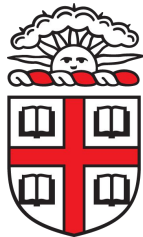


Brown Superfund Research Program Digital Archive

Integrating the Library and Institutional Repository into the Data Core to Support Data Management, Sharing, and Reuse

Andrew Creamer, Joseph Rhoads, Dr. Robert H. Hurt

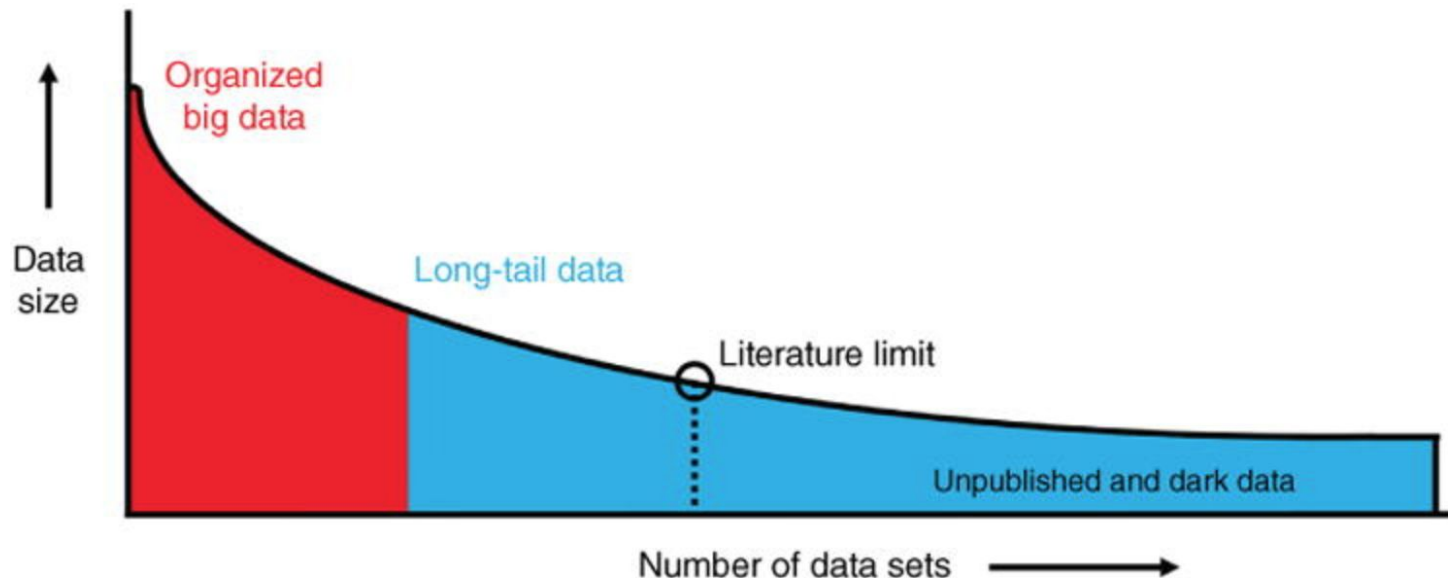
<https://doi.org/10.26300/a4w7-8860>



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Brown University Superfund Research Program is funded by the National Institute of Environmental Health Sciences (NIEHS) Superfund Program of the National Institutes of Health under award [P42ES013660](#)

“Big data from small data: data-sharing in the 'long tail'”



Ferguson AR, Nielson JL, Cragin MH, Bandrowski AE, Martone ME. Big data from small data: data-sharing in the 'long tail' of neuroscience. *Nat Neurosci.* 2014;17(11):1442–1447. doi:10.1038/nn.3838

NIEHS 2018-2023 Strategic Plan

“Development of innovative data science and data-driven approaches, including data sharing platforms, integration, and analytics, is integral to EHS specifically, and health initiatives generally. The broad use of big data frameworks and **FAIR (findable, accessible, interoperable, and reusable) principles** facilitate this development. Continued emphasis on partnerships within and outside NIH will help EHS capitalize on new discoveries and approaches.”



