

Social Challenges to National Security

The State and the Nation: Heritage and Identity

Energy of the Future

Chronic Non-Infectious Diseases

Ecosystems of Lithuania: Climate Change and impact on a Person

Healthy and Safe Food

Industrial Biotechnology Development Programme

High-tech Development Programme

Eurostars

Social Challenges to National Security

Project title	Duration	Project leader / Faculty
Procedural Justice in Lithuanian Criminal, Civil, and Administrative Law	2010–2011	Prof. G. Valickas (Faculty of Philosophy)
Public Trust in the Criminal Justice Institutions in Lithuania and its Determinants	2010–2012	Prof. A. Dobryninas (Faculty of Philosophy)
Personality, Health and Socio-Demographic Dimensions of Psychological Well-Being of Lithuanian Population	2010-2013	Prof. A. Bagdonas (Faculty of Philosophy)
Social Work - Between Dependency and Autonomy	2012-2013	Dr. B. Švedaitė-Sakalauskė (Faculty of Philosophy)
Benefits in cash and in kind: dilemmas of creating optimal model of social assistance	2012-2013	Dr. L. Žalimienė (Faculty of Philosophy)
Organizational Citizenship Behaviour in the Context of Work Motivation in Lithuanian Organizations	2012-2013	Dr. D. Bagdžiūnienė (Faculty of Philosophy)
Psychosocial factors of psychological well-being in the context of psychotraumatology	2012-2013	Dr. E. Kazlauskas (Faculty of Philosophy)
Homicide in Lithuania: Criminological Research	2012-2013	(Faculty of Philosophy)
Benefits in cash and in kind: dilemmas of creating optimal model of social assistance	2012-2013	Dr. L. Žalimienė (Faculty of Philosophy)
Challenges of implementation of mental health policy in Lithuania	2012-2013	Prof. D. Pūras (Faculty of Philosophy)
Social, economical and legal means reaching the stability and development of families	2012-2013	Dr. V. Mizaras (Faculty of Law)
The perspective of multilateral criminal asset confiscation that crimes would not be worth it	2012	Dr. R. Šimaitis (Faculty of Law)

The State and the Nation: Heritage and Identity

Project title	Duration	Project leader / Faculty
Development of the National Network of Infrastructure of Lituianistic Scientific Research and Heritage: the Design Phase.	2010-2011	Doc. R. Laužikas (Faculty of Communication)
Lithuanian Egodocumental Heritage	2010-2013	Prof. A. Pacevičius (Faculty of Communication)
Tradition, Image and Modern Identity of the Grand Duchy of Lithuania	2010–2013	Prof. A. Bumblauskas (Faculty of History)
Remembrance of Soviet Times in Life Stories: Relationship between Public and Private Discourses		Prof. D. Leinartė (Centre for Gender Studies), Dr. L. Žilinskienė (Faculty of Philosophy).

Project title	Duration	Project leader / Faculty
History Policy as a Factor of Nation and State Building	2010–2012	Prof. R. Lopata (Institute of International Relations and Political Science)
Gervėčiai: history and national identity	2010-2012	Dr. S. Matulevičienė (Faculty of Philology)
Religion and Culture: the Challenges of the Contemporary World to the Identity	2010–2013	Prof. R. Šerpytė (Centre for Religious Studies and Research)
Identity and Alterity	2010	Dr. N. Čepulis (Centre for Religious Studies and Research)
J. Karłowicz as a propagator of the scientific and cultural life of the late XIX and early XX century	2012-2013	Dr. M. Davlevič (Faculty of Philology)
The politics of history as a source of geopolitical and geocultural identity	2012-2014	Dr. R. Lopata (Institute of International Relations and Political Science)
Emigration and Family: Challenges, Family Resources, Ways of Coping with Difficulties	2012-2014	Dr. I. Juozeliūnienė (Faculty of Philosophy)
Identity of Early Baltic society according to investigations of archaeological sites in Lithuania	2012-2014	Dr. A. Merkevičius (Faculty of History)

