

nPOD DataShare - Viewing Donor Data and Ordering Samples

1. Introduction

nPOD utilizes two databases to provide information about our donors and allow for online sample ordering. This document gives a basic guide for how to navigate the DataShare site and use it to select cases of interest and request the most appropriate samples for your research.

We recommend using our [Online Pathology site](#) (Aperio eSlide Manager) to view *basic* donor information along with slides that have been screened by nPOD OPPC. Use [DataShare](#) to view *detailed* information about each donor's admission and clinical history, as well as lab results, HLA, demographics, and more. **IMPORTANT: DataShare is constantly updated; please check all data prior to publication!**

Depending on your research goals and the types of samples you need, it may work best to use DataShare first to check the number of available samples. Online Pathology is a great resource for choosing paraffin and OCT blocks of interest; OPPC has scanned H&E slides for nearly all available blocks, as well as slides stained by IHC for insulin, glucagon, somatostatin, CD3, CD45, and Ki-67. Once you have chosen cases and sample blocks, use DataShare to request slides, vials, or cells.

2. DataShare – Viewing Donor Data

2.1. The [DataShare](#) main page allows you to view nPOD Case Histories, Reports and Research Data, and the Specimen Inventory (Figure 1).

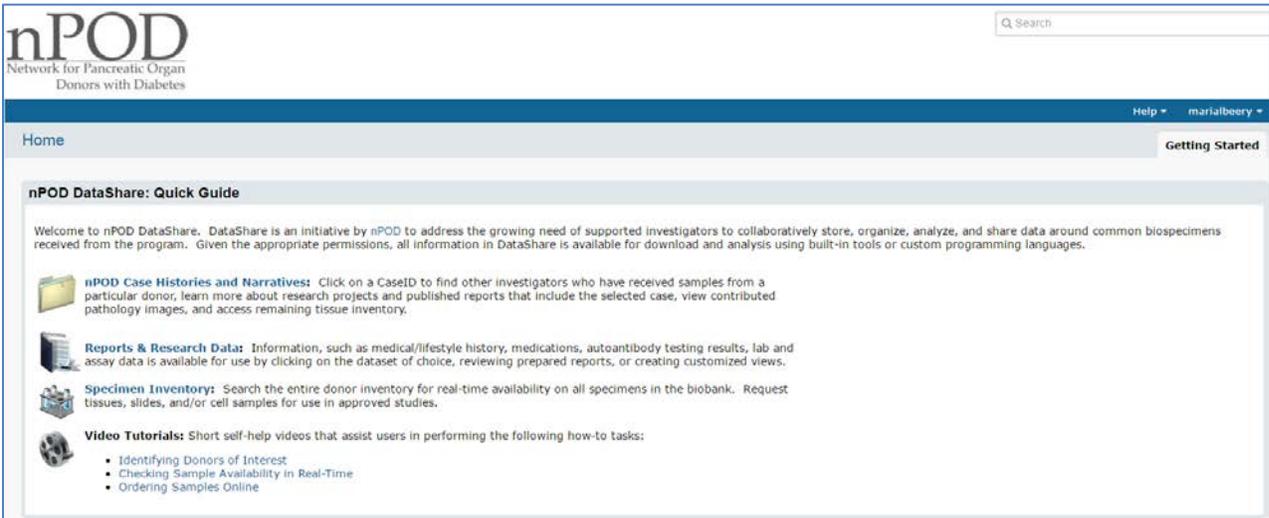


Figure 1. DataShare main page

2.2. Click on the Specimen Inventory link to search for samples. You will also be able to view Reports & Research Data and nPOD Case Histories (Figure 2).

