

MEETING ABSTRACT

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# p-BioSPRE - p-medicine Biospecimen Search and Project Request Engine

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From 1st Clinical Research Informatics (CRI) Solutions Day  
Duesseldorf, Germany. 26-27 May 2014

## Characterisation

Web-based tool, networking of biobanks for personalized medicine, metabiobank, provision of trans-institutional and trans-national access to biobanks.

## Description

p-BioSPRE is a metabiobank providing trans-institutional and transnational access to biobanks (Figure 1)

while safeguarding patients' privacy and full biobank autonomy [1].

The p-BioSPRE architecture is based on modular CRIP tools and concepts (a metadata-driven, scalable, and robust system of relational databases with an xml-based query interface) [2]. It mirrors the hub-and-spokes structure proposed by BBMRI for national and international biobank networks. Contrary to biobank registries

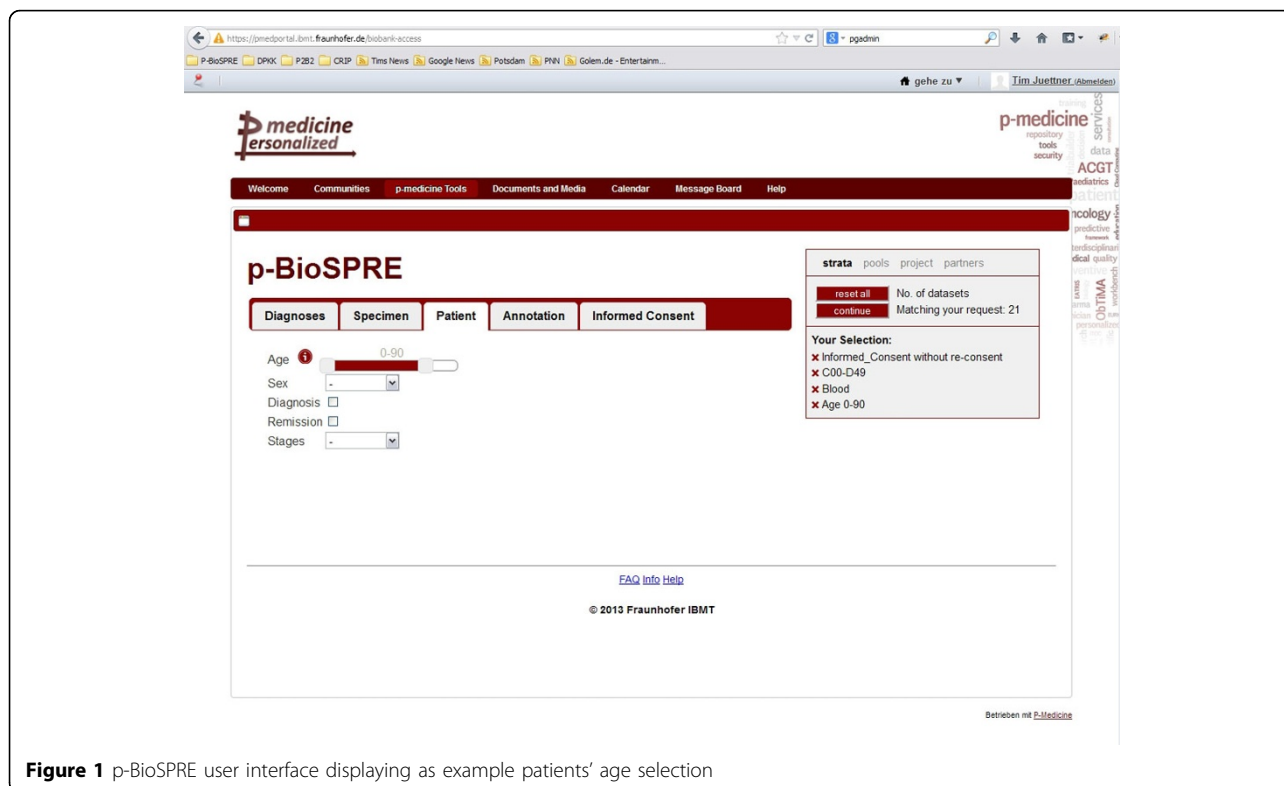


Figure 1 p-BioSPRE user interface displaying as example patients' age selection

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and catalogs, p-BioSPRE allows for up-to-date queries on a case-by-case and specimen-by-specimen basis. It caters to both: researchers looking for well-annotated human specimens from all disease areas and biobank operators conveniently offering donated specimens and data for research.

p-BioSPRE is in line with the BBMRI requirements for data integration systems and the p-medicine security framework. Its central infrastructure is maintained by Fraunhofer.

### Status of development

Access to the operative version of p-BioSPRE is restricted to p-medicine partners. The test and demo version 0.6 is on-line (links below) since May 23, 2014. Evaluation of p-BioSPRE by p-medicine clinical partners is ongoing until 2015.

### Users

Researchers looking for stratified human specimens.

Biobank operators looking for projects and partners to make use of donated specimens and data.

### Links

p-BioSPRE Demonstrator [<https://preview-crip.fraunhofer.de/intern/demo/searchtool/search/p-biospre.cgi>]; CRIP Toolbox [<http://www.crip.fraunhofer.de/en/toolbox>]

### Acknowledgement

Supported by p-medicine (European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement No 270089).

Published: 22 May 2015

### References

1. Schröder C, Heidtke KR, Zacherl N, Zatloukal K, Taupitz J: Safeguarding donors' personal rights and biobank autonomy in biobank networks: the CRIP privacy regime. *Cell Tissue Bank* 2011, **12**(1):233-240.
2. Weiler G, *et al*: p-BioSPRE – an information and communication technology framework for transnational biomaterial sharing and access. *ecancer* 2014, **8**:401-419.

doi:10.1186/2043-9113-5-S1-S20

Cite this article as: Schröder *et al*: p-BioSPRE - p-medicine Biospecimen Search and Project Request Engine. *Journal of Clinical Bioinformatics* 2015 **5**(Suppl 1):S20.

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