

National oncology network for improved cancer control





Projects for improved cancer control

Human Biological	1+ Million	National Pan-Tumor
Resource Center	Genomes	Multi-Drug study
Development of cancer diagnostic systems	Optimization of oncology patients' flow management	Health care service provision model for oncological patients during pandemics



Human Biological Resource Center



Aim of the project: to join the international research infrastructure BBMRI-ERIC, while creating a modern infrastructure of the national biobank in Lithuania.

- Adaptation of 5 premises for the operation of HBRC storage facilities;
- Installation of equipment necessary for the operation of the HBRC;
- Development and implementation of a unified HBRC IT system;
- Joining the international research infrastructure BBMRI-ERIC;
- Preparation of HBRC legislations related to: quality management, sample provision, data protection.





7.93 M €



1+ Million Genomes

National mirror group composed by 12 members from research, universities, clinics, ministry, and patients organizations.

National genomics network:

- Infrastructure: Biobanking, NGS;
- WGS, WES collections: VUH SK generates 600 cancer WES, 300 rare disease WES, 800 panel NGS testing annually; general population WGS 150, WES 150, SNP-CGH 600;
- Qualified personnel: medical biologists, medical geneticists;
- Funding: Next generation Lithuania, under the The Recovery and Resilience Facility (genetic analyzers, storage and computing reourses, WGS – GoLT).





National personalized oncology initiative: an open label, prospective, nonrandomized Pan-Tumor Multi-Drug Study of targeted anti-cancer treatment based on comprehensive genomic profiling

Aim of the project: to establish personalized medicine model in Lithuania.

A prospective, non-randomized clinical trial that aims to establish **personalized medicine model** in Lithuania by performing next generation sequencing for biomarker analyses, creating biobanking platform, implementing molecular tumor board and improving personalized medicine accessibility for patients with an advanced solid tumor, that harbors a drugable mutation.





Development of cancer diagnostic systems



Aim of the project: to conduct research related to the development of **liquid biopsy molecular tests** for prostate and kidney cancer, meant to determine the risk of disease progression and to predict response to treatment.

- Applied research related to the development of models and associated technologies for cancer diagnostic systems;
- Experimental development of prototypes of 2 cancer diagnostic products;
- R&D infrastructure development.







Optimization of flow management for patients with suspected oncological disease in specialized oncology care facilities



Aim of the project: to optimize the flow of oncology patients with suspected or confirmed oncological disease and to accelerate the timely access to personal health care services.

- Priority flow management model development;
- Training for 500 health care specialists and 18 cancer patient case management specialists;
- Pilot activities for model testing;
- Presentation of pilot results to health professionals and policy makers.





0.89 M €



Health care service provision model for oncological patients during pandemics



- Analyze the patient's pathway and identify changes during the pandemic;
- Assess the barriers and develop a model for the provision of services;
- Identify key indicators for monitoring the healthcare delivery system during a pandemic;
- Test the methodology of patient path administration and management of human and material resources in a specialized medical institution;
- Carry out an economic assessment of the implementation of the scenarios.







Supporting the Mission on Cancer



Ballot box for Citizen suggestions



Events of 90th anniversary of National Cancer Institute of Lithuania



Thank you for your attention!



