

Welcome!

National Biobank Initiative - Kickoff-Meeting

"The German Biobank Registry with Integrated User Portal - Presentation and Application"

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The "German Biobank Registry with Integrated User-Group-Portal"

Application submitted: 05.05.2009

Runtime: 18 months; Budget: 296 T€

Work packages:

- Definition of register elements, creation of an user interface, operation of the Web-based Registry
- \$\ Implementation and operation of an <u>User-Group-Portal</u> for the biobanking community
- ♥ Quality control and assurance of registry and portal; appointment of Board of <u>Curators</u>

BMBF-Funding-ID 01 EZ 0940 as of 12 March 2010



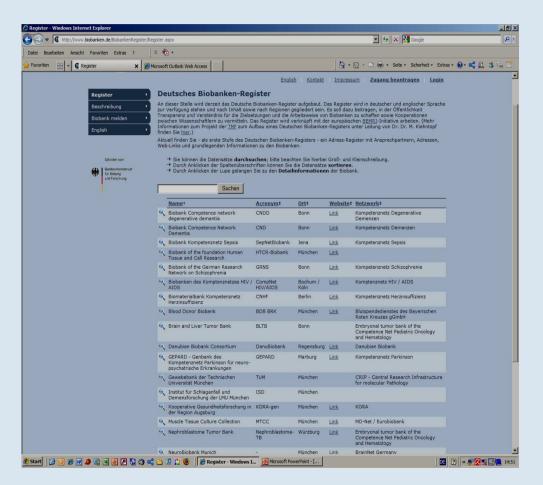


Project Leader





1st generation "www.biobanken.de"



As of April 2011: 99 biobanks

Function:

web-based open access registry of addresses & contacts with simple "Search Function"

Limitations

- Rudimentary search function – no multiple search filters
- limited update function for the data
- no direct control by the biobank operator to manage data



Über uns Biobanken **User Portal** News Presse Such-Modus Edit-Modus Exchange Browser-Modus Filterpfad: Wählen Details Biobank Ort Website Kontakte 0 BerBio Berlin www.biobanken.de Policies 0 Kiel PopGen www.popgen.de Materialgruppen ASK-TX München www.asklepios.com/klinik Probandengruppen 0 BA Geburt Jena www.geburtshilfe.uniklinikum-jena.de Phänotypen 0 CNDD Bonn www.knd-demenzen.de Förderungen 0 CND Bonn www.knd-demenzen.de Sammlungen 0 Dermaprobe Jena www.derma.uniklinikum-jena.de Biobank HNO Jena www.hno.uniklinikum-jena.de Lions Cornea Bank BW Freiburg 0 BMB-Patho CAU Kiel 0 PsyCourse Göttingen CCM (CRIP) Berlin www.charite.de Rectal Cancer Biobank Göttingen 0 MITO-BIO Neuherberg www.mitonet.org BETRIEBEN VON

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Underlying Technology





http://www.itm-consulting.de

- Liferay (Registry Application)
 - Java based Content Management System
 - Database: MySQL
 - Tomcat Webserver
- DotNetNuke (User Portal)
 - ASP.NET
 - Database: MSSQL 2010
 - IIS Webserver

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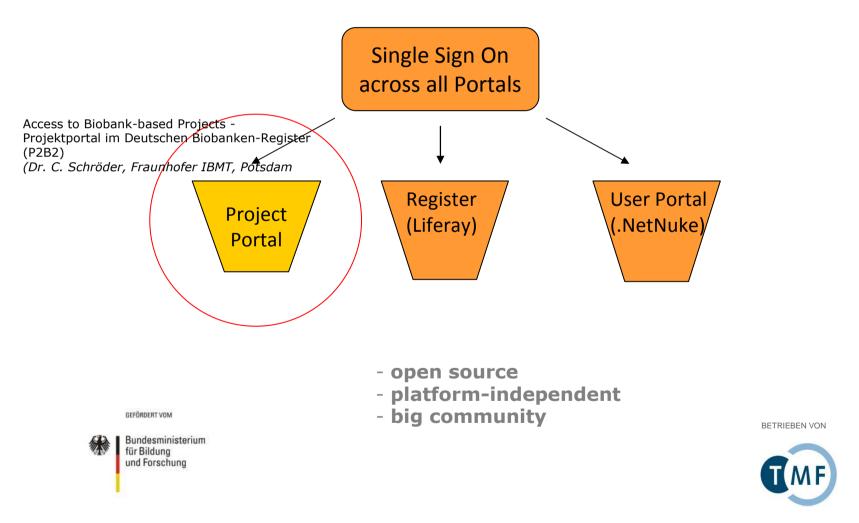




