# Mondo Disease Ontology: harmonizing disease concepts around the world

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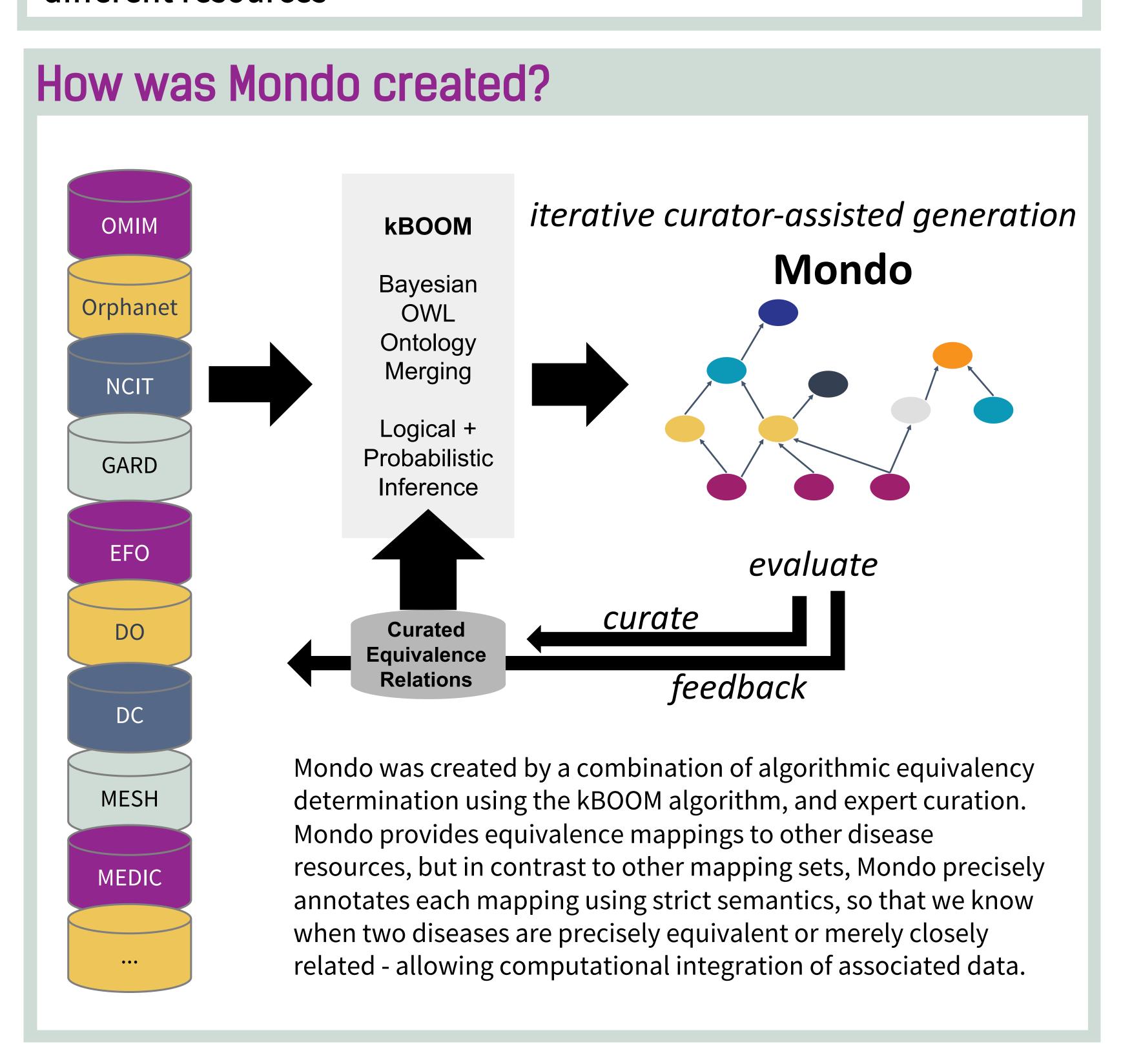
### What is Mondo?

Mondo is a unified disease ontology, encompassing many disease terminologies, which aims to harmonize disease definitions across the world.