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Clifford Lynch, Executive Director, Coalition for Networked Information (CNI)

From ARL: A Bimonthly Report, no. 226 (February 2003)
Institutional Repositories: Essential Infrastructure for Scholarship in the Digital Age
<http://old.arl.org/resources/pubs/br/br226/br226ir~print.shtml>



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This archive is for the long-term preservation and public dissemination of data and digital research products created and collected by the Brown University Superfund Research Program funded by The National Institute of Environmental Health Sciences Superfund Program of the National Institutes of Health under award [P42ES013660](#). Brown's Superfund Program, "Toxicant Exposures in Rhode Island: Past, Present, and Future," is focused on complex environmental contaminant issues in Rhode Island.

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Title**Creator(s)**

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Title: The spreadsheet implementation of CVI2D tc

Creator: Yao, Yijun

Creation date: 2019-02-08

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Abstract: We attach the spreadsheet implementation of CVI2D, a two-dimensional analytical model of chlorinated vapor intrusion.

Keywords: Medical policy
Obsessive-compulsive disorder
Radiosurgery
Critical care medicine
Immune response
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Hold down "Control", or "Command" on a Mac, to select more than one.

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Longitudinal Manufacturing Database for Rhode Island Establishments, 1953 - 2016

Overview

[Full Metadata ↗](#)

Title

Longitudinal Manufacturing Database for Rhode Island Establishments, 1953 - 2016

Contributors

Marlow, Thomas (Creator)

Frickel, Scott (Creator)

Doi

[10.26300/wfpn-k614](#)

Date Created

2018

Abstract

This file contains the location of manufacturing facilities in Rhode Island between the years 1953 and 2012. This data was collected from digitized manufacturing directories using the open source software Georeg. For details of this data collection process see the Berenbaum et al. (bdr:841108 and bdr:841109). Berenbaum, D., D. Deighan, T. Marlow, A. Lee, S. Frickel, and M. Howison. "Mining Spatio-Temporal Data on Industrialization from Historical Registries." Journal of Environmental Informatics. DOI:10.3808/jei.201700381

Content

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Longitudinal Manufacturing Database for Rhode Island Establishments, 1953 - 2016

Links

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README

TITLE: Longitudinal Manufacturing Database for Rhode Island Establishments, 1953 - 2016

DESCRIPTION:

This file contains the location of manufacturing facilities in Rhode Island between the years 1953 and 2012

Berenbaum, D., D. Deighan, T. Marlow, A. Lee, S. Frickel, and M. Howison. In Press. "Mining Spatio-Temporal

FILENAME: "RI_mfgs-full_data.csv"

Significant cleaning of the data occurred with the software R and Python after data collection. Most signif

FIELDS:

"id" - Integer; Unique identifier for establishments. IDs were generated for every row in the data.

"combined_id" - Integer; Identifier for unique combinations of company name and street name. IDs were creat

"street_id" - Integer; Identifier for unique street names. IDs were created using the "dedupe" library in F

"coname_id" - Integer; Identifier for unique company names. IDs were created using the "dedupe" library in

"year" - Integer; Year data on a facility was collected.

"coname" - Character; String containing the name of the company.

"street" - Character; String containing the collected street address. This is NOT necessarily the exact add

"city" - Character; String containing the city location of the manufacturing facility.

"SIC" - Integer; Two digit standard industrial classification (SIC) code. The field "sic_name" translates t

DOI: 10.3808/jei.201700381

Keywords

land use

historical industrial and

manufacturing sites

toxic exposures

Notes

This research was supported by the National Institute of Environmental Health Sciences (NIEHS) Superfund Research Program of the National Institutes of Health under award number P42ES013660.

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Contents

- [README.txt](#)
- [RI_mfgrs-full_data.csv](#)

Citation

Marlow, Thomas, and Frickel, Scott, "Longitudinal Manufacturing Database for Rhode Island Establishments, 1953 - 2016" (2018). *Brown Superfund Data Products, Superfund Project: Socio-environmental Cities, Brown University Open Data Collection*. Brown Digital Repository. Brown University Library.

<https://doi.org/10.26300/wfpn-k614>

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This collection contains data sets, code, and documentation files associated with the Brown University Superfund Research Program's investigators and research projects.

FAIR Principles



Wilkinson, M. D. *et al.* The FAIR Guiding Principles for scientific data management and stewardship. *Sci. Data* 3 doi: 10.1038/sdata.2016.18 (2016).

