



# Services of BBMRI.at Biobank Partners





## Services offered by BBMRI.at partners

The following services to conduct your research and project are offered:

### Providing Access to Samples and Data:

- Animal samples and data (cat, dog, ferret, guinea pig, hamster, horse, monkey, mouse, pig, rat sheep)
- Human samples and data
- Paraffin blocks (FFPE)
- Paraffin sections (slide mounted, unstained)
- Liquid samples (serum, EDTA-plasma, Li-Hep plasma, Na-Citrat plasma Buffy coat, urine, whole blood, saliva, follicular fluid, seminal plasma, synovia fluid, cerebrospinal fluid, feces, ascites, PBMC's)
- Fresh frozen tissue
- Frozen tissue sections (e.g. slide mounted or in vials for nucleic acid analysis)
- Histochemical slides (e.g. H&E, CAB, ...)
- Immunohistochemical slides
- Whole slide images (i.e. digital images of (immuno-)histochemical slides)
- Tissue micro array paraffin blocks
- Tissue micro array paraffin sections
- Primary cells and tissue culture
- Other sample types (e.g. isolated RNA, DNA, protein, ...)

### Sample Processing:

- Processing of sample types mentioned above

### Sample Storage Capacities:

- 24/7 temperature controlled sample storage at various conditions
- Long-term storage of archived samples
- Ultra-low freezer (-70°C to -90°C) 24/7 controlled
- Vapor phase liquid nitrogen (-135°C to -196°C) 24/7 controlled

### Supporting Research Projects:

- Supporting researchers during sample access process
- Supporting researchers during ethics application for a specific project
- Prospective sample collection (planning)
- Prospective sample collection/processing/storage/sample management (realization)
- Establishment of prospective sample collections according to ISO /CEN/TS standards (e.g. ISO 20166; ISO 20184, ISO 20186, etc.)
- Supporting researchers concerning latest (pre-analytical) quality standard requirements
- Pathological evaluation and selection of appropriate cases
- Organization of sample/data transfer

### Related Infrastructure & Equipment:

- Shared use of biobank equipment/lab space for researchers
- BSL2 Lab



- BSL3 Lab
- Various (local) partners with specialized equipment, expertise and service offers (e.g. core facilities)

### Consultancy on Topic Related to Biobanking e.g.:

- Laboratory medicine (selection of appropriate anticoagulants, storage conditions, etc...)
- Study design
- Quality management and quality control
- ISO Standards (and CEN/TS) in biobanking
- Implementation of standards and SOPs in biobanking processes
- Data management
- Ethical issues & legal issues
- Project management
- Statistics
- Budgeting and business planning

### Services for Donors:

- Processing withdrawals of biobank informed consents
- Biobank on site tours for the public

### Data management:

- Development of research cohort database

### Services Related to Infectious Diseases:

- Virus, RNA, DNA, protein isolation
- Whole genome sequencing
- Neutralization tests etc.

### Services related to cancer research:

- Whole exome sequencing
- Whole genome sequencing
- Digital pathology – mass scanning for whole slide imaging
- Metabolomics
- Lipidomics
- Isolation/Establishment of patient derived cell lines (short and long term cultures)
- Isolation/Establishment of cancer-associated fibroblasts from the same patient
- Cell culture 3D models

### Further Services:

- Contact to and networking with other biobanks
- Education and training courses in biobanking
- Biobank on site tours for experts (e.g. researcher, medical doctors, cooperation partners, etc.)