

# HHEAR Project # 2020-00605

## Contents:

1. Funding Acknowledgements
2. Citing HHEAR data
3. Data Availability Statement
4. HHEAR Glossary
5. Descriptions of public files
6. Analytic Notes

The publication policy, which you agreed to upon registering to the HHEAR data repository, provides guidelines about publicizing HHEAR data:

## 1 ACKNOWLEDGEMENTS

HHEAR resources are made possible by [NIH funding](#) and must be properly acknowledged in manuscripts. At an appropriate place in the manuscript (per the journal’s requirement), abstract, poster, or presentation, one or more statements should specify financial acknowledgement as follows:

*“Research reported in this publication was supported by the National Institutes of Health under award number [grant #(s)] (see Table below)]. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.”*

We also suggest including the following statements in your manuscript:

*“Data for this analysis were obtained from the publicly available Human Health Exposure Resource (HHEAR) Data Repository, which has been approved under Icahn School of Medicine at Mount Sinai IRB Protocol # 16-00947”.*

**Table 1: Grant Information for HHEAR Collaborating Components**

Institution	Principal Investigator	Title	Grant Number
Icahn School of Medicine at Mount Sinai	Susan L. Teitelbaum	HHEAR Center for Data Science	U2CES026555

Wadsworth Center	Parsons, Patrick J.; Kannan, Kurunthachalam	Wadsworth HHEAR Targeted Analysis Laboratory	U2CES026542
Icahn School of Medicine at Mount Sinai	Arora, Manish	Mount Sinai HHEAR Untargeted Analysis Laboratory	U2CES030859

## 2 CITING HHEAR DATA

Publicly available HHEAR data are those data that have been generated by the HHEAR lab(s) combined with the data submitted by HHEAR project investigators. Citing this data will ensure that the original generators of the data sets will get credit and allow readers to locate and evaluate the provenance of the data.

Research investigators who are using HHEAR data should cite the following in the bibliography:

1. Data utilized in your manuscript: Include DOIs\* (Digital Object Identifier) associated with the data files along with the following elements in the suggested format: PI Name. Project Name. Type of Data. Year of Deposition. Repository Name, Access Date. DOI

a. Types of data may include

- Epidemiological Data
- Targeted Lab Analytic Data
- Untargeted Lab Analytic Data
- Bioresponse Analytic Data

b. For example: Christiani D. Relating metals exposure to birth and early childhood outcomes via the metabolite of cord blood. Targeted Lab Analytic Data. 2016. HHEAR Data Repository, Accessed 4/24/2024. [https://doi.org/10.36043/34\\_94](https://doi.org/10.36043/34_94)

*\*DOI information can be found at: <https://hheardatacenter.mssm.edu/Search/Study>*

2. The original paper(s) associated with each HHEAR project included in your manuscript:

If available, are located under “Related Websites and Publications” for each project at:

<https://hheardatacenter.mssm.edu/Search/Study>.

### 3 DATA AVAILABILITY STATEMENT

*“Lab and epidemiological data are hosted at the Human Health Exposure Analysis Resource (HHEAR) Data Center Repository (<https://heardatacenter.mssm.edu/>) under the following DOIs: [list relevant DOIs].”*

Questions about this acknowledgment citation policy should be directed to: [HHEARSupport@westat.com](mailto:HHEARSupport@westat.com).

### 4 HHEAR GLOSSARY

#### Participant ID Format

The format of the HHEAR Participant ID is as follows:

Participant ID (PID) = HHEAR assigned participant ID with the structure XXXXXXX. It is a 7-digit numeric code that will uniquely identify a HHEAR participant

*[Child Participant ID (CHILD\_PID) = When biological specimens are provided by the mother, PID is used to designate who the sample is from (mother or child), and a child PID is also included to designate which child the data is related to if mothers are providing data for more than one child.]*

#### Sample ID Format

The format of the HHEAR Sample ID is as follows:

Sample ID (SID) = HHEAR assigned sample ID with the structure **H-XXXXX-SP** (example: H-3XA5P-U)

- H = HHEAR (fixed character prefix)
- Core ID is a 5-digit alpha-numeric code **XXXXX** that will uniquely identify a HHEAR biological sample
- SP=specimen type (relevant specimen code below):

