**NIH** National Institute of Environmental Health Sciences
*Your Environment. Your Health.*

# Environmental Health Language Collaborative 2023 Workshop

### Sharing Your Environmental Health Sciences (EHS) Data: Metadata, Standards, and Tools

The Environmental Health Language Collaborative (EHLC) is hosting this 3-day virtual workshop to raise awareness of and encourage use of metadata, standards, and tools that researchers can use to comply with the NIH Data Management and Sharing Policies and promote effective management, sharing, and reuse of environmental health sciences data.

**By the end of the three workshop events, attendees will be able to:**

- articulate the parts of the DMS Plan and its importance
- appreciate how the DMS Plan can aid in their research
- understand the basics of standards in the context of data management and sharing, including the value of using community-based standards
- know of resources to aid in development and implementation of DMS Plans

We look forward to seeing you at the event! Please direct questions or comments to Stephanie Holmgren, Chair, Program Planning Committee (holmgre1@niehs.nih.gov) and the EHLC ICF Workshop Support Team (EHLC@icf.com).

## Workshop Agenda

### EHLC 2023 Workshop Day 1 | January 13, 2023, 12:30-4:30pm ET

*The objective of day 1 is to set the stage for understanding the purpose and elements of the data management and sharing plan.*

**Welcome and Opening Remarks**

**12:30-12:35 |** **Welcome and Introduction** *Rick Woychik, NIEHS*

**12:35-12:45 |** **Introduction to EHLC** *Charles Schmitt, NIEHS*

**Session 1: NIH Data Management and Sharing: Your Plan to Comply with Policy**

*Moderator: Chris Duncan, NIEHS*

**12:45-12:55 |** **Introductory Remarks** *Chris Duncan, NIEHS*

**12:55-1:15 |** **Overview of the NIH Policy and Purpose** *Taunton Payne, NIH and Cindy Danielson, NIH*

**1:15-1:35 |** **Best Practices for Data Management and Sharing** *Nicole Contaxis, NYU*

**1:35-1:45 |** **Questions**

**Session 2: Resources to Get You Started**

*Moderator: Stephanie Holmgren, NIEHS*

**1:45-2:00 |** **FairSharing** *Allyson Lister, Oxford e-Research Centre*

**2:00-2:15 |** **Common Data Elements (CDE) Portal** *Robin Taylor, NIH*

**2:15-2:30 |** **DMPTool** *Maria Praetzellis, California Digital Library*

**2:30-2:45 |** **Questions**

*[Break 2:45pm-3:00pm]*

**Session 3: Value of Applying Ontologies/Metadata for Data Sharing and Reuse**

*Moderator: Stephanie Holmgren, NIEHS*

**3:00-3:15 |** **BioDataCatalyst** *Becky Boyles, RTI International*

**3:15-3:30 |** **ZFIN Phenotype Ontology** *Anne Thessen, University of Colorado at Anschutz*

**3:30-3:45 |** **Monarch Initiative** *Kevin Schaper, University of Colorado at Anschutz*

**3:45-4:00 |** **KnowWhereGraph** *Krzysztof Janowicz, University of California at Santa Barbara*

**4:00-4:15 |** **Questions**

**Closing and Adjourn**

## EHLC 2023 Workshop Day 2 | January 19, 2023, 12:00-5:00pm ET

*The objective of day 2 is to highlight specific resources and tools that support compliance with elements of the data management and sharing plan.*

**Welcome and Opening Remarks**

**12:00-12:15 |** **Welcome and Introduction** *Charles Schmitt, NIEHS*

## Session 1: Resource Sharing Session – DMS Plan Element 1c: Metadata

*Moderator: Charles Schmitt, NIEHS*

**12:15-12:40 |** **CEDAR Workbench** *Mark Musen, Stanford University*

**12:40-1:05 |** **ISA Framework** *Phillipe Rocca-Serra, Oxford e-Research Centre*

**1:05-1:15 |** **Questions**

*[Break 1:15pm-1:30pm]*

## Session 2: Resource Sharing Session – DMS Plan Element 3: Standards

*Moderator: Anna Maria Masci, NIEHS*

**1:30-2:20 |** **Ontology Lookup Services - OBO Foundry - Specific Ontologies**

*James Overton, Knocean Inc*

**2:20-2:30 |** **Questions**

*[Break 2:30-2:45pm]*

## Session 3: Getting Hands-On with Ontologies

*Moderator: Anna Maria Masci, NIEHS*

**2:45-3:35 |** **Learn how to** **find a term, what to do if too many terms, decide which one to use, and What to do if no term exists**

*Nicole Vasilevsky, Oregon Health Sciences University*

**3:35-3:45 |** **Questions**

## Session 4: But standards don't exist for my domain!

*Moderator: Anna Maria Masci, NIEHS*

**3:45-4:35 |** **Learn best practices/guidelines for what to do when standards don't exist Discuss gaps in the data standards landscape for specific subdomains of EHS**

*Sierra Moxon, Lawrence Berkeley National Laboratory*

**4:35-4:45 |** **Questions**

## Closing and Adjourn

## EHLC 2023 Workshop Day 3 | February 1, 2023, 12:00-5:00pm ET

*The objective of day 3 is to continue to raise awareness of domain-specific resources as well as offer the opportunity to have more open discussions on topics of interest to attendees.*

**Opening Remarks**

    **12:00-12:15 |** **Welcome and Introduction** *Charles Schmitt, NIEHS*

**Session 1: Spotlight on Domain-Specific Resources**

*Moderator: Charles Schmitt, NIEHS*

    **12:15-12:35 |** **PhenX** *Carol Hamilton, RTI International*

    **12:35-12:55 |** **Chemical Identifiers** *Antony Williams, EPA*

    **12:55-1:15 |** **MIATE** *Rance Nault, Michigan State University*

    **1:15-1:35 |** **Molgenis** *Morris Swertz, University of Gronigen*

    **1:35-1:45 |** **Questions**

*[Break 1:45pm-2:00pm]*

**Session 2: EHS Ontology Discussion**

*Moderator: Stephanie Holmgren, NIEHS*

    **2:00-2:45 |** **Work in Progress: EHLC Data Harmonization Use Case** *Jeanette Stingone, Columbia University*

    **2:45-3:00 |** **Questions**

*[Break 3:00pm-3:15pm]*

**Session 3: Unconference Session**

*Moderator: Stephanie Holmgren, NIEHS*

    **3:15-3:30 |** **Introduction to Unconference and Mural**

    **3:30-4:30 |** **Breakout Discussions**

    **4:30-4:45 |** **Report Outs**

**Closing and Adjourn**