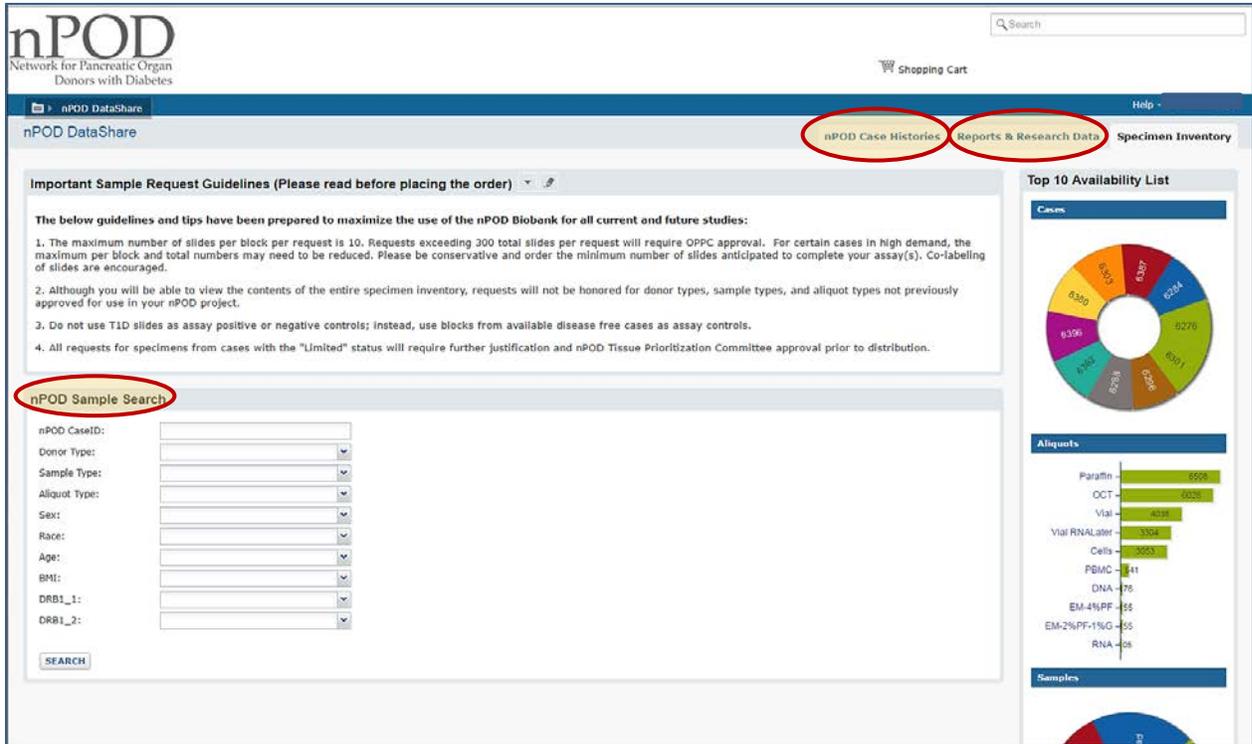


Figure 2. DataShare Specimen Inventory page

2.3. To view detailed information about an nPOD donor, use either the Case Histories tab or the Reports & Research Data tab. The Case Histories tab will display a list of Case IDs that can be refined by donor type (Figure 3). Clicking on a Case ID will display a limited amount of summary data, as well as links to publications, available samples, and active projects that have received samples from the case (Figure 4).