Architecture



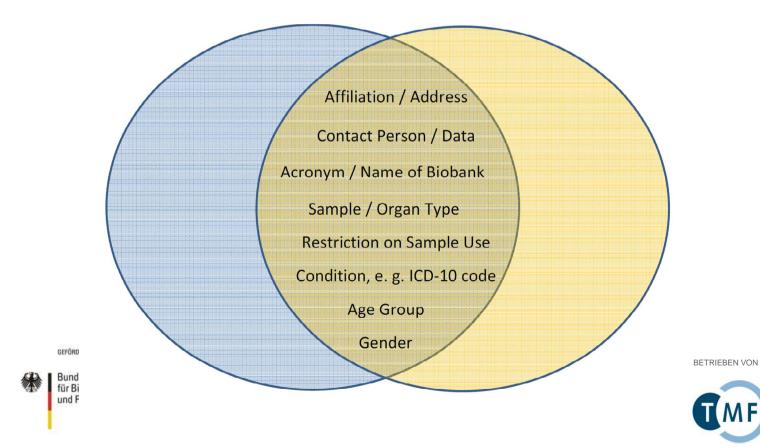
User Management / Login



Compatibility



Overlap between DBR and "Catalogue of European Biobanks" to develop a data exchange interface





Biobanken

User-Porta

Projektportal Über uns



Board of Curators







"Regulations & Ethics"

- Data Protection
- Informed Consent & Privacy
- Material Transfer Agreement
- Biobanking Policy

"Quality Control"

- SOPs
- SPREC
- Sample Handling
- Sample Sharing

"Public Relations"

- Information for Donors
- Publications
- Announcements
- News & Views

"IT"

- LIMS
- Automatisation
- Anonymization
- Standardisation

authenticated, registered users can read & write







Application



Use Cases*

Research Strategy

- identify biological samples from cases/controls
- look for collaboration
- retrieve coded samples / information
- perform state-of-the-art biochemical / genetic tests
- what kind of samples are being used?
- what diseases / conditions are being investigated?
- who is funding orphan diseases?
- what kind of research is under or overrepresented

Establish a biomaterial bank

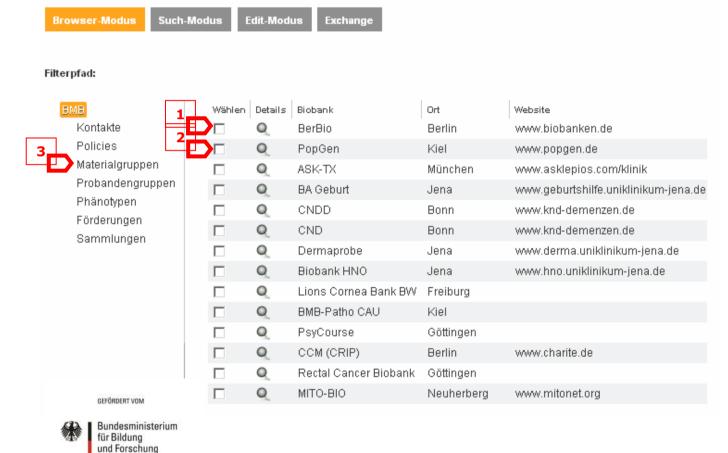


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Home Biobanken User-Portal Projektportal Über uns







