University Hospital in Pilsen and Biobank

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Czech Republic
Medical Faculty (MF) and University Hospital (UH) in Pilsen

MF - part of Charles University
UH - biggest hospital in southwest Bohemia
University hospital in Pilsen

basic facts

• 1,739 beds in 54 units
• 4,662 employees
• 22 centres for specialised and superspecialised care
• research – national and international cooperation
• publications - 250 with IF- yearly
University Hospital in Pilsen nationwide significance

- bone marrow transplantation
- liver surgery
- prostate surgery
- kidney tumors
- oncology
- screening programs
  - pregnancy
  - Down syndrom
  - thyreoid disease
  - D vitamin deficiency
connection with international societies

guidelines preparation

10 years collaboration
5th World Congress on PPPM
2019 Pilsen

regularly active participation
Biobank Pilsen Start: April 20, 2017

How does it work?

- **AutoMate 1250/2550**

  - Automatic bar code reader (6 type for plate)

  - ISB License

  - Sorting Drive PC

  - iPAW

  - Department PC

  - Code reader

  - Plates with 48 microtubes (300 µl - 400 µl)
AutoMate 1250

Primary samples

Routine part

Biobanking
What is ISB?

- **Intelligent Sample Bank software**
- SW for automatic creation, archiving and searching of sample aliquots
- samples are stored in micro tubes
- volume 300 – 400 µl
- plates with the 48 positions
what we do

systematic collection and storage
serum
plasma
diagnoses
oncology diseases
cerebrovascular diseases
cardiovascular diseases
neurodegenerative diseases
International collaboration and membership

BBMRI-ERIC
Biobanking and BioMolecular resources Research Infrastructure

ESBB
European, Middle Eastern & African Society for Biopreservation and Biobanking

isber
INTERNATIONAL SOCIETY FOR BIOLOGICAL AND ENVIRONMENTAL REPOSITORIES
Project of cross border collaboration
Bavaria and Pilsen Regions

• BRoTHER project

Biobank Research on Telemedical Approaches for Human Biobanks in a European Region
management

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