Cw1*07; A2*No second antigen detected;

B2*58; Cw2*07; Bw4+; Bw6-

DR1*10; DQ1*05; DPw1*Not Tested; DR2*16; DQ2*No

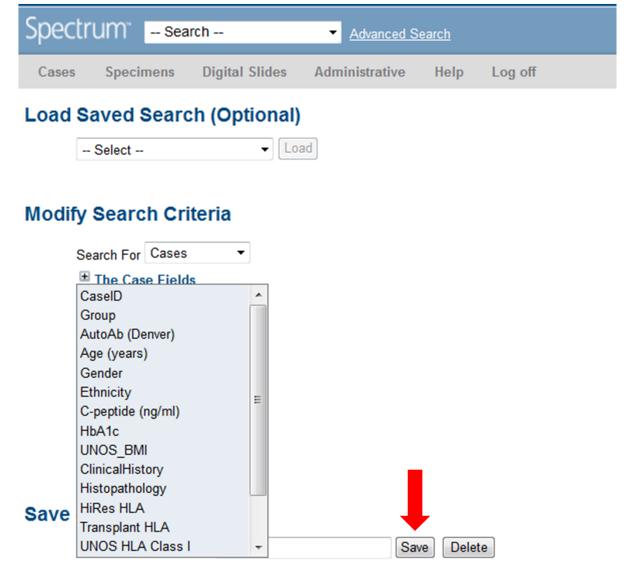
UNOS HLA Class II: second antigen detected; DPw2*Not Tested; DR51+; DR52-

; DR53-;

UNOS- Data uploaded via Data Management Core (J. Kaddis)

From chart

Case Searches



Note - search names containing an asterisk (*) will prompt for modification before execution

Histopathology Searches

Load Saved Search (Optional)



Modify Search Criteria

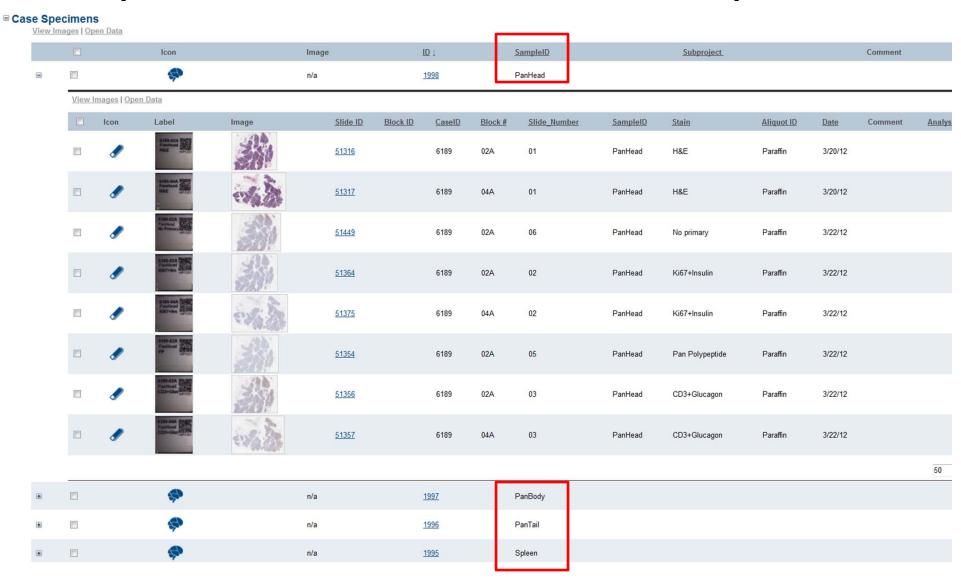


Save Search (Optional)

Save Search Criteria as Save Delete

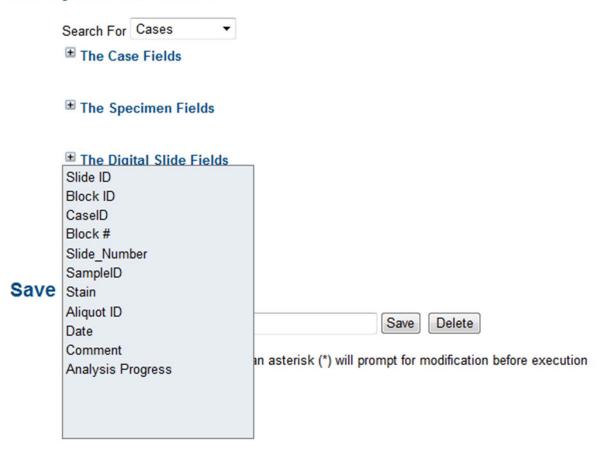
Note - search names containing an asterisk (*) will prompt for modification before execution