Home Biobanke

User-Portal

Projektportal Über uns

Browser-Modus

Such-Modus

Exchange

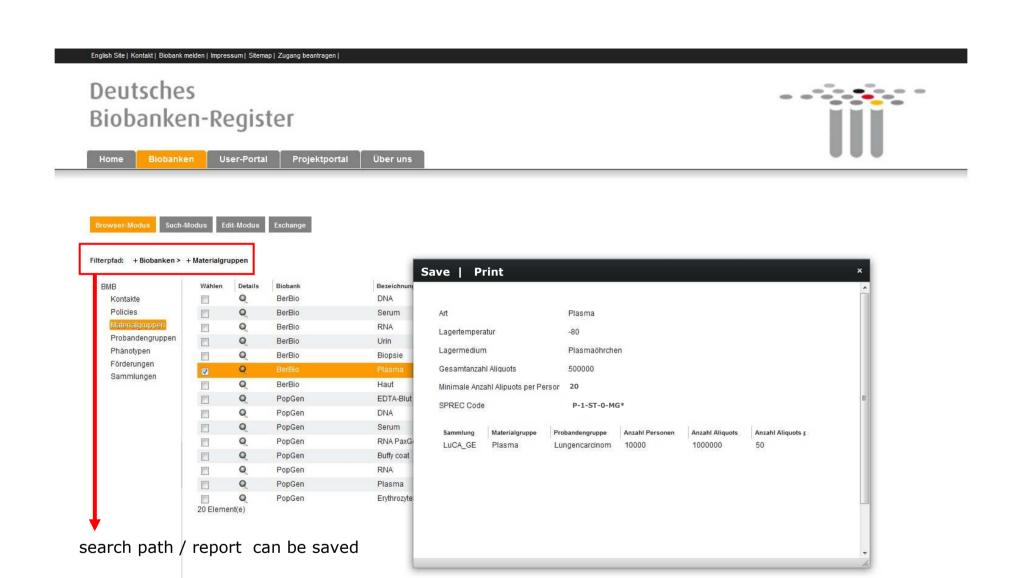
Filterpfad: + Biobanken

Wählen	Details	Biobank	Bezeichnung	Anzahl Aliquots
	0	BerBio	DNA	10000
	0	BerBio	Serum	1000000
	Q	BerBio	RNA	5655
	0	BerBio	Urin	3444335
1	Q.	BerBio	Biopsie	70000
	Q	BerBio	Plasma	500000
	Q	BerBio	Haut	100
	0	PopGen	EDTA-Blut	32554
	0	PopGen	DNA	72583
	Q	PopGen	Serum	21806
	Q	PopGen	RNA PaxGene	4550
	0	PopGen	Buffy coat	693
	Q.	PopGen	RNA	911
	0	PopGen	Plasma	7812
□ 20 Elemen	Q it(e)	PopGen	Erythrozyten	6416

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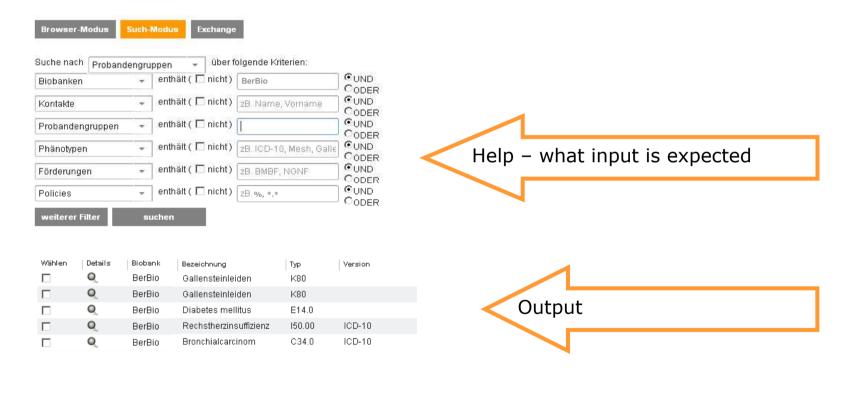
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Powered By <u>Liferay</u>