Energy of the Future

Project title	Duration	Project leader / Faculty
Micro and Nanostructures for Micro Solid Oxide Fuel Cells (MIKROKOKE)	2010-2011	Prof. A. Kareiva (Faculty of Chemistry and Geosciences)
Preparation of Graphene Coatings with Diverse Thermal Resistance Properties Using Laser Treatment (LAGO)	2010–2011	Prof. J. Barkauskas (Faculty of Chemistry and Geosciences)
Preparation and Investigation of Superionic Ceramics with Fast Oxygen Vacancy Transport for Solid Oxide Fuel Cells	2010–2011	Prof. A. F. Orliukas (Faculty of Physics)
Electrochemical Deposition of CZTSe Layer and Structural and Optoelectronic Characterization.	2010-2011	Prof. K. Arlauskas (Faculty of the Physics)
Development of New Topic Non-Organic Materials Technologies for Photovoltaics (INGANCIS)	2010–2011	Dr. T. Malinauskas (Institute of Applied Research)
Energy Saving and Psychophysically Acceptable Solid-State Street Lighting	2010–2011	Prof. A. Žukauskas (Institute of Applied Research)
Mesopic solid-state light sources	2012-2014	Prof. A. Žukauskas (Institute of Applied Sciences)
Technological processes of membranes production for micro-solid oxide fuel cells	2012-2014	Hab. dr. A. Kareiva (Faculty of Chemistry and Geosciences)

Chronic Non-Infectious Diseases

Project title	Duration	Project leader / Faculty
Imaging of Cardiac Adrenergic Innervation to Assess Risk of Cardiac Insufficiency and Sudden Death	2010-2011	Prof. A. E. Tamošiūnas (Faculty of Medicine).
Evaluation of Pathogenic Copy Number Variation in Etiopathology of Mental Retardation (PROGENET)	2010–2011	Doc. J. Kasnauskienė (Faculty of Medicine)

Project title	Duration	Project leader / Faculty
Genomic Diversity of the Lithuanian Population and the Possibility for the Personalized Treatment of Coronary Heart Disease (LIGENKOR)	2010–2011	Prof. Z. A. Kučinskienė (Faculty of Medicine)
Food Allergy in Lithuanian Birth Cohort. Prof. R. Dubakienė (Faculty of Medicine)	2009–2012 First part	dr. A. Žvirblienė (Institute of Biotechnology)
Food Allergy in Lithuanian Birth Cohort	2012-2014 Second part	Prof. R. Dubakienė (Faculty of Medicine)
Mutation, in Monoamine Oxidase B Gene, Which is Associated with Parkinson's Disease, Influence for Pre-Mrna Splicing	2010–2011	Dr. A. Kanopka (Institute of Biotechnology)
Carbonic Anhydrases as Cancer Cell Markers	2010–2011	Dr. D. Matulis (Institute of Biotechnology)
Diagnostic and Prognostic Markers in Leukaemia	2010–2011	Dr. R. Navakauskienė (Institute of Biochemistry)
Prognostic Markers of Stress Kinase JNK Action for Targeted Therapy	2010–2011	Dr. A. Kalvelyte (Institute of Biochemistry)
Colorectal cancer: study of mortality, disability and quality of life in Lithuania	2011-2013	Prof. K. Strupas (Faculty of Medicine)
Multiplexed molecular biomarker study for leukemia	2012-2014	Dr. R. Navakauskienė (Institute of Biochemistry)
Development of complex biomarkers for the evaluation of clinical significance of prostate cancer	2012-2014	J. R. Lazutka (Life Sciences Center)
Splicing factors and miRNA as diagnostic biomarkers for cancer of digestive system	2012-2014	Dr. A. Kanopka (Institute of Biotechnology)
Determination of the diagnostic potential of Carbonic anhydrase hCA XII, cancer cell marker	2012-2014	Dr. D. Matulis (Institute of Biotechnology)
Molecular mechanisms of the pathogenesis of Alzheimer's disease	2012	Dr. G. Valinčius (Institute of Biochemistry)

