



Data harmonisation

Mélanie Courtot
EMBL-EBI
mcourtot@ebi.ac.uk

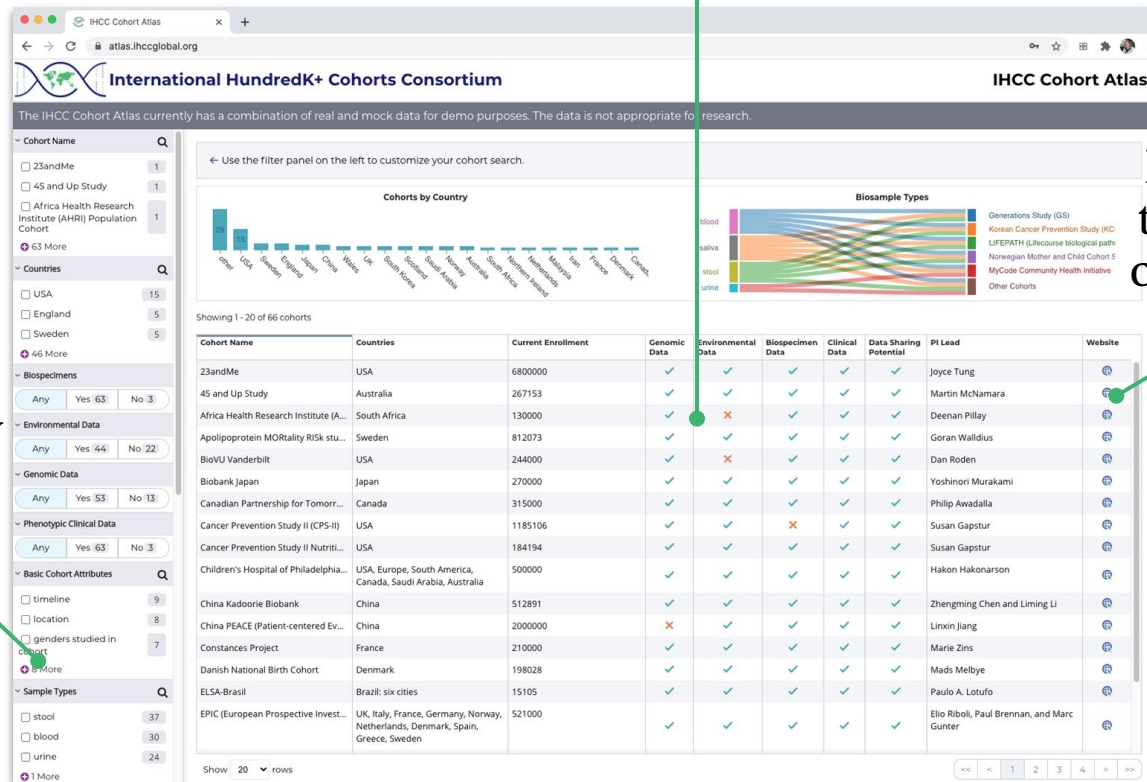


IHCC cohort atlas

Cohort
presentation
and display


Intuitive
filtering by
cohort
metadata &
data dictionary
attributes


Reference
to external
cohort sites




<https://atlas.ihccglobal.org>

Current status

-  **GECKO** model
- Filters do not distinguish between race and ethnicity
- Cohorts collect different elements; some used as proxy, e.g., country, native language

Socio Demographic And Economic Characteristics 

 Less

<input type="checkbox"/> Age/birthdate	10
<input type="checkbox"/> Education	10
<input type="checkbox"/> Ethnicity/race	9
<input type="checkbox"/> Family and household structure	9
<input type="checkbox"/> Marital status	6
<input type="checkbox"/> Occupation	6
<input type="checkbox"/> Gender	4
<input type="checkbox"/> Income and possessions	4
<input type="checkbox"/> Residence	4
<input type="checkbox"/> Biological sex	3
<input type="checkbox"/> Religion	3
<input type="checkbox"/> Birthplace	1
<input type="checkbox"/> Native language	1
<input type="checkbox"/> No Data	1





Next steps

De
Co
Tra



Model &
semantics

Model building

A clear definition of categories to be represented – label and textual definition
Shared community understanding and adoption



Next steps



Tools

Adoption



Knowledge

Domain expertise

Cohort owner expertise to map dictionaries towards shared standard
Training and documentation



Model &
semantics

Model building

A clear definition of categories to be represented – label and textual definition
Shared community understanding and adoption





Next steps



Tools

Provenance tracking

Ability to go back to the original information and understand which mappings were done and why



Knowledge

Domain expertise

Cohort owner expertise to map dictionaries towards shared standard
Training and documentation



Model &
semantics

Model building

A clear definition of categories to be represented – label and textual definition
Shared community understanding and adoption



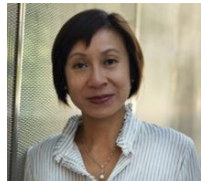
Acknowledgements



Thomas
Keane



Philip
Awadalla



Christina Yung



Rosi Bajari



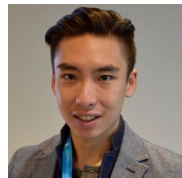
Giselle
Kerry



Melanie
Courtot



Eric
Plummer



Minh Ha



Brandon
Chan



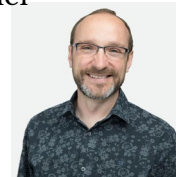
Carles
Garcia



Isuru
Liyanage



Dan Brake



Chris Lunt



James Overton

Rebecca Jackson

Nicolas Matentzoglou



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No. 825775.