

# HHEAR Lab Hub Analysis Results Submission Procedure

Version 2.0

Updated May 17th, 2021

## Disclaimer for metabolomics analyses

- The metabolomics analysis results should be submitted to the Metabolomics Workbench at <http://www.metabolomicsworkbench.org/data/DRCDataDeposit.php>
- Please follow their instruction and enter the HHEAR project ID into the metabolomics workbench data upload interface
- All other HHEAR analysis results should be uploaded to the HHEAR Data Submission and Review Portal, following this instruction

## Pre-requisites

- In order to access the HHEAR Data Submission and Review Portal (DSRP) at <https://hheardatacenter.mssm.edu/> as a Lab Hub (LH) member, you must first establish an account by contacting the HHEAR Data Center (DC) ([HHEARsupport@mssm.edu](mailto:HHEARsupport@mssm.edu))
- LH user accounts will be granted if you are either:
  - Assigned to perform an analysis for a HHEAR project, as documented in the HHEAR project Lab Analysis Plan
  - Identified by the HHEAR Coordinating Center as a LH member responsible for submitting HHEAR relevant Proficiency Testing (PT) reports to the DC

# Accessing the HHEAR DSRP

- The HHEAR DSRP URL is: <https://hheardatacenter.mssm.edu>
- Click on the Login button at top of Home page. This button is circled in yellow in the screenshot to the right
- Login with the default password that you received from HHEAR DC, if you are a first-time user. You will be prompted to re-set the password in this scenario
- Login with your previously-established credentials if you are a returning user

**HHEAR** Human Health Exposure Analysis Resource

Studies Harmonized Data Resources **Login**

### HHEAR Data Center

In 2019 the **Human Health Exposure Analysis Resource (HHEAR) Data Center** at the Icahn School of Medicine at Mount Sinai was established by NIEHS as a continuation of the CHEAR Data Center expanding to include health outcomes at all ages. The goal is to provide the research community access to statistical analyses and to make that data publicly available as a means to improve our knowledge of the comprehensive effects of environmental exposures on human health throughout the life course.

The HHEAR Data Center goals are to catalyze new scientific insight from the colocation, integration and advanced statistical and data science analysis of multimodal data sets.

We will provide:

- ✓ A data repository for storing epidemiologic and biomarker data for CHEAR and HHEAR research studies
- ✓ Publicly available deidentified datasets downloadable for external users
- ✓ A publicly accessible HHEAR ontology that provides a common vocabulary with unambiguous definitions of concepts and variables across studies to allow for pooling of studies

**Current Data Center Statistics**

Number of Studies	35	Number of Specimens Analyzed	43,994
Number of Subjects	3,723	Number of Chemicals Targeted	139

### HHEAR Studies by Chemical Group

Metabolomics	100%
Phthalates	75%
Trace Elements	50%
PFAS	25%
Phenols	10%

HHEAR Data Repository & Submission Portal | Search and Browse HHEAR studies | Search and Browse Harmonized Data | Resources

# Navigating to My Projects page

- To upload lab data for a HHEAR project or PT reports click the "My Projects" button. This is circled in yellow in the screenshot below

The screenshot shows the HHEAR website interface. The top navigation bar is blue and contains the HHEAR logo (Human Health Exposure Analysis Resource) on the left. In the center, the 'My Projects' button is highlighted with a yellow circle. To its right are links for 'Studies', 'Harmonized Data', and 'Resources'. On the far right, there is a user profile icon and the text 'Welcome, test test'. Below the navigation bar, the main content area is divided into two columns. The left column features the 'HHEAR Data Center' section with a descriptive paragraph and a list of services. The right column displays 'Current Data Center Statistics' with four colored cards showing key metrics.

Metric	Value
Number of Studies	34
Number of Specimens Analyzed	61,172
Number of Subjects	3,697
Number of Chemicals Targeted	139

# Navigating to Appropriate Page for PT Report Submission

- Go to the “PT” tab on the My Projects page
- A page is set up for each HHEAR Targeted LH for the purposes of uploading PT reports relevant to HHEAR
- Select the PT Project Number link associated with your LH
- In the “View Project” interface, an analysis page for each anticipated PT round will be listed for each HHEAR-relevant PT scheme your LH participates in and will appear beneath “Analysis Title”
- Click the analysis title associated with the PT scheme and round of the report you are intending to submit
- If you need an additional analysis page to be created that is not listed, email the DC at [HHEARsupport@mssm.edu](mailto:HHEARsupport@mssm.edu)

The screenshot shows the HHEAR Human Health Exposure Analysis Resource interface. The top navigation bar includes 'My Projects', 'Studies', 'Harmonized Data', and 'Resources'. The 'My Projects' section has tabs for 'HHEAR', 'CHEAR', 'ECHO', and 'PT', with the 'PT' tab highlighted. Below the tabs is a table of projects:

PT Cohort ID	CHEAR PT Project Number	Status	Concept Title	Date Accepted	# PIDs	# SIDs
HHEAR-PT-TESTLAB	<a href="#">PT Results from TEST LAB</a>	Approved	Data repository for PT reports from the TEST LAB...	01/01/1900	0 of 0	0 of 0