Ecosystems of Lithuania: Climate Change and impact on a Person

Project title	Duration	Project leader / Faculty
Variation of life cycles and genetic structure of alien for Lithuania aphid species (Hemiptera, Sternorrhyncha: Aphididae)	2010-2011	Prof. R. Rakauskas (Life Sciences Center)
Insects and entomopathogens: interactions between alien and local species, new diagnostic tools	2010-2011	Prof. V. Būda (Life Sciences Center)
Palaeogeographical Changes in Lithuania throughout the Postglacial Period under the Baltic Sea and Land Interaction	2010–2011	Prof. P. Šinkūnas (Faculty of Chemistry and Geosciences)
Genetic Diversity of Exotic Herbaceous Plant Species and Factors Influencing Their Spreading in Lithuania (№ LEK–10016)	2010–2011	Prof. D. Žvingila (Life Sciences Center)
Native Tree Species and the Vulnerability of Their Populations, Habitat Change and the Forecast of Areal Changes Due to Climate Change	2010-2011	Prof. E. Lekevičius (Faculty of Natural Sciences)

Project title	Duration	Project leader / Faculty
Local plum aphid (Hemiptera: Aphididae) species consortium: impact of invasive species	2012-2014	Prof. R. Rakauskas (Life Sciences Center)
The study of genomic changes and factors influencing the invasiveness of alien herbal plants	2012-2014	Dr. D. Žvingila (Life Sciences Center)

Healthy and Safe Food

Project title	Duration	Project leader / Faculty
Development of novel prebiotic oligosaccharides using thermophilic enzymes.	2011-2013	dr. N. Kuisienė (Life Sciences Center), prof. R. Meškys (Institute of Biochemistry)
Change of Bioactive Compounds in Underutilised Berry Species Depending on Genotype and Environment	2011-2014	Dr. G. Slapšytė (Life Sciences Center)
Interspecific hybrids of orchard plant - a novel source of anthocyanins	2011-2014	Dr. R. Ražanskas (Institute of Biotechnology)
The management of microgreens nutritional quality in light culture system	2011-2014	Dr. A. Novičkovas (Institute of Applied Research)
Detection of bacterial pathogens in the food chain by molecular techniques	2012-2015	Dr. E. Sužiedėlienė (Life Sciences Center)
Bee products enriched with plant components, the composition and properties	2012-2015	Dr. B. Kurtinaitienė (Institute of Biochemistry)
Innovative technologies to increase microbial safety and quality of raspberries and strawberries	2012-2015	Ž. Lukšienė (Institute of Applied Sciences)
Expression analysis of anthocyanin biosynthesis genes in horticultural plants	2012-2015	Dr. V. Kazanavičiūtė (Institute of Biotechnology)
Investigation of bioactive substances in food matrices and their influence on human health	2012-2015	Prof. A. Kaminskas (Faculty of Medicine)

Industrial Biotechnology Development Programme

Project title	Duration	Project leader / Faculty
Development of Bioelectrocatalysis for Synthesis and Analysis (BIOSA)	2008–2010	Prof. J. Barkauskas (Faculty of Chemistry), Dr. J. Razumienė (Institute of Biochemistry), prof. F. Ivanauskas (Faculty of Mathematics and Informatics)
Design and evaluation of ageing-resistant biodegradable esters with controllable flammability	2008-2010	Dr. B. Surinėnaitė (Institute of Biotechnology), Dr. V. Bendikienė (Life Sciences Center)
Screening of new biocatalyst by analysis of small genomes and by using metagenomic approaches" (acronym: MetaGENAS)	2008-2010	Prof. D. Čitavičius (Faculty of Natural Sciences), dr. R. Meškys (Institute of Biochemistry)
Development of Anti-Cytolysin Monoclonal Antibodies Designed to Neutralize Toxic Cytolysins of the Pathogenic Bacteria	2008–2010	Dr. E. Mištiniene (Institute of Biotechnology)
Development of Diagnostic Tools for Merkel Cell Polyoma Virus	2008–2010	Dr. R. Slibinskas (Institute of Biotechnology)
Development of completely novel approach for the cosmetics. (COSMETIZYME)	2011-2013	Prof. Čitavičius (Faculty of Natural Sciences)

Project title	Duration	Project leader / Faculty
Development of innovative biotechnology for oil base lubricant production, BIOLUBRICANT	2011–2013	Dr. I. Matijošytė (Institute of Biotechnology)
The development of innovative biocatalytic stain remover (FASTREMOVE)	2012	Dr. I. Matijošytė (Institute of Biotechnology)
Novel antifungal lactic acid bacteria bioproduct for health of cereal grains in organic farming (BIOEKOTECH)	2012	Dr. L. Kalėdienė (Life Sciences Center)