Settings Online Fr



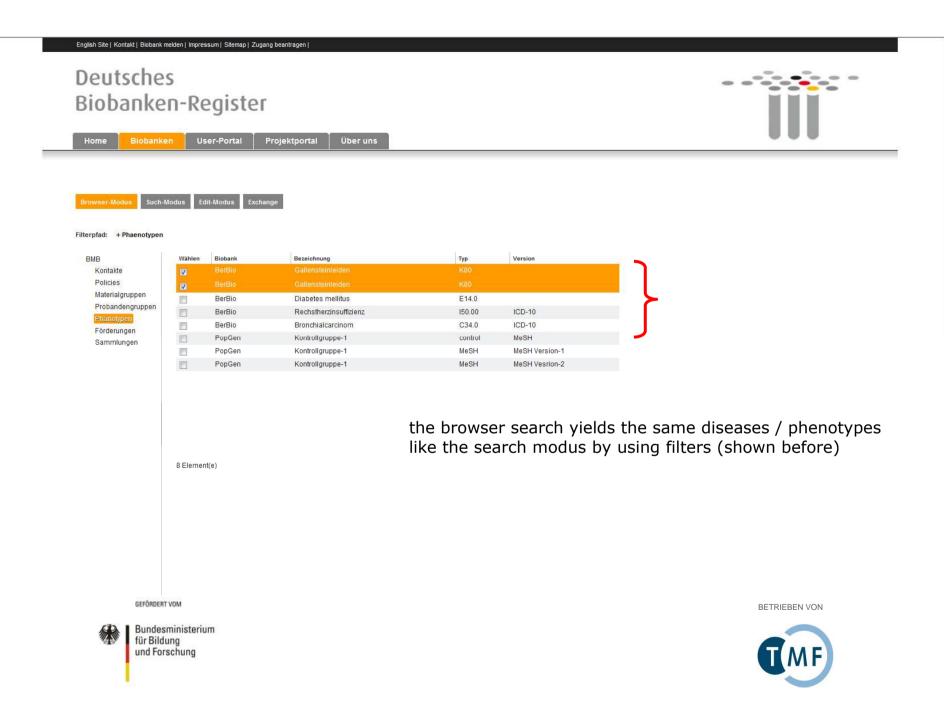
Home Biobanken User-Portal Projektportal Über uns

