

Tbilisi State Medical University 2017
Current and Accomplished Scientific-Research Projects

Faculty of Medicine

Department of Allergology and Clinical Immunology

Head – Professor A. Telia

Nº	Project title	Funding organization	Project supervisor	Project participants
1	“12-months’, randomized double blind, placebo-controlled study of efficacy and safety of Fluticasone propionate multidose dry powder inhaler compared with Fluticasone propionate/Salmeterol multidose dry powder inhaler in patients from 4 to 11 years with persistent asthma TEVA FSS-AS-30003 2017 – 2019 წ.წ.	Teva Branded Pharmaceutical Products R&D Inc: Pennsylvania, USA		A. Telia- principal investigator, K.Machavariani- investigator and coordinator, M. Shavgulidze- investigator
2	2-phase multicentre, randomized, double-blind, placebo- controlled study of Vapendavir in Asthmatic adults with Symptomatic Human Rhinovirus Infection. BTA 798-203 2015 – 2017	Biota Pharmaceuticals, Inc. USA.		A. Telia- principal investigator, K.Machavariani- investigator and coordinator, M. Shavgulidze- investigator

Department of Child Neurology

Head - Professor N. Geladze

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Clinical study: MRZ60201_3091_1 Prolonged, open-label, prospective, multicentre, randomized double blind, placebo-controlled, parallel group study of NT201 efficacy and safety in children and adolescents with chronic sialorrhea associated with neurological disorders or mental disabilities. Appendix 2.15.4	pharmaceutical company MERZ protocol #MRZ60201_3091 Germany	Professor N. Geladze	Associate Professor S.Bakhtadze, Associate Professor N.Khachapuridze N. Kapanadze Doctor of Medicine

2	International multicentre randomized, double blind, placebo-controlled, parallel group study and extended observation (EP0034) of efficacy and safety of Lacosamide as adjunctive therapy in subjects 1 month <4 years with partial epilepsy (SP 0967)	Pharmaceutical Company UCB. USB Protocol SP0967 Study	Associate Professor S.Bakhtadze	Professor N. Geladze, Associate Professor N.Khachapuridze
3	Effects of prenatal anticonvulsants on neurological development in children under 6 years	Shota Rustaveli National Science Foundation	Associate Professor N.Khachapuridze	N. Gogatishvili
4	Clinical and psychological characteristics of somatoform and anxiety disorders in children and adolescents	Self-funding	Professor N. Geladze	M. Khundadze
5	Group of children under two years at risk of neurodevelopmental disorders	Self-funding	Associate Professor N.Khachapuridze	N. Tskimanauri

Department of Child Surgery

Head - Professor M. Buadze

	Project title	Funding organization	Project supervisor	Project participants
1	Clinical Trial Protocol: DUR001-306 Phase 3, multicentre, open-label, randomized, comparator controlled trial of safety and efficacy of Dalbavancin versus Active Comparator in pediatric subjects with acute bacterial skin infections“	Durata Therapeutics International B.V(an Allergan Affiliate)	Professor M. Buadze	Department of surgery, Givi Zhvania Pediatric Clinic

Department of Ocular Diseases

Head - Professor M. Dvali

	Project title	Funding organization	Project supervisor	Project participants
1	Comperative analysis of hydrophobic and hydrophilic acrylic lens usage in cataract surgery	Self-funding	Funding	O. Tsertsvadze

Department of Immunology
Head - Professor T. Chikovani

	Project title	Funding organization	Project supervisor	Project participants
1	Role of regulatory T cells and cytokines in the pathogenesis of rheumatoid arthritis	Ministry of Education and Science of Georgia	Associate Professor N. Kikodze	T. Chikovani M.Iobadze I. Pantsulaia, N. Janikashvili N. Kukuladze R. Aprasidze M. Lemonjava N. Chighvinidze N.Tsiskarishvili
2	Study of age related inflammatory markers in Georgian population	Ministry of Education and Science of Georgia	Associate Professor I. Pantsulaia, Associate Professor N. Karanadze, Professor T.Chikovani-consultant	Ts. Atamashvili T. Elisashvili M. Jgharkava
3	Effects of radiofrequency thermal ablation on adaptive immune response in patients with hepatic cancer.	Shota Rustaveli National Science Foundation	Professor T.Chikovani, Associate Professor N. Janikashvili	M. Mizandari N. Kikodze I. Pantsulaia K. Mazmishvili N. Paksashvili M.Iobadze N. Nanava Kh.Rekhviashvili M. Lemonjava N. Chighvinadze
4	Effects of radiofrequency ablation on immune response of patients with inoperable pancreatic cancer	Shota Rustaveli National Science Foundation	Professor T.Chikovani, Professor M. Mizandari	N. Toria N. Kikodze N. Janikashvili I. Pantsulaia M.Iobadze N. Chighvinadze M. Lemonjava
5	Plasticity of splenic T lymphocytes in patients with autoimmune hematologic disorders	Shota Rustaveli National Science Foundation	Professor I. Kvachadze, Associate Professor N. Janikashvili	S. Metreveli

