



THE PROJECTS BEING IMPLEMENTED BY THE PROGRAMMES SPONSORED BY THE RESEARCH COUNCIL OF LITHUANIA AT VILNIUS UNIVERSITY

Period of 2008–2015

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 (<i>Faculty of Philosophy</i>)	
Personality, Health and Socio-Demographic Dimensions of Psychological Well-Being of Lithuanian Population	2010–2013	Prof. A. Bagdonas (<i>Faculty of Philosophy</i>)	
Social Work – Between Dependency and Autonomy	2012–2013	Dr. B. Švedaitė-Sakalauskė (<i>Faculty of Philosophy</i>)	
Benefits in Cash and in Kind: Dilemas of Creating Optimal Model of Social Assistance	2012–2013	Dr. L. Žalimienė (<i>Faculty of Philosophy</i>)	
Organizational Citizenship Behaviour in the Context of Work Motivation in Lithuanian Organizations	2012–2013	Dr. D. Bagdžiūnienė (<i>Faculty of Philosophy</i>)	
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	
Challenges of Implementation of Mental Health Policy in Lithuania	2012–2013	Prof. D. Pūras (<i>Faculty of Philosophy</i>)	
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 (<i>Faculty of Law</i>)	

THE STATE AND THE NATION: HERITAGE AND IDENTITY

Project Title	Duration	Project Leader (Faculty)
Development of the National Network of Infrastructure of Lituanistic Scientific	2010–2011	Assoc. Prof. R. Laužikas
Research and Heritage: the Design Phase	2010-2011	(Faculty of Communication)
Lithuanian Egodocumental Heritage	2010–2013	Prof. A. Pacevičius
Lindanan Egodobamonal Honago	2010 2010	(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		Prof. D. Leinartė (<i>Centre for Gender Studies</i>)
Private Discourses		Dr. L. Žilinskienė (Faculty of Philosophy)
	0040 0040	Prof. R. Lopata
History Policy as a Factor of Nation and State Building	2010–2012	(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. Šerpytytė
		(Centre for Religious Studies and Research) Dr. N. Čepulis
Identity and Alterity	2010	(Centre for Religious Studies and Research)
J. Karlowicz as a Propagator of the Scientific and Cultural Life of the Late XIX and		Dr. M. Davlevič
Early XX Century	2012–2013	(Faculty of Philology)
Lany XX Contary		Prof. R. Lopata
The Politics of History as a Source of Geopolitical and Geocultural Identity	2012–2014	(Institute of International Relations and Political
		Science)
Emigration and Family: Challenges, Family Resources, Ways of Coping with		Dr. I. Juozeliūnienė
Difficulties	2012–2014	(Faculty of Philosophy)
Identity of Early Baltic Society According to Investigations of Archaelogical Sites in	0040 0044	Dr. A. Merkevičius
Lithuania	2012–2014	(Faculty of History)
ENERGY OF THE FUTU	JRE	
Project Title	Duration	Project Leader (Faculty)
Micro and Nanostructures for Micro Solid Oide Fuel Cells (MIKROKOKE)	2010–2011	Prof. A. Kareiva
	2010-2011	(Faculty of Chemistry)

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Preparation of Graphene Coatings with Diverse Thermal Resistance Properties Using	2010–2011	Prof. J. Barkauskas
Laser Treatment (LAGO)	2010-2011	(Faculty of Chemistry)
Preparation and Investigation of Superionic Ceramics with Fast Oxygen Vacancy	2010–2011	Prof. A. F. Orliukas
Transport for Solid Oxide Fuel Cells	2010-2011	(Faculty of Physics)
Electrochemical Deposition of CZTSe Layer and Structural and Optoelectronical	2010–2011	Prof. K. Arlauskas
Characterization	2010-2011	(Faculty of Physics)
Development of New Topic Non-Organic Materials Technologies for Photovoltaics	2010–2011	Dr. T. Malinauskas
(INGANCIS)	2010-2011	(Institute of Applied Research)
Energy Solving and Doughaphysically Assentable Solid State Street Lighting	2010–2011	Prof. A. Žukauskas
Energy Saving and Psychophysically Acceptable Solid-State Street Lighting		(Institute of Applied Research)
Magania Salid State Light Sources	2012–2014	Prof. A. Žukauskas
Mesopic Solid-State Light Sources		(Institute of Applied Research)
Technological Processes of Membrance Production for Micro Solid Ovide Fuel Calle	2012–2014	Prof. A. Kareiva
Technological Processes of Membranes Production for Micro-Solid Oxide Fuel Cells		(Faculty of Chemistry)