A blue arrow points from the 'PT Results from TEST LAB' link to the 'View Project' page below. The 'View Project' page displays the following information:

**Project ID:** HHEAR-PT-TESTLAB  
**Project Name:** PT Results from TEST LAB  
**Description:** Data repository for PT reports from the TEST LAB  
**Principal Investigator(s):**  
**Contributor(s):** test test;

**Analyses**

Analysis Title	Sample Matrix	Lab Hub Assigned	Number of Samples	File Count
<a href="#">PT TEST Round 2020-1</a>			0	0

# Navigating to Appropriate HHEAR Project and Analysis

- Go to the “HHEAR” tab on the My Projects page
- One or more HHEAR Project(s) could be linked to your account
- You can click on the project titles to review each of them and identify the appropriate one to upload data
- In the View Project interface, one or more Analysis will appear beneath “Analysis Title”
- Click the Analysis Title for which you wish to upload data
- The Analyses are built based on the HHEAR Project Lab Analysis Plan document, if you need any additional modifications feel free to email the DC at [HHEARsupport@mssm.edu](mailto:HHEARsupport@mssm.edu)

HHEAR Human Health Exposure Analysis Resource

My Projects Studies Harmonized Data Resources | Welcome, test test

### My Projects

HHEAR CHEAR ECHO PT

HHEAR Project ID	Project Name	Status	Description	Date Accepted	# PIDs	# SIDs
2020-00000	The role of Endocrine Disruptors in Childhood obesity in a NYC cohort of children.	Approved	Childhood obesity is a leading public health problem in the US. Diet and physical inactivity are the...	01/01/1900	0 of 0	0 of 0

### View Project

**Project ID:** 2020-00000

**Project Name:** The role of Endocrine Disruptors in Childhood obesity in a NYC cohort of children.

**Description:** Childhood obesity is a leading public health problem in the US. Diet and physical inactivity are the main contributors, however, recent findings highlight the possible involvement of environmental estrogens, i.e. chemicals with estrogenic potential, have been reported to perturb adipogenic mechanisms using in vitro model systems. Referred to also as endocrine disrupting chemicals (EDC) may impact obesity because of estrogenic and anti-estrogenic properties. One class of EDC's we will study are phthalates. There is widespread exposure from phthalates; mainly found in plastics, personal care products and foods. This HHEAR project will use the Children's Health cohort of 500 children from NYC, aged 5-11 to examine the effect of phthalates on childhood growth.

**Principal Investigator(s):**

**Contributor(s):** test test;

**Analyses**

Analysis Title	Sample Matrix	Lab Hub Assigned	Number of Samples	File Count
Phthalates	Urine	HT3 - Mount Sinai (Targeted)	0	0
Trace Elements	House Dust	HT1 - Duke	0	0

# Upload Files to Associated Analysis or PT Round

- Click the “Upload Data” button in the “View Analysis” attach files to this analysis
- Select “Lab Results” as Category when you upload analytic data files or PT reports
- Browse to your local file to attach, and provide a short description about the file
- Your analysis results are de-identified data, please check the de-identified flag
- Long-format templates are required for all targeted analyses with potential exception for some biological response analyses
- The HHEAR targeted template can be downloaded from HHEAR DSRP Resources page <https://hheardatacenter.mssm.edu/resources.asp>

View Analysis

Analysis Title:	Phthalates
Associated Project:	The role of Endocrine Disruptors in Childhood obesity in a NYC cohort of children.
Analysis Description:	
Biological Matrix :	Urine
Number of Specimens:	0

**Upload Data**

Upload File < Back

Project ID	2020-00001
Analysis Title	Phthalates
Project Status	Initial Data Reviewed by Stats Core

**Upload an Analysis File**

Select Category*	- Please Select -
Short Description*	- Please Select - Data Dictionary / Codebook Supporting Documents for Analysis <b>Lab Results</b> Hyperlink

Upload File < Back

Project ID	2020-00001
Analysis Title	Phthalates
Project Status	Initial Data Reviewed by Stats Core

**Upload an Analysis File**

Select Category*	Lab Results
Short Description*	<input type="text"/>
De-identified	<input type="checkbox"/>

**Select file to upload**



# Confirm Upload

- Your uploaded file should appear under the Data Uploaded section
- You can archive an outdated file using the archive icon to the right of the file list and repeat the process to upload a new result file

View Analysis

< Back

Project ID: 2020-00001

Analysis Title: Phthalates

Analysis Description:

Matrix: Urine

Number of Specimens: 325

Upload Data

Active

File Name	Lab Results	Date/Time	Download	Hash	Change	Archive
2020_00000_HHEAR_Targeted_Data_UPHTH.xlsx Phthalates in urine data for 2020-00000	Lab Results	8/31/2020 12:52:25 PM By test test		Hash	Y Change	

When uploaded successfully, file should appear in this list

Archive file