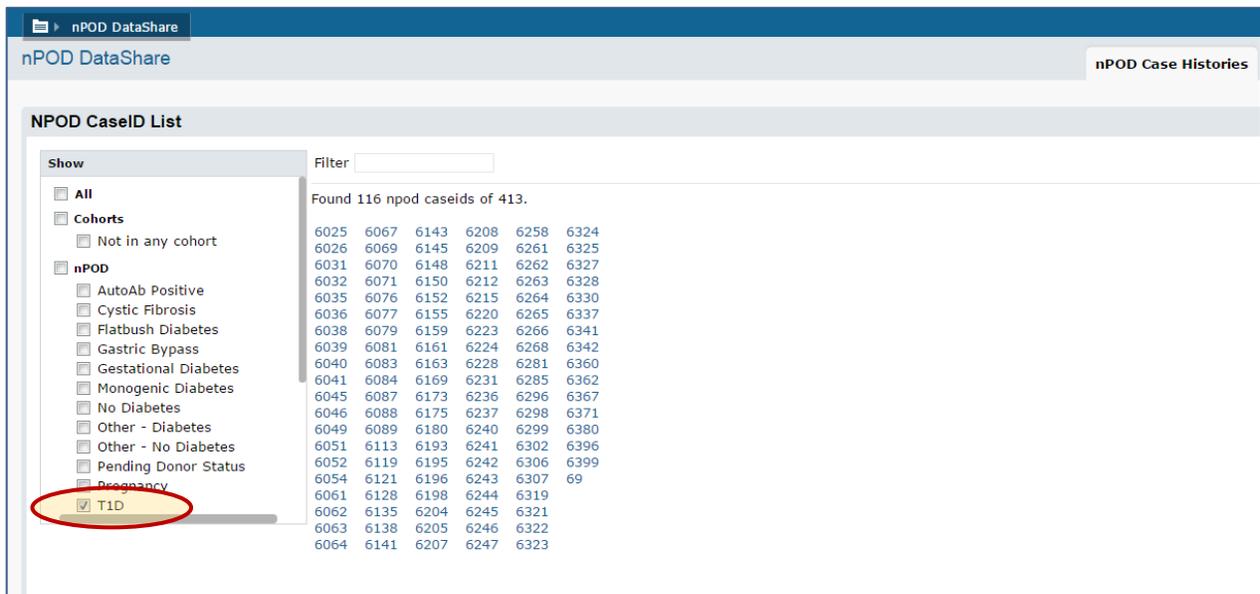


Figure 3. Case Histories tab, filtered for T1D cases.

nPOD DataShare

nPOD CaseID - 6141

SEARCH FOR '6141' | DETAILED DATASETS

INFORMATION | **TISSUE RECOVERED**

DEMOGRAPHICS

Age/Gender: 36.7 year old Male
 Race: Caucasian
 BMI: 26

DIABETES

Donor Type: T1D
 High Resolution HLA: A*01:01/01:01 B*08:01/15:01 C*01:02/03:03 DRB1*03:01/04:01 DQA1*03:01/05:01 DQB1*02:01/03:02 DPA1*01:03/01:03 DPB1*02:01/04:01
 C Peptide Levels: Less than .05
 Duration (Years): 28

TISSUE RECOVERED

Duodenum
 PanBody
 PanHead
 PanTail
 PanUnc
 PLN
 Serum
 Spleen

PATHOLOGY IMAGES

Pathology Images not available.

INVESTIGATOR REPORTS

▼ 2012
 Pancreas organ weight in individuals with disease-associated autoantibodies at risk for type 1 diabetes
 Campbell-Thompson M, Wasserfall C, Montgomery EL, Atkinson MA, Kaddis JS
 JAMA, 2012
 PMID: 23232891
 Learn more...

▼ 2013
 Expression of the enteroviral capsid protein VP1 in the islet cells of patients with type 1 diabetes is associated with induction of protein kinase R and downregulation of Mcl-1
 Richardson SJ, Leete P, Bone AJ, Foulis AK, Morgan NG
 Diabetologia, 2013
 PMID: 23064357

ACTIVE PROJECTS

▼ **Beta Cell Physiology and Dysfunction**

Deoxyhypusine synthase: a novel target for beta cell protection

Investigator: Dr. Raghavendra Mirmira
 Email: rmirmira@iu.edu
 Phone: --
 Category: Beta Cell Physiology and Dysfunction

▼ **Core Lab**

Northwest Lipid Research

Investigator: Dr. Santica Marcovina
 Email: jjc8@u.washington.edu
 Phone: 206-543-3694
 Category: Core Lab

Denver Aab Core

Investigator: Dr Liping Yu
 Email: LIPING.YU@UCDENVER.EDU
 Phone: 303-724-6808
 Category: Core Lab

UF Aab Core

Investigator: Dr. Clive Wasserfall
 Email: clive@ufl.edu
 Phone: 352-273-9298
 Category: Core Lab

High resolution HLA typing

Investigator: Dr. Janelle Noble
 Email: jnoble@chori.org
 Phone: 510-450-7657
 Category: Core Lab

ImmunoChip Assays

Investigator: Dr. Stephen Rich
 Email: ssr4n@virginia.edu
 Phone: 434.243.7356
 Category: Core Lab

Pancreatic immunologic and metabolic parameters/Pathology Core

Investigator: Dr. Irina Kusmartseva
 Email: inkusmartseva@ufl.edu
 Phone: --
 Category: Core Lab

Humoral Immunity in Type 1 Diabetes

Figure 4. CaseID view from Case Histories tab, Case 6141.