CHRONIC NON-INFECTIUOS 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 (<i>Faculty of Medicine</i>)
Evaluation of Pathogenic Copy Number Variation in Etiopathology of Mental Retardation (PROGENET)	2010–2011	Assoc. Prof. J. Kasnauskienė (<i>Faculty of Medicine</i>)
Genomic Diversity of the Lithuanian Population and the Possibility for the Personalized Treatment of Coronary Heart Disease (LIGENKOR)	2010–2011	Prof. Z. A. Kučinskienė (<i>Faculty of Medicine</i>)
Food Allergy in Lithuanian Birth Cohort (first part)	2009–2012	Dr. A. Žvirblienė (Institute of Biotechnology)
Food Allergy in Lithuanian Birth Cohort (second part)	2012–2014	Prof. R. Dubakienė (<i>Faculty of Medicine</i>)
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. Kalvelytė (Institute of Biochemistry)
Colorectal Cancer: Study of Mortality, Disability and Quality of Life in Lithuania	2011–2013	Prof. K. Strupas
		(<i>Faculty of Medicine</i>) Dr. R. Navakauskienė
Multiplexed Molecular Biomarker Study for Leukemia	2012–2014	(Institute of Biochemistry)
Development of Complex Biomarkers for the Evaluation of Clinical Significance of Prostate Cancer	2012–2014	Prof. J. R. Lazutka (<i>Faculty of Natural Sciences</i>)
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 (Faculty of Natural Sciences)
Insects and Entomopathogens: Interactions Between Alien and Local Species, New Diagnostic Tools	2010–2011	Prof. V. Būda (<i>Faculty of Natural Sciences</i>)
Palaeogeographical Changes in Lithuania throughout the Postglacial Period under the Baltic Sea and Land Interaction	2010–2011	Prof. P. Šinkūnas (<i>Faculty of Natural Sciences</i>)
Genetic Diversity of Exotic Herbaceous Plant Species and Factors Influencing Their Spreading in Lithuania (No. LEK–10016)	2010–2011	Prof. D. Žvingila (<i>Faculty of Natural Sciences</i>)
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 (<i>Faculty of Natural Sciences</i>)
Local Plum Aphid (Hemiptera: Aphididae) Species Consortium: Impact of Invasive Species	2012–2014	Prof. R. Rakauskas (<i>Faculty of Natural Sciences</i>)
HEALTHY AND SAFE FOOD		
Project Title	Duration	Project Leader (Faculty)
Development of Novel Prebiotifc Oligosaccharides Using Thermophilic Enzymes	2011–2013	Dr. N. Kuisienė (<i>Faculty of Natural Sciences</i>) Prof. R. Meškys (<i>Institute of Biochemistry</i>)

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Change of Bioactive Compounds in Underutilised Berry Species Depending on Genotype and Environment	2011–2014	Dr. G. Slapšytė (Faculty of Natural Sciences)
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 (Faculty of Natural Sciences)
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 (<i>Faculty of Medicine</i>)

INDUSTRIAL BIOTECHNOLOGY DEVELOPMENT PROGRAMME

Project Title	Duration	Project Leader (Faculty)
Development of Bioelectrocatalysis for Synthesis and Analysis (BIOSA)	2008–2010	Prof. J. Barkauskas (<i>Faculty of Chemistry</i>) Dr. J. Razumienė (<i>Institute of Biochemistry</i>) Prof. F. Ivanauskas (<i>Faculty of Mathematics and Informatics</i>)
Design and Evaluation of Ageing-Resistant Biodegradable Esters with Controllable Flammability	2008–2010	Dr. B. Surinėnaitė (<i>Institute of Biotechnology</i>) Dr. V. Bendikienė (<i>Faculty of Natural Sciences</i>)
Screening of New Biocatalyst by Analysis of Small Genomes and by Using Metagenomic Approaches (MetaGENAS)	2008–2010	Prof. D. Čitavičius (<i>Faculty of Natural Sciences</i>) dr. R. Meškys (<i>Institute of Biochemistry</i>)
Development of Anti-Cytolysin Monoclonal Antibodies Designed to Neutralize Toxic Cytolysins of the Pathogenic Bacteria	2008–2010	Dr. E. Mištinienė (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. D. Čitavičius (<i>Faculty of Natural Sciences</i>)
Development of Innovative Biotechnology for Oil Base Lubricant Production (BIOLUBRICANT)	2011–2013	Dr. I. Matijošytė (Institute of Biotechnology)

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The Development of Innovative Biocatalytic Stain Remover (FASTREMOVE)	2012	(Institute of Biotechnology)
Novel Antifungal Lactic Acid Bacteria Bioproduct for Health of Cereal Grains in Organic	2012	Dr. L. Kalėdienė
Farming (BIOEKOTECH)	2012	(Faculty of Natural Science)
HIGH-TECH DEVELOPMENT PRO	OGRAMME	
Project Title	Duration	Project Leader (Faculty)
The Design and Investigation of Suspensions for Tribosystems Containing Magnetic Particles	2010	Assoc. Prof. H. Cesiulis (<i>Faculty of Chemistry</i>)
Implementation of the Information Infrastructure for Mobile and Wireless Services	2010	Dr. L. Bukauskas (<i>Faculty of Mathematics and Informatics</i>)
Implementation of the Information Infrastructure for Mobile and Wireless Services	2011	Dr. L. Bukauskas (<i>Faculty of Mathematics and Informatics</i>)
Four-wave Optical Parametric Amplifiers Based on Transparent Wide-Aperture Isotropic Media (FORTAS)	2008–2010	Prof. A. Dubietis (<i>Faculty of Physics</i>)
Conical Waves Technologies (ConTeX)	2008–2010	Dr. A. Matijošius (<i>Faculty of Physics</i>)
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 (first part)	2008–2010	Dr. A. Žvirblienė (Institute of Biotechnology)
Development of New Tools for Improved Laboratory Diagnosis of Human Papilloma Virus (HPV) Infection and HPV-Related Cancer (second part)	2011	Dr. A. Žvirblienė (Institute of Biotechnology)

Methods and Software for Business Processes Modelling and Visualization	2011–2013	Prof. A. Žilinskas (Institute of Mathematics and Informatics)
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)
Development and Implementation of Carier- 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 Oscilator (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)