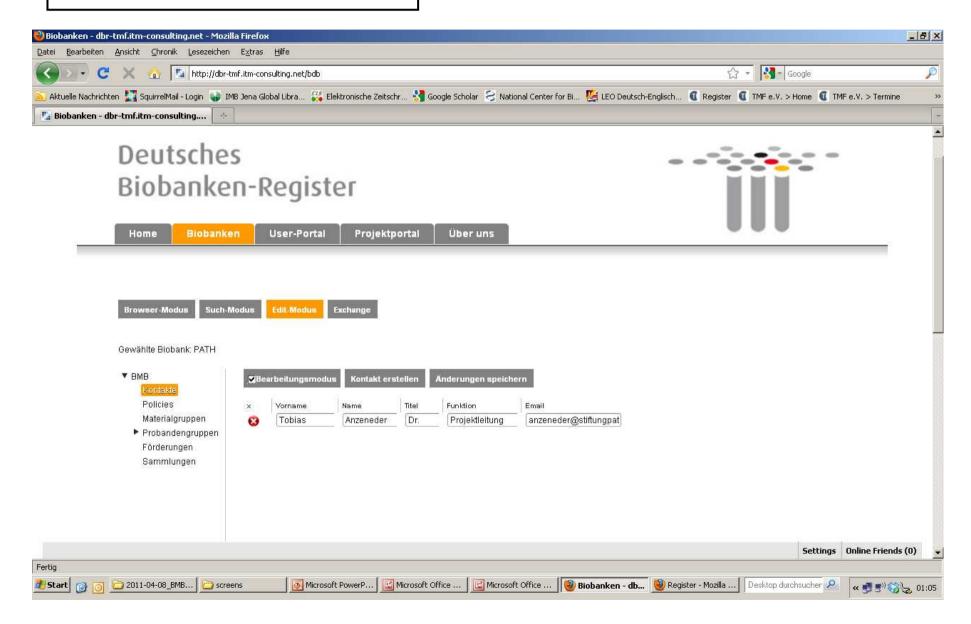


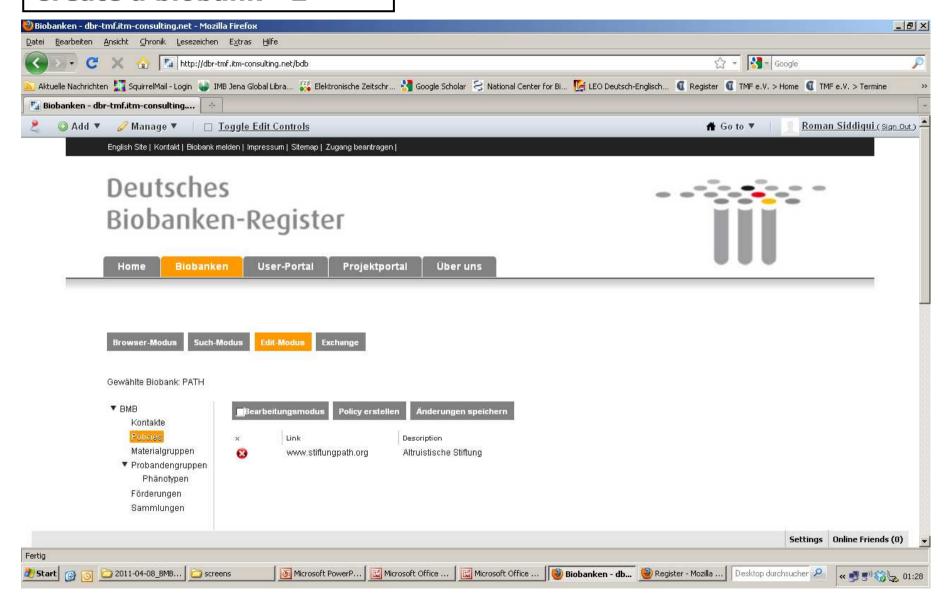
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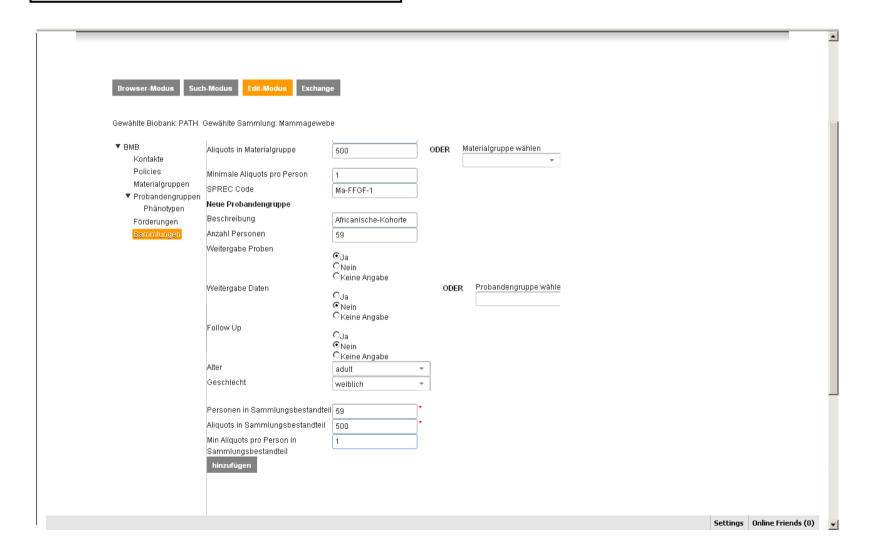












Deutsches Biobanken-Register





Fertig



current project group "Deutsches Biobank-Register"



(SEPNET), University Hospital, Jena



Dr. Dr. Michael Kiehntopf Project Leader



TMF

• (TMF Head Office), Berlin Co-Project leader & Coworker



Sebastian C. Semler Chief Scientific Officer



Cornelia Scheel Assistance



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Cathleen Plötz IT-Specialist (part-time)



• Dr. Christina Schröder (IBMT), Potsdam



PD Dr. Michael Hummel
 Charite Berlin (Spokesman WG BMB - TMF)



Prof. Dr. Michael Krawczak,
 University Kiel (Vice
 Spokesman WG BMB - TMF)



appointees
Board of Curators

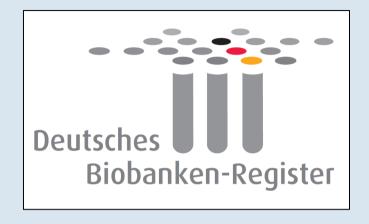


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- Lukas Tittmann, PopGen
- Esther Herpel, University Heidelberg



Thank you for your attention!





BMBF Funding ID 01 EZ 0940

Further information:

www.biobanken.de

www.tmf-ev.de

www.tmf-

ev.de/EnglishSite/WorkingGroups/Biobankingworkinggroup.aspx

→ Biobanking Working Group www.tmf-ev.de/EnglishSite/ProductsServices.aspx

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