Specimens = Tissues = SampleID



Slide Information

Modify Search Criteria

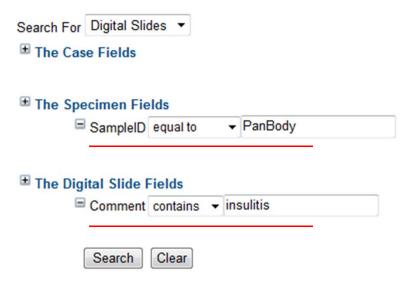


Specimen & Slide Searches

Load Saved Search (Optional)



Modify Search Criteria

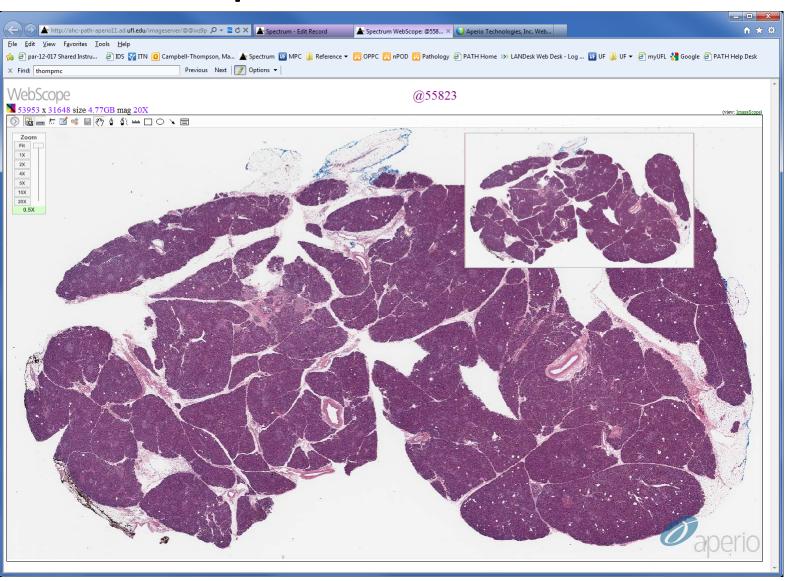


Save Search (Optional)

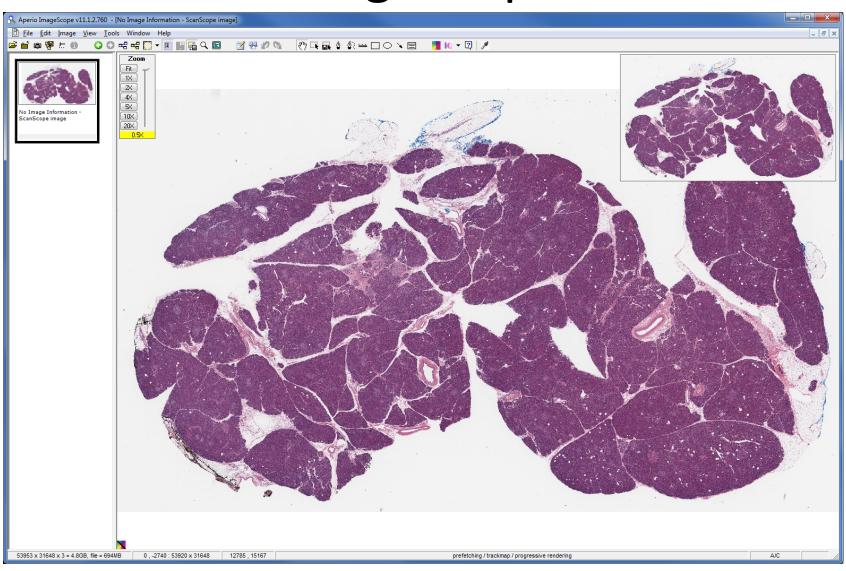
Save Search Criteria as Save Delete

Note - search names containing an asterisk (*) will prompt for modification before execution

WebScope- Macs or Default PC



ImageScope



iPhone, iPad

Aperio® ePathViewer Enables Easy Access to eSlides

The Aperio ePathViewer application allows mobile access to eSlide images from stored pathology data sets and is designed for optimal use with the iPad® mobile digital device, iPad2® mobile digital device, and the new iPad® mobile digital device. A separate app is available for use on the iPhone® 4 mobile digital device and iPhone® 4S mobile digital device.