6	Plasticity of splenic T lymphocytes in patients with B cell lymphoma	Shota Rustaveli National Science Foundation	Associate Professor N. Janikashvili, Professor G. Giorgobiani	N. Nanava
7	Radiofrequency ablation and hepatic resection- two strategic approaches to hepatic cancer treatment and their comparative analysis	Shota Rustaveli National Science Foundation	Professor M. Mizandari, Professor T.Chikovani	N. Paksashvili

Department of Clinical Skills and Multidisciplinary Simulation
Head - Professor I. Manjavidze

N ^o	Project title	Funding organization	Project supervisor	Project participants
1	Clinical Cases, film on communication skills (8 cases of doctor-patient communication). Joint project of Future Leaders Exchange programme (FLEX) and TSMU	USA Embassy in Georgia	Professor I. Manjavidze	Associate Professor k. Nozadze, Assistant Professor D. Chitaishvili, TSMU Faculty of Dentistry Department of Odontology , TSMU Theatrical Board Higia
2	(ERASMUS+) 22 months' international (Turkey, Georgia and 3 international partners) educational project- Training for professional enhancement of emergency and rescue teams in industrial poisoning. Project aims: creating response algorithm for the cases of industrial poisoning and learning by simulation with mannequins and simulators	ERASMUS +	Health Directorate of Ankara- coordinator	TSMU Department of Clinical Skills and Multidisciplinary Simulation, Department of Clinical Toxicology, National Center for Disease Control, 4 Turkish partner organizations

Department of Medical History and Bioethics
Head – Professor R. Shengelia

Nº	Project title	Funding organization	Project supervisor	Project participants
1	International interdisciplinary study of the Shiraki Plain; paleographical Changes and Their Impact on Humans	Shota Rustaveli National Science Foundation	Professor R. Shengelia-coordinator	Iliani, TSU, TSMU Professorate, Foreign specialists
2	Randomized social study of interaction of religious conviction and mental health in Tbilisi population	Self-funding	Professor R. Shengelia	K. Giorgadze
3	Development and implementation of untidoping ethical education programme in young sportsmen	Self-funding	Professor R. Shengelia	T. Ukleba

Department of Microbiology
Head - Professor D. Chikviladze

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Microbiological monitoring of nosocomial purulent inflammatory infections in neonates and postpartum women	Self-funding, Imedi Clinic Ltd.	Professor D. Chikviladze	D. Kobeshavidze

Department of Molecular and Medical Genetics
Head – Professor E. Abzianidze

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Genetic and epigenetic aspects of inflammation during pain	State budget of georgia	Professor E. Abzianidze	E.Kvaratskhelia T. Tkemaladze Ts.Gigineishvili B. Partskhaladze K. Kankava T. Gorgiladze

2	Mechanisms of chronization of inflammatory process in cystic fibrosis	State budget of georgia	Associate Professor E.Kvaratskhelia	E. Maisuradze, M. Gagua, M. Kamkamidze
3	Role of serotonergic system in regulation of pain sensation	Self-funding	Professor E. Abzianidze	T. Gorgiladze
4	Epigenetic aspects of breast cancer in Georgian female population	Shota Rustaveli National Science Foundation N PhDF2016_85	Professor E. Abzianidze, Associate Professor E.Kvaratskhelia	K. Kankava
5	Methylene-tetra-hydro-folate reductase (<i>MTHFR</i>) gene polymorphism and epigenetic changes in several forms of hypothyroidism	Self-funding	Professor E. Abzianidze, Associate Professor E.Kvaratskhelia	T.Kvaratskhelia
6	Molecular-genetic aspects of hereditary thrombophilia and their role in developing gestational pathology in Georgian population	Shota Rustaveli National Science Foundation (N DO/166/7-140/14)	Associate Professor N. Pirtskhelani	K. Kartvelishvili

Department of Neonatology
Head - Professor I. Pavlenishvili

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Placental umbilical artery 3D matrix and its use in surgery of biliary atresia	Foreign grant	Professor Z. Kakabadze Professor I.Pavlenishvili	K.Chakhunashvili