2.4. Use the Reports & Research Data tab to view tables of donor data organized by category. Hovering over the dataset name will show a description of the data included in each table (Figure 5).

The screenshot shows the nPOD DataShare interface. The 'Reports & Research Data' tab is active. A search bar at the top left contains 'name, category, etc.'. Below it, a list of datasets is displayed. The 'Diabetes Information' dataset is highlighted, and a tooltip is shown over it. The tooltip text reads: 'Description: Data includes: 1. Donor Type 2. Diabetes Duration (yrs) 3. C-Peptide 4. HbA1c 5. Peak Glucose Hosp Stay (mg/dL) 6. History of Diabetes 7. Insulin Dependent 8. Diabetes Meds Taken 9. Pancreas Disease Notes'. The background table has columns for Name, Details, Data Cut Date, and Modified. Other datasets listed include 'General Donor Information', 'Terminal Hospitalization', 'HLA Typing', and 'Data Reports'.

Figure 5. Reports & Research tab view.

2.5. Each dataset can be sorted and filtered by column. Use the 'Export' option to create an Excel file of either the entire table or only selected rows. DataShare also has the capability to create scatterplots and charts from entire datasets or highlighted rows using the 'Charts' menu (Figure 6).

The screenshot shows the nPOD DataShare interface with the 'Diabetes Information, All Visits' dataset selected. The 'EXPORT' button in the top menu is highlighted. A dropdown menu is open over the 'Diabetes Duration (yrs)' column, showing options for 'Sort Ascending', 'Sort Descending', 'Filter...', and 'Quick Chart'. The background table has columns for nPOD CaseID, Donor Type, Diabetes Duration (yrs), Age At Onset, C-Peptide, HbA1c, Peak Glucose Hosp Stay (mg/dL), History of Diabetes, Insulin Dependent, Diabetes Meds Taken, and Pancreas Disease Notes. The table contains several rows of data, including donor types like 'Virus infected cell line', 'CMA', and 'Transplant'.

Figure 6. Diabetes Information dataset. Filter and sort by columns, create charts, and export data.

3. DataShare – Ordering Samples

- 3.1. **Review case data from DataShare AND Online Pathology prior to ordering samples;** since all nPOD cases come from organ donors and autopsies, there are many confounding factors that could affect your research. nPOD donors exemplify the heterogeneity seen in T1D – there are a limited number of clear-cut, “classic” cases!
- 3.2. **Review Important Sample Request Guidelines** on the specimen inventory page (Figure 2) prior to creating a request. All requests are reviewed by OPPC and may be delayed or altered if guidelines are not followed.
- 3.3. From the Specimen Inventory page, use the Sample Search drop-down menus to narrow down the available inventory to the donors, case IDs, and samples you need (Figure 7).

nPOD Sample Search

nPOD CaseID:

Donor Type: T1D

Sample Type:

Aliquot Type: Paraffin, OCT

Sex: Cell Wash
 Cells
 DNA
 EM-2%PF-1%G
 EM-4%PF
 Fresh-15ml media
 Fresh-50ml media
 Islet
 NBF
 OCT
 OCT-4% PF
 Pack
 Paraffin
 Paraffin-4% PF

SEARCH

Figure 7. Sample Search in DataShare.

- 3.4. Further refine the search using the ‘Filter’ function by each column as needed. For example, click on a column heading to use the ‘Filter’ menu → ‘Choose Filters’ → ‘Equals One Of’ filter type to list multiple CaseIDs, separated by semicolons with no spaces (Figure 8).