# Why did we create Mondo?

- Lack of definitive standard for encoding diseases for information exchange
- Proliferation of mappings between disease terminologies

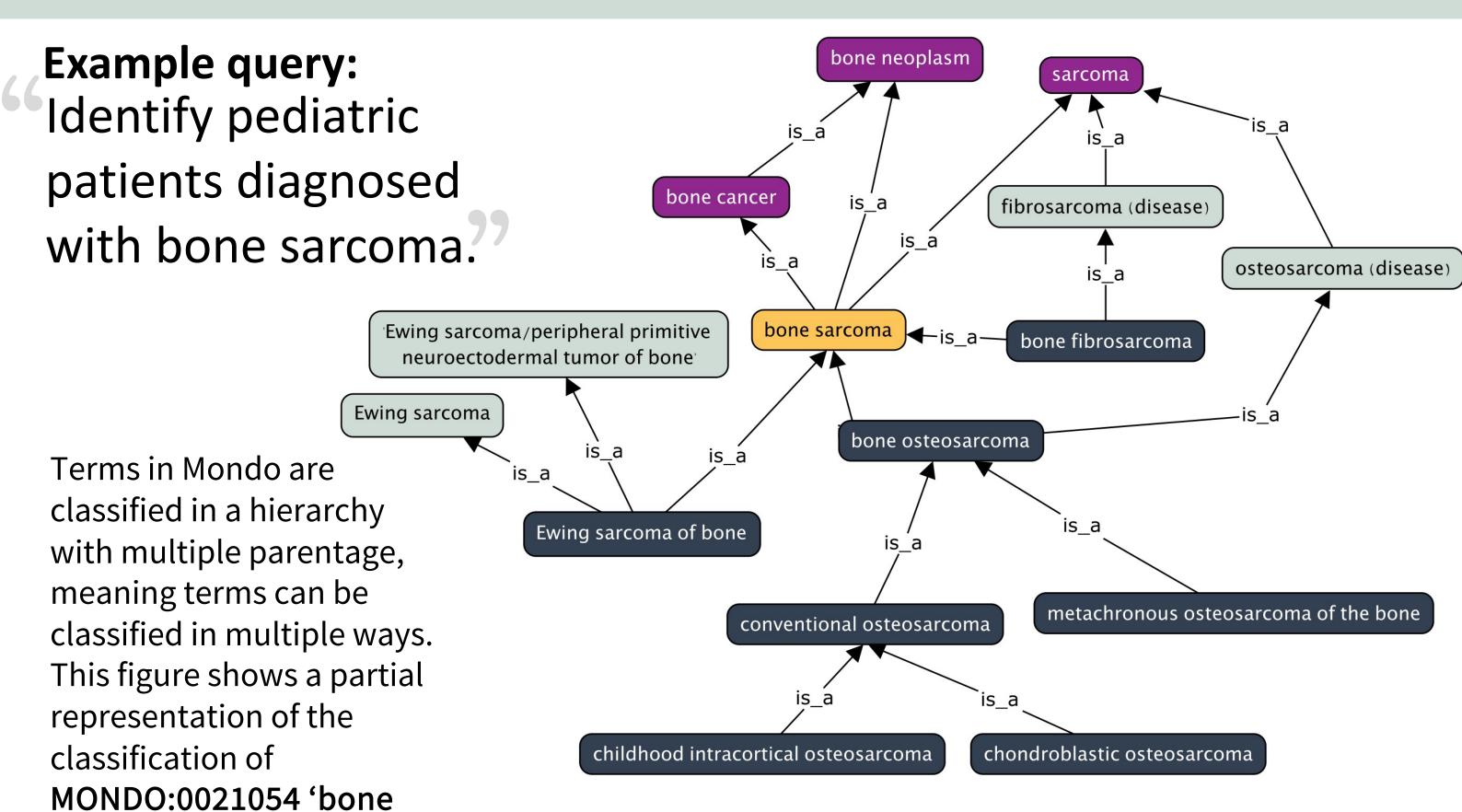
In order to computationally utilize our collective knowledge sources for diagnostics and to reveal underlying mechanisms of diseases, we need to understand which terms are truly equivalent across different resources





The Mondo Disease
Ontology provide a
logic-based structure
for unifying multiple
disease resources, for
use in structuring
disease descriptions in
childhood cancers and
beyond.

# Hierarchical and Graphical Disease Classification



**sarcoma**' (yellow). This type of classification allows for query expansion – for example, if you query on bone sarcoma, you will retrieve data annotated to subclasses, such as MONDO\_0002625 'Ewing sarcoma of bone' (dark grey). In addition, users can search on synonyms of bone sarcoma, such as 'skeletal sarcoma' and return the same results.

#### Users







Mondo, along with NCIt and the Human Phenotype Ontology are used to structure disease and phenotype descriptions for a number of resources, including the Kids First Data Resources Center, which is a curated database of clinical and genetic sequence data from pediatric patients with structural abnormalities or childhood cancers.

## Get Involved

## Mondo Website:

https://monarch-initiative.github.io/mondo/

GitHub Repository: https://github.com/monarch-initiative/mondo

Join our Mailing List:

https://groups.google.com/d/forum/mondo-users

#### **ACKNOWLEDGEMENTS:**