



UNLOCKING INFECTIOUS DISEASES RESEARCH POTENTIAL AT RĪGA STRADIŅŠ UNIVERSITY (BALTINFECT) Grant agreement No. 316275

Structural units involved in project implementation

A.Kirhenšteins Institute of Microbiology and Virology, Laboratory of Clinical Immunology and Immunogenetics, Department of Infectology and Dermatology.



Partnering organisations of the project

Uppsala University and Karolinska Institutet (Sweden), London School of Hygiene and Tropical Medicine, and Buckinghamshire New University (UK), Stenbeis Reseach Center (Germany), Lithuanian State Institute of Innovative Medicine (Lithuania), Medical University of Silesia (Poland), The Katholieke University Leuven (Belgium), Centre of Epidemiology and Microbiology (Belarus) Ministry of Health, University College Dublin and St Vincent's University Hospital (Ireland), Institute of Experimental Morphology, Pathology and Anthropology, Bulgarian Academy of Sciences (Bulgaria)



The total costs of project are 2.28 million EUR, 2.049 million EUR of which are funded by the European Commission.

The duration of the project is
till 28 February 2017

Project aims at strengthening the multidisciplinary research in the field of infectious diseases as a crucially important part of the field of health science in Baltic, European and global dimension by unlocking the research potential at Rīga Stradiņš University.

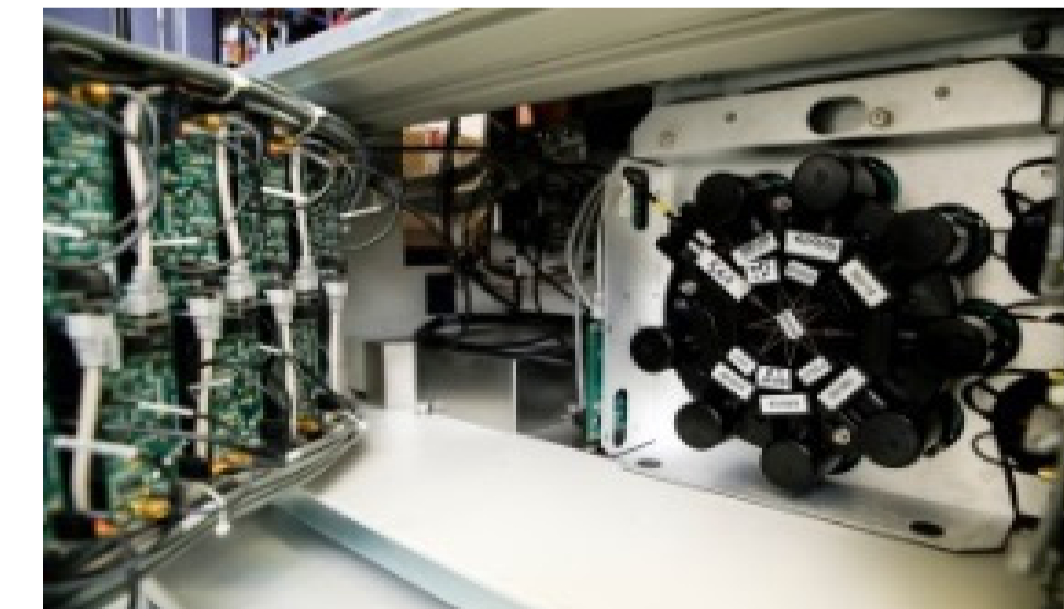
FROM 2003 UNTIL 216, WITHIN THE FRAME OF THE BALTINFECT PROJECT, THE FOLLOWING HAS BEEN ACHIEVED:

1. Potential of human resources has been increased significantly in the following fields of research:

- Role of persistent viral infections in the development of non-communicable diseases (central nervous system diseases, autoimmune diseases and malignant processes);
- Newly discovered viruses, their prevalence in Latvia and links to different pathological processes;
- Immune modulators and Immunomodulatory therapies;
- Medical biotechnology for manufacturing of new functional foodstuffs and food supplements;
- Nanotechnology in oncology and virology to improve drug delivery – RNA aptamers;
- Express diagnostics and differential diagnostics with multiplex platforms;
- Immunovisualization and cell biology;
- Mathematic modelling of epidemics to develop approaches for control of infections, including newly discovered ones.

2. Research infrastructure has been upgraded by purchasing new equipment and software programs for modelling of infectious diseases:

- Inverted wide-field fluorescence microscope with FRET module;
- Luminex 200 Multiplexing Instrument with Milliplex Analyst 5.1 software (Millipore);
- BD FACSAria™ IIIu Cell Sorter with Yellow-Green (561 nm) Laser Set Software programs;
- MathLab&Simulink software and geneXplain platform.



Project coordinator

Assoc. Prof. **Modra Murovska**,
director of A.Kirhenšteins Institute of Microbiology and Virology