EXPORT PRINT PAGE SIZE NPOD CASEID GROUPS REQUEST OPTIONS 1 - 100 of 3,412 Next Last

Hide Previously Requested By <Show All>

View: default

Filter: (DonorType = T1D) AND (DerivativeType IS ONE OF (Paraffin, OCT))

<input type="checkbox"/>	nPOD CaseID	Donor Type	Sample Type	Aliquot Type	Block/Vial Number	OPPC Sample Status	General Comments
<input type="checkbox"/>	6025	T1D	PanOther	Paraffin	04	Available	
<input type="checkbox"/>	6025	T1D	PanOther	Paraffin	08	Available	
<input type="checkbox"/>	6025	T1D	PanOther	Paraffin	09	Available	
<input type="checkbox"/>	6025	T1D	PanOther	Paraffin	11	Available	
<input type="checkbox"/>	6025	T1D	PanOther	Paraffin	13	Available	
<input type="checkbox"/>	6025	T1D	PanOther	Paraffin	14	Available	
<input type="checkbox"/>	6025	T1D	PanOther	Paraffin		Available	
<input type="checkbox"/>	6026					Available	
<input type="checkbox"/>	6026					Available	
<input type="checkbox"/>	6026					Available	
<input type="checkbox"/>	6026					Available	
<input type="checkbox"/>	6031					Available	
<input type="checkbox"/>	6031					Available	
<input type="checkbox"/>	6031					Available	
<input type="checkbox"/>	6031					Available	
<input type="checkbox"/>	6031	T1D	PanOther	Paraffin	01	Available	
<input type="checkbox"/>	6031	T1D	PanOther	Paraffin	02	Available	
<input type="checkbox"/>	6031	T1D	PanOther	Paraffin	03	Available	

Show Rows Where nPOD CaseID...

Choose Filters Choose Values

Filter Type: Equals One Of (e.g. "a;b;c")

6325;6307;6371

and: No Other Filter

OK CANCEL CLEAR FILTER CLEAR ALL FILTERS

Figure 8. Sample Inventory, filter by CaseID, Donor Type, Sample, Aliquot, or Block/Vial number.

3.5. The figure below shows the inventory filtered by the CaselDs 6307, 6325, and 6371, the sample type PanHead, the aliquot type Paraffin, and the Block/Vial number 01 and 01A-D. In this example, filtering would allow the addition of multiple paraffin blocks from the same regions of the pancreas from different T1D donors to a new request using the check boxes (Figure 9). Slides can also be added to an existing request using the same method, as long as the request was not submitted to OPPC. In the event that the request was already submitted, you can either create another request or delete the first one and consolidate your order into a second request. You can also click on the shopping cart icon to request individual samples.

EXPORT PRINT PAGE SIZE NPOD CASEID GROUPS REQUEST OPTIONS

Hide Previously Requested By <Show All> View Existing Requests

View: default Create New Request

Filter: (DonorType = T1D) AND (donortype = T1D) AND (SampleType = PanHead) AND (AliquotType = Paraffin) AND (Block/VialNumber IS ONE OF (01, 01A, 01B, 01C, 01D)) AND (PrimaryType = PanHead) AND (DerivativeType = Paraffin)

		nPOD CaseID	Donor Type	Sample Type	Aliquot Type	Block/Vial Number	OPPC Sample Status
<input type="checkbox"/>		6307	T1D	PanHead	Paraffin	01A	Available
<input type="checkbox"/>		6307	T1D	PanHead	Paraffin	01B	Available
<input type="checkbox"/>		6307	T1D	PanHead	Paraffin	01C	Available
<input type="checkbox"/>		6307	T1D	PanHead	Paraffin	01D	Available
<input checked="" type="checkbox"/>		6325	T1D	PanHead	Paraffin	01	Available
<input checked="" type="checkbox"/>		6371	T1D	PanHead	Paraffin	01	Available

Figure 9. Filtering sample inventory and creating a new request.

3.6. Fill out all required spaces in the new specimen request form (Figure 10). Your previous entries will repopulate the next time you make a new request. You **cannot** change/add information after clicking Save & Continue.