The influence of aging, environmental exposures and local sequence features on the variation of DNA methylation in blood	Gene Expression	Gene Expression Omnibus (GEO)
The influence of aging, environmental exposures and local sequence features on the variation of DNA methylation in blood	Gene Expression	Gene Expression Omnibus (GEO)
The spreadsheet implementation of CVI2D toolkit, a two-dimensional analytical model of chlorinated vapor intrusion.	Source code	Brown Digital Repository
The spreadsheet implementation of PVI2D toolkit, a two-dimensional analytical model of petroleum vapor intrusion.	Source code	Brown Digital Repository
Thermomicrobium roseum strain ATCC 27502 16S ribosomal RNA gene, complete sequence	Nucleotide Sequence	GenBank
Thiobacillus sp. S1 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit type II (cbbM).gene., partial cds	Nucleotide Sequence	GenBank
Time Course Gene Expression Microarray Analysis of a Mouse B-cell Line (CH12.LX) Activated with Lipopolysaccharide and Treated with 2,3,7,8-Tetrachlorodibenzo-p-dioxin	Gene Expression	Gene Expression Omnibus (GEO)
Toxicokinetics and toxicodynamics of tetrachloroethylene in males of 45 Collaborative Cross strains of mice	Genotype/Phenotype	Mouse Phenome Database (MPD)



[Aquat Toxicol](#). Author manuscript; available in PMC 2018 May 1.

Published in final edited form as:

[Aquat Toxicol](#). 2017 May; 186: 134–144.

Published online 2017 Feb 21. doi: [10.1016/j.aquatox.2017.02.018](#)

PMCID: PMC5436724

NIHMSID: NIHMS858386

PMID: [28282620](#)

A 3D fish liver model for aquatic toxicology: Morphological changes and Cyp1a induction in PLHC-1 microtissues after repeated benzo(a)pyrene exposures

[April L. Rodd](#),^{*} [Norma J. Messier](#), [Charles A. Vaslet](#), and [Agnes B. Kane](#)

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Associated Data

Supplementary Materials

1.

[NIHMS858386-supplement-1.docx](#) (29M)

GUID: 49E3A5C8-C111-4DCD-B5EC-B632457A7BD5

2.

[NIHMS858386-supplement-2.mov](#) (7.0M)

GUID: DB398DEE-EBF4-45F3-93FA-C6667C6958C9

Abstract

Go to: 

To identify the potential environmental impacts of aquatic pollutants, rapid and sensitive screening tools are needed to assess adaptive and toxic responses. This study characterizes a novel fish liver microtissue model, produced with the cell line PLHC-1, as an *in vitro* aquatic toxicity testing platform. These 3D micro-tissues remain viable and stable throughout the 8-day testing period and relative to 2D monolayers, show increased basal expression of the xenobiotic metabolizing enzyme cytochrome P450 1A (Cyp1a). To evaluate pulsed, low-dose exposures at environmentally relevant concentrations, microtissue responsiveness to the model toxicant benzo(a)pyrene was assessed after single and repeated exposures for determination of both immediate and persistent effects. Significant induction of Cyp1a gene and protein



Environmental Health Perspectives

[Environ Health Perspect](#). 2018 Jun; 126(6): 065001.

Published online 2018 Jun 15. doi: [10.1289/EHP2727](#)

Commentary

PMCID: PMC6108580

PMID: [29916808](#)

Evaluation and Management Strategies for Per- and Polyfluoroalkyl Substances (PFASs) in Drinking Water Aquifers: Perspectives from Impacted U.S. Northeast Communities

[Jennifer L. Guelfo](#),^{1†} [Thomas Marlow](#),² [David M. Klein](#),³ [David A. Savitz](#),⁴ [Scott Frickel](#),² [Michelle Crimi](#),⁵ and [Eric M. Suuberg](#)¹

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Supplementary Materials

(189 KB) PDF.

[EHP2727.s001.acco.pdf](#) (185K)

GUID: 53418E5B-C569-4359-B63E-A059E2EE2366

Abstract

Go to: 

Background: Multiple Northeast U.S. communities have discovered per- and polyfluoroalkyl substances (PFASs) in drinking water aquifers in excess of health-based regulatory levels or advisories. Regional stakeholders (consultants, regulators, and others) need technical background and tools to mitigate risks associated with exposure to PFAS-affected groundwater.

Objectives: The aim was to identify challenges faced by stakeholders to extend best practices to other regions experiencing PFAS releases and to establish a framework for research strategies and best management practices.

Future development

- ❑ Meta-tags for *Google Scholar* and *Google Dataset Search* (beta)
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Thank You

Marjorie Bilderback, SRP Communications Coordinator

Dr. Amy Carroll, Brown University

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