The application was carefully developed to provide important capabilities to support remote viewing for ePathology slides. Users can select images from active thumbnails of eSlide images, adjust the fixed magnification up to the maximum from the original scan, and display eSlide metadata. In addition, the current view snapshot can be emailed if needed.

For quick reference, the application has built-in default websites, including the Juan Rosai Collection of Surgical Pathology Seminars, as well as Aperio sample images from College of American Pathologists (CAP).



Aperio ePathViewer home page displays a website panel. Moving through select websites and images is as easy as a finger swipe. For ease of use, a single tap toggles the display of an image set, toolbar, image label, thumbnail and color balance. More instructions on use are available below.

Download the ePathViewer Instruction Guide Here.	The Aperio ePathViewer is preloaded with default websites; touch to select
First Name*:	
Last Name*:	
Organization*:	
Job Title*:	
Phone*:	
Email*:	
Postal Code*:	
Which Best Describes Your Area of Interest?* • Healthcare • Life Science	
Call Me*:	⊙ Yes ● No
Where Did You Hear About Aperio?*	
	Submit

- Read the ePathViewer FAQs
- Get the ePathViewer App from the App Store:
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Request Account nPOD Website





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A quarterly e-newsletter for nPOD investigators, partners, and friends of the project. View the nPOD Newsletter archive.

▶ Sign Up Here

Contact

For organ placement and donor suitability, contact:

1-866-731-6585

We are available 24/7.

For other inquiries, please contact: (352) 273-8277 nPOD@pathology.ufl.edu

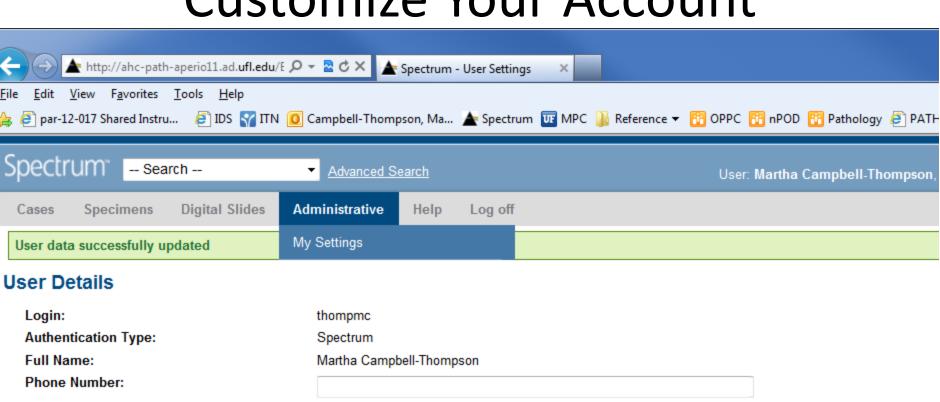
▶ Additional Contact Info

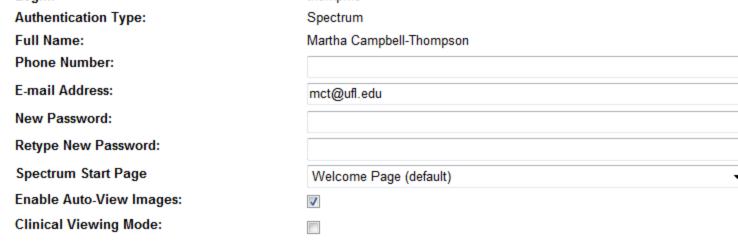
nPOD Online Pathology Investigator Request Form

	ш.
Name:	*
Phone Number:	*
Email Address:	*
Confirm Email Address:	*
Name of Institution:	*
Reason for Request:	*
	Submit Cancel

Mingder Yang return your user information via email.

Customize Your Account





Save

Cancel

Let's Go!