Specimen Overview > Specimen Requests >

New Specimen Request

Please fill out this form to create a new specimen request. You will have the chance to add or remove specimens before the request is submitted.

Project Principal Investigator (Required):
Kusmartseva, Irina

Approved nPOD Project (Optional):
Provide title of project(s) utilizing nPOD samples
Tutorial test

Special Contact Name (Optional):
Provide a name if order being shipped to location other than PI home institution

Shipping Information (Required):
Please enter contact name and delivery shipping address. In some cases, the special contact name and contact name may be the same
Dr. Irina Kusmartseva
1275 Center Drive
Gainesville, FL 32610

Transit Instructions (Optional):
As needed for any special shipping or packaging requirements

Shipping Account Number (Optional):
Please provide the courier name and account number for the vendor you would like to be used
FedEx Account # 11111111

Special Instructions (Optional):

Feedback Form Completed for Previous Shipment? (Optional):
If not, please do so at <http://www.jdrfnpod.org/for-investigators/request-npod-samples/> and then answer YES. If N/A, so state.

SAVE & CONTINUE CANCEL

Selected Specimens:

nPOD CaseID	Donor Type	Sample Type	Aliquot Type	Block/Vial Number	OPPC Sample Status	General Comments
6307	T1D	PanHead	Paraffin	01A	Available	
6325	T1D	PanHead	Paraffin	01	Available	
6371	T1D	PanHead	Paraffin	01	Available	

Figure 10. New Specimen Request form.

3.7. The next window will allow you to request the number of slides per block, up to a maximum of 10 (Figure 11).

Case ID	Sample Type	Aliquot Type	Block	# of Slides
6307	PanHead	Paraffin	01A	5
6325	PanHead	Paraffin	01	5
6371	PanHead	Paraffin	01	5

[SAVE](#)

Figure 11. Extended Specimen Request, number of slides per block.

3.8. The Specimen Request page will contain all of the information entered for the request so far, including shipment information and specimens requested. In order to see how many slides have been requested per block, use the 'Update Extended Request' link. More specimens may be added using the 'Specimen Search' link and may be removed using the check boxes and 'Remove Selected' (Figure 12). Once you have finished adding all slides, vials, or cells, use the 'Submit Request' button to finish.

Specimen Overview > Specimen Requests >
Specimen Request 2733

Unsubmitted Request [Attachments](#)
 This request has not been submitted.
 Request processing will begin after the request has been submitted.

[SUBMIT REQUEST](#) [CANCEL REQUEST](#)

Request Information

Requester marialbeery
Requesting Location Kusmartseva, Irina
Request Date 09-08-2016 12:24
Description Approved nPOD Project: Tutorial test

Special Contact Name: [Not provided]

Shipping Information:
 Dr. Irina Kusmartseva
 1275 Center Drive
 Gainesville, FL 32610

Transit Instructions: [Not provided]

Shipping Account Number:
 FedEx Account # 11111111

Special Instructions: [Not provided]

Feedback Form Completed for Previous Shipment?: [Not provided]

Status Not yet Submitted

[VIEW HISTORY](#) [UPDATE EXTENDED REQUEST](#)

Current Requirements

Actor	Location	Description	Status
nPOD Admin	N/A	Check IRB Approval	Incomplete DETAILS
OPPC Core Lab	N/A	Check to see if feedback form provided for previous shipment	Incomplete DETAILS

Associated Specimens

[PAGE SIZE](#) [EXPORT](#) [SPECIMEN SEARCH](#) [UPLOAD SPECIMEN IDS](#) [REMOVE SELECTED](#)

View: AssocSpecView

	nPOD	CaseID	Donor Type	Sample Type	Block/Vial Number	Aliquot Type	General Comments	OPPC Sample Status
<input type="checkbox"/>	[history]	6307	T1D	PanHead	01A	Paraffin		Available
<input type="checkbox"/>	[history]	6325	T1D	PanHead	01	Paraffin		Available
<input type="checkbox"/>	[history]	6371	T1D	PanHead	01	Paraffin		Available

Figure 12. Specimen Request, not yet submitted.