

**MEETING ABSTRACT**

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# MOLGENIS catalogue

Morris Swertz<sup>1\*</sup>, David van Enckevort<sup>1</sup>, Chao Pang<sup>1,2</sup>

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## Characterisation

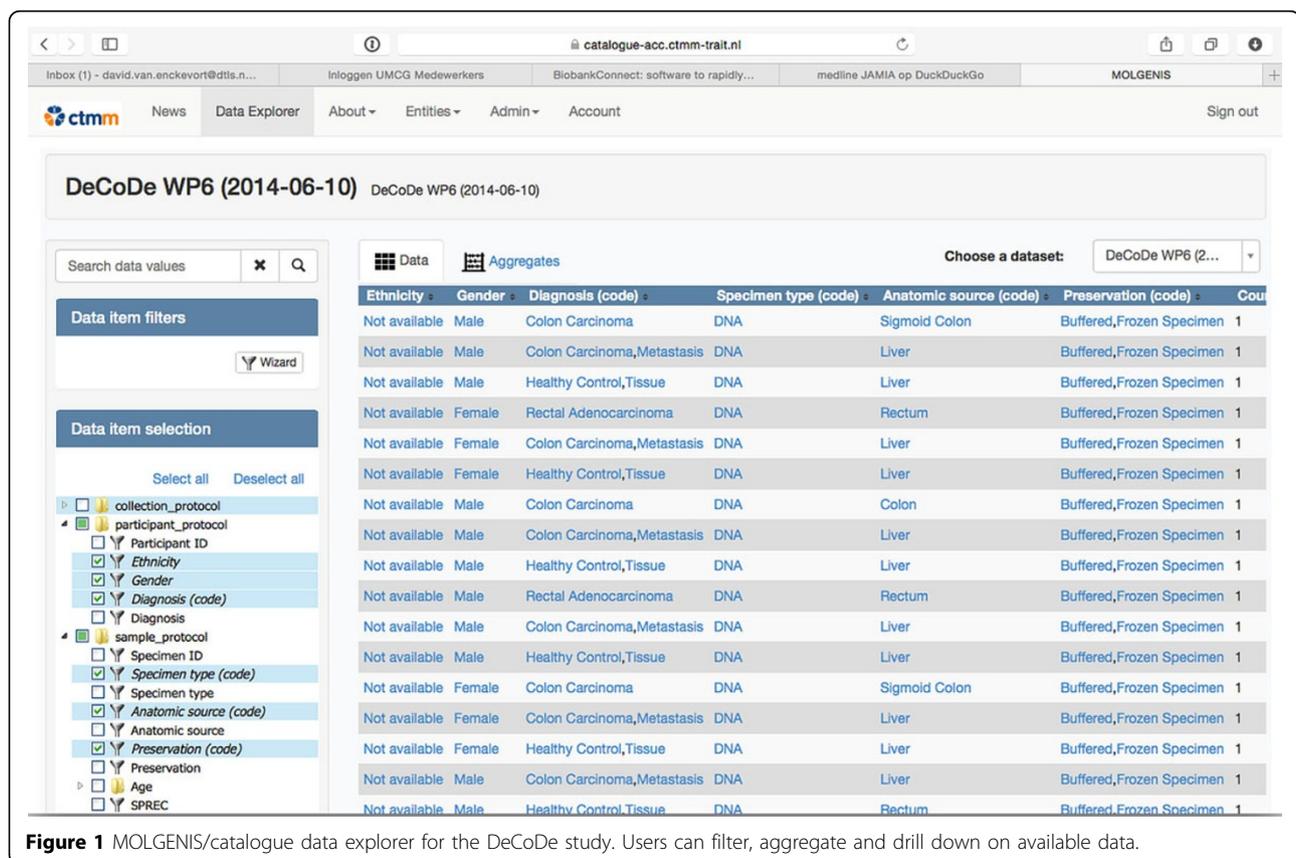
Tool, biobanking, meta-data, data, miabis, open source.

## Description

MOLGENIS/catalogue is a generic toolbox for building biobank and study catalogues and is used in BBMRI-NL, EU-BioSHaRE, EU-BioMedBridges, LifeLines, CTMM/

TraIT, Durrer Center, PALGA NL pathology network. The catalogue can host four levels of information:

- 1) Biobank/study descriptions using custom or MIA-BIS standard of BBMRI-ERIC format;
- 2) Data schema/data dictionary of data elements;
- 3) Aggregate data/sample availability counts and;
- 4) Individual level data ready for analysis.



**Figure 1** MOLGENIS/catalogue data explorer for the DeCoDe study. Users can filter, aggregate and drill down on available data.

\* Correspondence: m.a.swertz@rug.nl

<sup>1</sup>Department of Genetics, University Medical Center Groningen, University of Groningen, 9700RB Groningen, the Netherlands

Full list of author information is available at the end of the article

Increasingly bigger datasets are required for epidemiological and genetic analysis; hence it has become important to enable pooling of data from multiple biobanks. Therefore, the catalogue also comes with BiobankConnect, a tool to rapidly match data elements across studies and biobanks based on lexical matching and ontologies [1]. MOLGENIS/catalogue is build on the open source MOLGENIS platform [2] and offers pre-build components that allow users to upload data in a simple Excel format and supports any data model through a meta-data definition in the Excel file; to visualize the data in aggregated or tabular form; to share securely data through a comprehensive security model and to integrate data from different domains (Figure 1).

### Status of development

Stable/production ready; version 1.2.0.

### Users

10 known installations.

### Links

<http://github.com/molgenis/molgenis>, <http://www.molgenis.org>, [https://www.dropbox.com/s/bez1r4lq5q69o9e/Swertz%20ECRIN%20Dusseldorf%20catalogue%202014\\_05\\_26.pptx.pdf.pdf](https://www.dropbox.com/s/bez1r4lq5q69o9e/Swertz%20ECRIN%20Dusseldorf%20catalogue%202014_05_26.pptx.pdf.pdf)

### Authors' details

<sup>1</sup>Department of Genetics, University Medical Center Groningen, University of Groningen, 9700RB Groningen, the Netherlands. <sup>2</sup>Department of Epidemiology, University of Groningen, University Medical Center Groningen, Groningen, the Netherlands.

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### References

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2. Swertz MA, Dijkstra M, Adamusiak T, van der Velde JK, Kanterakis A, Roos ET, et al: **The MOLGENIS toolkit: rapid prototyping of biosoftware at the push of a button.** *BMC Bioinformatics* 2010, **11**(Suppl 12):S12.

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