Department of Propedeutics of Neural Diseases and Topical Diagnosis**Head - Professor M. Beridze**

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Clinical study: tranexamic acid for intracerebral hemorrhage (TICH-2 Trial)	University of Nottingham, National Institute for HealthResearch (NIHR) UK	Professor Nikola Sprigg (UK)	Professor M. Beridze-principal investigator, Investigators- N.Khizanishvili, T. Losaberidze
2	Clinical study: triple antiaggregation to reduce disability after ischemic stroke (TARDIS Trial)	University of Nottingham, National Institute for HealthResearch (NIHR) UK	Professor Philip Bath (UK)	Professor M. Beridze-principal investigator, Investigators- N.Khizanishvili E.Devidze, T. Losaberidze

Department of Normal Anatomy**Head - Professor R. Khetsuriani**

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Age-related characteristics of erythrocyte life-span, their morpho-functional variations and apoptosis in a practically healthy human	Self-funding	Academician R. Khetsuriani	N. Pruidze

Department of Oncology**Head - Professor R. Ghvamichava**

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Study of genetic polymorphism of oncological diseases and primary arterial hypertension in Caucasian Region	BC Cancer Agency, European Society of Human Genetics	Professor G. Simonia Associate Professor A. Tavartkiladze	Employees of Institute for personalized Medicine

2	Study of bioactivation mechanisms of cell immunity with Caucasian phyto hemagglutinins	JSMO	Professor G. Simonia, Associate Professor A. Tavartkiladze, R. Khutsishvili Doctor of Medicine	Employees of Institute for personalized Medicine
3	Study of chronobiological approaches and new biomarkers of biological rhythms in patients with complete desynchronization	SRBR	Professor G. Simonia, Associate Professor A. Tavartkiladze, R. Khutsishvili Doctor of Medicine	Employees of Institute for personalized Medicine
4	Digital dermatoscopy for optimization of clinical and epidemiologic monitoring and diagnosis of cancer	Self-funding	Professor R. Ghvamichava, Associate Professor Z. Kirtava	T. Shulaia

Department of Pediatrics №2
Head - Professor K. Paghava

№	Project title	Funding organization	Project supervisor	Project participants
1	Situational analysis and optimization of antibiotic therapy in clinical practice	Self-funding	Professor K. Paghava	I. Korinteli

Department of Urology
Head - Professor D. Kochiashvili

№	Project title	Funding organization	Project supervisor	Project participants
1	Infrared radiation based new medical device for early prostate cancer visualization and diagnosis (project number - AR/31/8-314/14)	Shota Rustaveli National Science Foundation	Professor B. Partsvania	Assistant Professor A. Khuskivadze
2	Imaging early prostate cancer	International Science and Technology Center ISTC	Assistant Professor A. Khuskivadze	Professor D. Kochiashvili Assistant Professor G. Kochiashvili

Department of Medical Pharmacology and Pharmacotherapy

Head –Professor N. Gongadze

Department of General Therapy

Head - Professor G. Sulaberidze

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Assessment of fiber deficient diet and effect of increasing fiber intake during constipation	Shota Rustaveli National Science Foundation	Professor G. Sulaberidze	Associate Professor M. Okujava
2	Role of antioxidants in regulation of hepatocyte cytolysis in experimental drug induced liver damage	Self-funding	Professor N. Antelava	M. Ghonghadze
3	Role of nitrogen oxide and dimethylsulfoxide in ischemic penumbra	Self-funding	Professor N. Gongadze	N. Jojua
4	Role of antioxidants and Pharmacological substances acting on cellular energy metabolism in the development of statin side effects	Self-funding	Professor N. Antelava Associate Professor N. Gorgaslidze	A. Karsanidze

Department of Surgery № 3

Head - Professor B. Mosidze

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Anaesthetic optimization in rectal surgery	Self-funding	Professor B. Mosidze	L.Aghdgomelashvili
2	Perfection of surgical treatment of nontraumatic spleen disease	Self-funding	Associate Professor Z.Demetrashvili	L. Tsamaladze

Department of Surgery № 2

Head - Professor G. Tomadze

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Use of cortical intramedullary autografts for unhealed fractures of long bones	Self-funding	Professor G. Tomadze	Sh. Bolkvadze

Department of Internal Medicine № 3**Head - Professor D. Gordeladze**

Nº	Project title	Funding organization	Project supervisor	Project participants
1	COST Project 1311 InterFaSol, Intergenerational family solidarity in Europe	COST Program (Cooperation in Science and Technology), European Commission	Professor Anna Maria Fontein, University of Porto, Portugal	EU project (76 participants from 29 countries)
2	Intracardial hemodinamics and hemorheological effects associated with flutter and other cardiac pathology	Self-funding	Associate Professor N. Narsia	M. Gotsadze