<b>BC</b> = Buffy Coat	<b>BR</b> = Breast Milk	<b>BU</b> = Buccal Cell
<b>CB</b> = Cord Blood	<b>CSF</b> = Cerebrospinal Fluid	<b>DNA</b> = DNA
<b>DBS</b> = Dried Blood Spots	<b>H</b> = Hair	<b>ME</b> = Meconium
<b>N</b> = Nails	<b>P</b> = Plasma	<b>PL</b> = Placenta
<b>R</b> = RNA	<b>RBC</b> = Red Blood Cells	<b>S</b> = Serum
<b>SL</b> = Saliva	<b>ST</b> = Stool	<b>SU</b> = Sputum
<b>T</b> = Teeth	<b>TI</b> = Tissue	<b>U</b> = Urine
<b>WB</b> =Whole Blood	<b>WBC</b> = White Blood Cells	

#### Targeted Analyte Codes

<b>Chemical Group Code</b>	<b>Full Chemical Group Name</b>	<b>Code</b>	<b>Full Chemical Name</b>	<b>CAS#</b>
PBFR	Brominated Flame Retardants	BDE100	2,2',4,4',6-Pentabromodiphenyl ether	189084-64-8
PBFR	Brominated Flame Retardants	BDE153	2,2',4,4',5,5'-Hexabromodiphenyl ether	68631-49-2
PBFR	Brominated Flame Retardants	BDE154	2,2',4,4',5,6'-Hexabromodiphenyl ether	207122-15-4
PBFR	Brominated Flame Retardants	BDE183	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	207122-16-5
PBFR	Brominated Flame Retardants	BDE28	2,4,4'-Tribromodiphenyl ether	41318-75-6
PBFR	Brominated Flame Retardants	BDE47	2,2',4,4'-Tetrabromodiphenyl ether	5436-43-1
PBFR	Brominated Flame Retardants	BDE85	2,2',3,4,4'-Pentabromodiphenyl ether	182346-21-0
PBFR	Brominated Flame Retardants	BDE99	2,2',4,4',5-Pentabromodiphenyl ether	60348-60-9
SPFAS	Perfluoroalkyl and Polyfluoroalkyl Substances	PFDA	Perfluorodecanoic acid	335-76-2
SPFAS	Perfluoroalkyl and Polyfluoroalkyl Substances	PFHPA	Perfluoroheptanoic acid	375-85-9
SPFAS	Perfluoroalkyl and Polyfluoroalkyl Substances	PFHPS	Perfluoroheptanesulfonic acid	375-92-8
SPFAS	Perfluoroalkyl and Polyfluoroalkyl Substances	PFHXS	Perfluorohexane sulfonate	355-46-4
SPFAS	Perfluoroalkyl and Polyfluoroalkyl Substances	PFOA	Perfluorooctanoic acid (total)	335-67-1
SOC	Organochlorine Pesticides	BHCH	beta-hexachlorocyclohexane	319-85-7
SOC	Organochlorine Pesticides	HCB	Hexachlorobenzene	118-74-1
SOC	Organochlorine Pesticides	PPDDE	4,4'-DDE	72-55-9
SOC	Organochlorine Pesticides	PPDDT	4,4'-DDT	50-29-3
SOC	Organochlorine Pesticides	TCHL	trans-Chlordane	5103-74-2
SOC	Organochlorine Pesticides	TNON	trans-Nonachlor	39765-80-5
SOC	Organochlorine Pesticides	OCHL	oxychlordane	27304-13-8
SOC	Organochlorine Pesticides	PPDDD	p,p'-DDD	72-54-8
SPCB	Polychlorinated biphenyls	PCB105_PCB127	PCB105_PCB127	32598-14-4_39635-33-1
SPCB	Polychlorinated biphenyls	PCB110	PCB110	38380-03-9
SPCB	Polychlorinated biphenyls	PCB114_PCB122	PCB114_PCB122	74472-37-0_76842-07-4
SPCB	Polychlorinated biphenyls	PCB118_PCB106	PCB118_PCB106	31508-00-6_70424-69-0
SPCB	Polychlorinated biphenyls	PCB128	PCB128	38380-07-3

