Connecting researchers and biobanks: The BioLink experience. What’s “NExT”? 

Presentation of Swiss Biobanking Platform
Christine Currat, SBP Executive Director
SBP is the research infrastructure of national importance supporting biobanking activities (human and non-human domains)

- Position CH at the forefront of research by facilitating access to and optimal usage of high quality samples
- Increase quality, visibility, transparency, accessibility and interoperability of biobanks
Swiss Biobanking Platform
— FUNDING AND OBJECTIVES

1. SBP promotes a **quality strategy** for biobanks that serves both quality management issues and sample quality

2. SBP promotes **access and sharing** of biobanked samples for high-quality research

3. SBP supports **non-human biobanks** with specific guidelines and services

4. SBP consolidates the collaboration with the **European networks** of biobanks

5. SBP provides a concept for its **sustainable funding**
Swiss Biobanking Platform — POSITIONING IN THE NATIONAL RESEARCH LANDSCAPE

University Hospitals and ETH/EPF

Swiss Clinical Trial Organisation (SCTO)

Data

Clinical trials

Swiss Personalized Health Network (SPHN)

Biological Material

Swiss Biobanking Platform (SBP)

Biobanks

Human field

Non-human field

Specific Clients

Clinicians

Common Clients

Researchers

Clinicians

Note: Scaling of the scheme is not representative
Swiss Biobanking Platform — SBP STRATEGY

How SBP supports researchers and biobanks?

A combined approach with innovative processes and tools

Classical approach

- SOP’s, datasets, guidelines, working groups, …
- ↓
- Publication on website

Innovative approach

- Create incentives for biobanks to implement the guidelines
- ↓
- Easy-to-use and ergonomic tools
Swiss Biobanking Platform — SBP CLIENTS

Biobank Infrastructures
- Offers services to biobanks

Biobanks
- Manages samples

Researchers
- Uses samples
  - Trust and access in biobanks
  - Reproducibility of results
  - Sharing guidelines

Primary clients

Secondary beneficiaries

ROI is expected to show steady growth over the years with the SBP platform evolution
Swiss Biobanking Platform
— SBP EXECUTIVE OFFICE

A special thanks to my collaborators

An efficient, committed and client oriented team
Swiss Biobanking Platform

A step-by-step approach for biobanks to reach the minimal level of requirements

BIOBANK SQAN ➔ REVIEW ➔ SUPPORT DOCUMENTS ➔ LABELISATION ➔ SBP NEXT

ANNUAL REVIEW

Biobank SQAN assets:

- A compliance process to evaluate and monitor your biobank
- Preparation to the new ISO norm on biobanking 20387
- Participate to biobank’s education on governance and quality issues
- An innovative way to harmonise different biobanks
- Promote visibility through SBP and BBMRI directories
SBP labelized biobanks gain in quality, accountability and visibility

“I wish to comply with the applicable legal & ethical requirements”

“I wish to guarantee the quality of my biobanking processes and the harmonization of my practices at the national level.”

“I wish to establish a complete Quality Management System (QMS) for European projects.”

SBP NETWORK
(at least VITA biobanks are visible)
Swiss Biobanking Platform

The new interactive e-catalogue dedicated to biobanks and researchers

- **Macro** Biobank or infrastructure level
- **Micro** Sample level

SBP Directory

SBP E-Catalogue

BBMRI Directory

Federated Platform (2021 under construction)

Interoperability
- Create simple and efficient gateway
- Same Subject Pseudo Identifier in both environments (mandatory)
- Uniformization of the data pipeline processes
- Avoid data duplications
Key features

1. No tool to deploy at the hospitals or biobanks
2. Loads on demand or automated
3. Data quality validation before import into E-Catalogue
4. Specific datasets aligned with SPHN

Solution hosted by SIB on BioMedIT SPHN Node (leverage SPHN security)

Different access rights
- Public
- Restricted access: communities managed by biobanks

Terms of use and privacy notice for biobanks and researchers (GDPR aligned)
Swiss Biobanking Platform

Biobanks and Biobank Infrastructures

THE MONITORING PLATFORM TO MAKE YOUR SAMPLES VISIBLE FOR THE RESEARCH COMMUNITY IS READY

It has already been tested and improved for you!

Thanks to the pilot biobanks

- Vetsuisse biobank
- Bern and Zürich Pathology biobanks - Patholink
- Liquid biobank Bern (biobank infrastructure)
- Swiss Transplant Cohort Study

Register your biobank in the Biobank SQAN, obtain at least the VITA label and your biobank data will be visible in the SBP NExT.

Then,

- IMPORT your samples data from excel sheets, with a SBP-script or from your BIMS
- Choose your samples to be visible publicly or within a selected COMMUNITY

If you are interested, contact us
info@swissbiobanking.ch
Swiss Biobanking Platform

Researchers

WE ARE BUILDING AN INNOVATIVE PLATFORM FOR YOU

The «NExT» process:
the foundation of a future «one stop shop»

- Search
- Selection
- Inquiry
- Agreement
- Completion

The biobank is always the only to decide if the samples are shared with the researcher.
SBP NExT is an intuitive and visual tool to discover Swiss biobank network through a simple drag-and-drop interface.

Ready to discover the NExT?

A team work presented by Dr Khalil Klouche, innovation officer at SBP
Thank you!

• My team

• Members of SBP Governing Board

• SNSF privileged partners

• Biobanks part of the SBP network

• The pilot biobanks for the NExT

• Chairs of the workshop sessions

E-mail: christine.currat@swissbiobanking.ch
Web: http://swissbiobanking.ch/