High-tech Development Programme

Project title	Duration	Project leader / Faculty
The Design and Investigation of Suspensions for Tribosystems Containing Magnetic Particles	2010	Doc. H. Cesiulis (Faculty of Chemistry and Geosciences)
Implementation of the Information Infrastructure for Mobile and Wireless Services	2010	L. Bukauskas (Faculty of Mathematics and Informatics)
Implementation of the Information Infrastructure for Mobile and Wireless Services	2011	L. Bukauskas (Faculty of Mathematics and Informatics)
Four-wave Optical Parametric Amplifiers Based on Transparent Wide-aperture Isotropic Media (FORTAS)	2008–2010	Prof. A. Dubietis (Faculty of Physics)
Conical Waves Technologies (ConTeX)	2008–2010	Dr. A. Matijošius (Faculty of Physics)
High Average Power Multi-beam Pumped Femtosecond Optical Parametric Amplifier (INTEGRA)	2009–2011	Prof. V. Smilgevičius (Faculty of Physics)
Multilaser Beam Technology for Surface and Thin Film Analysis (MULATAS 2)	2008–2010	Dr. R. Tomašiūnas (Institute of Applied Research)
Development of Growth Technologies for GaBiAs Epilayers and Nanostructures for Fabrication of Optoelectronic Devices	2009–2010	Prof. K. Jarašiūnas (Institute of Applied Research)
Detection of Pathogenic b-Amyloid Oligomers for Diagnostics in Alzheimer's Disease	2008–2010	Dr. G. Valinčius (Institute of Biochemistry), dr. A. Žvirblienė (Institute of Biotechnology)
Development of Yeast Expression System by Using Proteomic Approach and Gene Engineering	2008–2010	Prof. K. Sasnauskas (Institute of Biotechnology)
Development of New Tools for Improved Laboratory Diagnosis of Human Papilloma virus (HPV) Infection and HPV-Related Cancer	2008–2010 (First part)	Dr. A. Žvirblienė (Institute of Biotechnology)
Development of New Tools for Improved Laboratory Diagnosis of Human Papiloma virus (HVP) Infection and HPV-Related Cancer	2011(Second part)	Dr. A. Žvirblienė (Institute of Biotechnology)
Methods and Software for Business Processes Modelling and Visualization	2011-2013	Prof. A. Žilinskas (Institute of Mathematics and Informatic)
Essential Improvement in Group of Most Important Laser Elements by Enhancement of Optical Resistance and Optimization of Polishing and Metal Oxide Mixture Deposition Technologies (EIGULYS)	2011–2013	Dr. A. Melninkaitis (Faculty of Physics)

Project title	Duration	Project leader / Faculty
Development and Implementation of Carrier-Envelope Phase Control in OPCPA Systems (PHASECONTROL)	2011–2013	Dr. A. Varanavičius (Faculty of Physics)
Organic Optoelectronic Materials Targeted For Large Scale Synthesis (Org-Lascale)	2011–2013	Prof. S. Juršėnas (Institute of Applied Research)
Optimization of Electrical, Optical and Thermal Characteristics of Solid-State Street Luminaire. (TERRALED)	2011–2013	Dr. P. Vitta (Institute of Applied Research)
Speech-to-text analysis and translation of medical diagnostics	2011-2013	Prof. A. Juozapavičius (Faculty of Mathematics and Informatics)
Creation of physical access control service system	2011-2013	Dr. V. Jonkus (Faculty of Physics)
Development of microfluidics technology for monodisperse vesicles production and improved drug delivery	2012	Dr. L. Mažutis (Institute of Biotechnology)
Development and research of the synchronously pumped femtosecond optical parametric oscillator" (MEGAOPO)	2012	Dr. R. Grigonis (Faculty of Physics)
Bioactive structured scaffolds for molecular tissue engineering	2012	Prof. R. Gadonas (Faculty of Physics)

[Eurostars](#)

Project title	Duration	Project leader / Faculty
Production Effectiveness Navigator, PEN (No. E!6232)	2011–2014	Prof. G. Dzemyda (Institute of Mathematics and Informatics)