

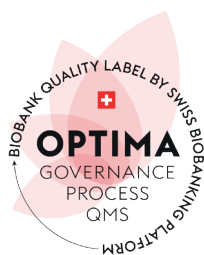


**FACTSHEET** PLATFORMS AND SERVICES

## SCMB – Swiss Center for Musculoskeletal Biobanking

The Swiss Center for Musculoskeletal Biobanking, situated within the Balgrist Campus, a modern research facility in Zurich, Switzerland, serves as an open biobank platform facilitating the collection, storage, and analysis of tissues and liquid biosamples, particularly focusing on musculoskeletal disorders.

Engaging researchers, developers, and industry professionals both locally and internationally, SCMB has actively participated in various local, national and international clinical studies for several years. Utilizing our extensive research experience, the SCMB stands ready to support you throughout your scientific journey, from sample collection to publication.



### The SCMB has been certified

Our procedures adhere to established standards, including the ISO 20387:2018 certification, as part of our enduring commitment to delivering high-quality samples to the research community.

### The SCMB provides ...

- ... cost-effective, secure, long-term storage for clinical specimens used for research.
- ... precise sample handling through automated storage and retrieval systems.
- ... extensive sample tracking, including parent-child relationships, and detailed temperature documentation.
- ... fast and secure shipment services.
- ... guidance on establishing biobank studies and scientific expertise in bone and joint diseases.
- ... strict adherence to applicable Swiss law (Human Research Act, HRA).

## Infrastructure

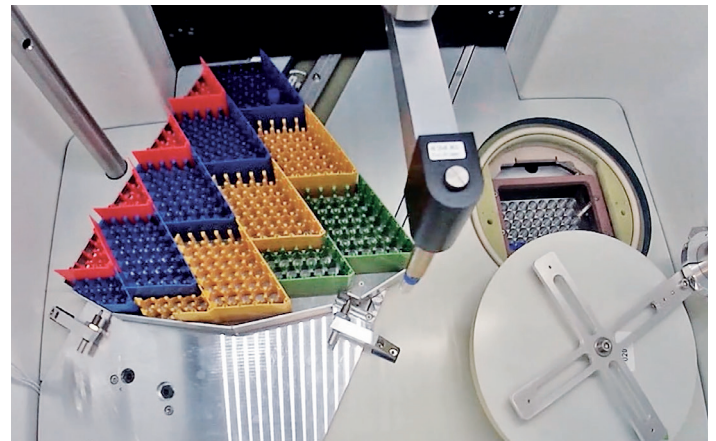
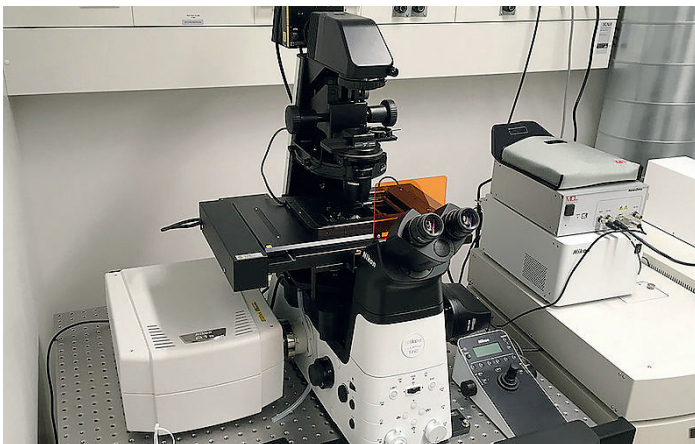
We offer a range of cryo-infrastructure options for short or long-term sample storage:

- Our cryo-infrastructure supports manual, semi-automatic, or full-automatic operations.
- Cryopreservation can be performed at  $-20^{\circ}\text{C}$ ,  $-80^{\circ}\text{C}$ , or at  $-170^{\circ}\text{C}$  in gas phase liquid nitrogen.
- Automated, temperature-curve guided sample freezing using 2D-barcode sample tubes with sample volumes ranging from 0.5 to 10 mL.
- All freezers are seamlessly integrated into a 24/7 emergency backup system to ensure constant temperature maintenance.

Additionally, our highly standardized sample preparation pipelines facilitate downstream biochemical analyses, such as:

- High-end confocal or widefield fluorescence microscopy.
- Cell sorting.
- Sample cryosectioning / histology.
- Cell culture at biosafety level 2.

**All our equipment can be electronically booked and used at your convenience.**



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