SPCB	Polychlorinated biphenyls	PCB137	PCB137	35694-06-5
SPCB	Polychlorinated biphenyls	PCB138_PCB158	PCB138_PCB158	35065-28-2_74472-42-7
SPCB	Polychlorinated biphenyls	PCB146_PCB161	PCB146_PCB161	51908-16-8_74472-43-8
SPCB	Polychlorinated biphenyls	PCB153	PCB153	38380-08-4
SPCB	Polychlorinated biphenyls	PCB156	PCB156	69782-90-7
SPCB	Polychlorinated biphenyls	PCB157	PCB157	52663-72-6
SPCB	Polychlorinated biphenyls	PCB167	PCB167	35065-30-6
SPCB	Polychlorinated biphenyls	PCB170	PCB170	52663-74-8
SPCB	Polychlorinated biphenyls	PCB172_PCB192	PCB172_PCB192	52663-70-4
SPCB	Polychlorinated biphenyls	PCB177	PCB177	60145-23-5_52663-68-0
SPCB	Polychlorinated biphenyls	PCB180	PCB180	52663-69-1
SPCB	Polychlorinated biphenyls	PCB182_PCB187	PCB182_PCB187	37680-65-2_37680-66-3
SPCB	Polychlorinated biphenyls	PCB183	PCB183	35694-08-7
SPCB	Polychlorinated biphenyls	PCB18_PCB17	PCB18_PCB17	52663-78-2
SPCB	Polychlorinated biphenyls	PCB194	PCB194	42740-50-1_52663-76-0
SPCB	Polychlorinated biphenyls	PCB195	PCB195	52663-75-9
SPCB	Polychlorinated biphenyls	PCB196_PCB203	PCB196_PCB203	2136-99-4
SPCB	Polychlorinated biphenyls	PCB199	PCB199	40186-72-9
SPCB	Polychlorinated biphenyls	PCB202	PCB202	52663-77-1
SPCB	Polychlorinated biphenyls	PCB206	PCB206	2051-24-3
SPCB	Polychlorinated biphenyls	PCB208	PCB208	38444-85-8
SPCB	Polychlorinated biphenyls	PCB209	PCB209	16606-02-3_7012-37-5
SPCB	Polychlorinated biphenyls	PCB22	PCB22	38444-86-9_38444-84-7
SPCB	Polychlorinated biphenyls	PCB31_PCB28	PCB31_PCB28	38444-90-5
SPCB	Polychlorinated biphenyls	PCB33_PCB20	PCB33_PCB20	52663-59-9_52663-58-8
SPCB	Polychlorinated biphenyls	PCB37	PCB37	41464-39-5
SPCB	Polychlorinated biphenyls	PCB41_PCB64	PCB41_PCB64	2437-79-8_70362-47-9_32598-12-2
SPCB	Polychlorinated biphenyls	PCB44	PCB44	41464-40-8_70362-46-8
SPCB	Polychlorinated biphenyls	PCB47_48_75	PCB47_48_75	35693-99-3_74338-23-1
SPCB	Polychlorinated biphenyls	PCB49_PCB43	PCB49_PCB43	16605-91-7_34883-43-7
SPCB	Polychlorinated biphenyls	PCB52_PCB73	PCB52_PCB73	32598-11-1_70362-48-0
SPCB	Polychlorinated biphenyls	PCB5_PCB8	PCB5_PCB8	74338-23-1_38379-99-6
SPCB	Polychlorinated biphenyls	PCB70_PCB76	PCB70_PCB76	32690-93-0_33284-53-6
SPCB	Polychlorinated biphenyls	PCB73_PCB95	PCB73_PCB95	65510-45-4_68194-12-7

SPCB	Polychlorinated biphenyls	PCB74_PCB61	PCB74_PCB61	68194-07-0_37680-73-2_73575-57-2
SPCB	Polychlorinated biphenyls	PCB85_PCB120	PCB85 + PCB120	38380-01-7
SPCB	Polychlorinated biphenyls	PCB90_101_89	PCB90 + PCB101 + PCB89	68194-07-0_37680-73-2_73575-57-2
SPCB	Polychlorinated biphenyls	PCB99	PCB99	38380-01-7

### Targeted Comment Codes

<i>Code</i>	<i>Definition</i>
0	Valid measurement
37	Value less than LOD
93	Initial concentration higher than the highest standard

## 5 DESCRIPTION OF PUBLIC FILES

<i>File Name</i>	<i>Source</i>	<i>File Description</i>	<i>DOI</i>
00605_TARGETED_DATA.csv	HHEAR	Serum and plasma Brominated Flame Retardants, Perfluoroalkyl and Polyfluoroalkyl Substances, Organochlorine Pesticides, and Polychlorinated biphenyls in lean adults at a baseline visit 1, and obese adults at baseline visit 1 pre-bariatric surgery, and follow-up visit 2 post-bariatric surgery.	10.36043/00605_743
00605_PBFR_METHODS.docx	HHEAR	Laboratory methods for measurement of serum brominated Flame Retardants concentrations.	NA
00605_SOC_METHODS.docx	HHEAR	Laboratory methods for measurement of serum organochlorine Pesticides concentrations.	NA
00605_SPCB_METHODS.docx	HHEAR	Laboratory methods for measurement of serum polychlorinated biphenyls concentrations.	NA
00605_SPFAS_METHODS.docx	HHEAR	Laboratory methods for measurement of plasma perfluoroalkyl and Polyfluoroalkyl Substances concentrations.	NA
00605_EPI_DATA.csv	Parent study	Subject demographic, covariate, and health outcome data.	10.36043/00605_741
00605_EPI_DDCB.xlsx	Parent study	Data dictionary and codebook for subject demographics, covariate, and health outcome data.	NA
00605_META_MAP.csv	HHEAR	Mapping file to link HHEAR specimen IDs in metabolomics datasets to subject IDs, study timepoint (baseline/visit 1/pre-bariatric surgery or visit 2/post-bariatric surgery), and to specimen IDs as displayed in Metabolomics Workbench.	NA
00605_GCMS_PLASMA_META_LINK	HHEAR	Link to Metabolomics Workbench (MW) data, metadata, and methods, for gas chromatography mass spectrometry metabolomics measured in serum in adult lean and obese patients.	10.21228/M80Q6D
00605_LCMS_PLASMA_META_LINK	HHEAR	Link to MW data, metadata, and methods, for liquid chromatography mass spectrometry metabolomics measured in serum in adult lean and obese patients.	10.21228/M80Q6D
00605_GCMS_ADIPOSE_META_LINK	HHEAR	Link to MW data, metadata, and methods, for gas chromatography mass spectrometry metabolomics measured in adipose tissue in adult lean and obese patients.	10.21228/M80Q6D

\*These DOIs do not function as journal article DOIs, which are direct links to an article. Instead, go to <https://www.doi.org/> and paste in the HHEAR dataset DOI to access the data. You must have a HHEAR Data Submission and Review Portal (DSRP) Account to access the data.

## 6 ANALYTIC NOTES

- Please contact the Principal Investigator of the HHEAR study for questions related to datasets indicated with source “Parent study” in the table above and contact [hhearsupport@mssm.edu](mailto:hhearsupport@mssm.edu) for all other questions.
  - The Principal Investigator’s name and contact information at the time of this publication is: Dr. Gokce at [noyan.gokce@bmc.org](mailto:noyan.gokce@bmc.org).
- When datasets contain a column for SID, merge on SID; otherwise merge on PID.
- Lab Quality Control (QC) data for this project is available using the following downloader. (<https://hheardatacenter.mssm.edu/Resource/Get/5>)
  - Lab QC data can be linked to Lab Data via Batch ID
- Visit our Resources page to download and view helpful tools. (<https://hheardatacenter.mssm.edu/resources.asp>)
- The HHEAR dataset DOIs do not function as journal article DOIs, which are direct links to an article. Instead, go to <https://www.doi.org/> and paste in the HHEAR dataset DOI to access the data. You must have a HHEAR Data Submission and Review Portal (DSRP) Account to access the data.
  - Request an account at <https://hheardatacenter.mssm.edu/>.