Department of Internal Medicine № 1**Head - Professor K. Chelidze**

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Immunocompetent cell activity and latent Chlamidial infection in anticipated preterm birth	Self-funding	P. Machavariani Doctor of Medicine, T. Saralidze Doctor of Medicine	Z. Gabelashvili
2	Preventive effect of brief immunosuppressive therapy with oral prednisone on instant restenoses after successful percutaneous coronary intervention	Self-funding	Professor K. Chelidze	Z. Leladze
3	Comperative study of secondary preventive effects of mono and dual antiaggregation regimens in nonobstructive Coronary artery disease and antiaggregant naïve patients with acute coronary disease without ST segment elevation	Self-funding	Professor K. Chelidze	S. Sikharulidze

Faculty of Dentistry

Department of Odontology

Head - Professor M. Mamaladze

Nº	Project title	Project supervisor	Project participants	Funding organization
1	Effects of different methods of root canal preparation and obturation on endodontic therapy	Associate Professor N. Chipashvili	O. Vadachkoria	Self-funding

Department of Periodontics and Oral Mucosal Diseases

Head - Professor M. Iverieli

Nº	Project title	Project supervisor	Project participants	Funding organization
1	Specific clinical and laboratory indicators of treatment efficacy of parodontitis	Professor M. Iverieli K. Metreveli Doctor of Medicine	T.Janjalashvili	Self-funding

Department of Oral and Maxillofacial Surgery

Head - Professor Z. Vadachkoria

Nº	Project title	Project supervisor	Project participants	Funding organization
1	Epidemiology of congenital cleft lip and palate in Georgia	Professor Z. Vadachkoria, Professor I.Mchedlishvili	S. Chincharadze	Self-funding

Faculty of Public Healthcare

Department of Public Healthcare, Management, Policy and Economy

Head- Professor L. Baramidze

Nº	Project title	Project supervisor	Project participants	Funding organization
1	Assessment of universal precautions of handling blood and other body fluids	Professor L. Baramidze	M.Kochlamazashvili	Self-funding
2	Unified insurance system in Georgia and its analysis	Professor L. Baramidze	L. Gumbaridze	Self-funding
3	New demographic strategy and demographic analysis	Associate Professor I. Zarnadze	J. Cheishvili	Self-funding
4	Human resources management in healthcare and new strategy	Associate Professor I. Zarnadze	L. Murusidze	Self-funding
5	Study and assessment of medical assistance to military servants and their families	Associate Professor I. Zarnadze	G. Liluashvili	Self-funding
6	Assessment of awareness of oral health in Georgian population	Associate Professor E.Mirvelashvili	A. Makalatia	Self-funding
7	Mediation analysis of posttraumatic stress and comorbidity in public healthcare management	Associate Professor Z. Sikharulidze	G. Sikharulidze	Self-funding

Department of Environmental Health and Occupational Medicine**Head - professor R. Kverenchkhiladze**

Nº	Project title	Project supervisor	Project participants	Funding organization
1	Assessment of atmospheric air in Tbilisi and optimization of monitoring system	Professor R.Kverenchkhiladze	S. Bezarashvili	Self-funding

Department of Epidemiology and Biostatistics**Head- Professor I. Mchedlishvili**

Nº	Project title	Project supervisor	Project participants	Funding organization
1	Assessment of knowledge, attitude and practice in women providing medical services in Georgia with regards to cervical cancer screening	M. Izoria	N. Mebonia Doctor of Medicine, T. Chachava	TEPHINET Training program network in epidemiology and public healthcare intervention
2	Assessment of knowledge, attitude and practice with regards to prevention and control of noncontagious diseases in primary and secondary healthcare systems in Tbilisi and Kakheti	N. Mebonia Doctor of Medicine	T. Chachava, R. Kvanchakhadze, D. Trapaidze, Z. Merabishvili	WHO
3	Optimization of preventive measures via monitoring postsurgical infection in long bone osteosynthesis and endoprosthetic surgery	Professor T. Nozadze, Professor I. Mchedlishvili	N. Avazashvili	Self-funding
4	Retrospective analysis of life expectancy and related prognostic factors in women with breast cancer in Georgia	Professor R. Ghvamichava, Assistant Professor N. Mebonia	N. Vashakidze	Self-funding

Department of Nutrition and Age -Related Medicine**Head - Professor Sh. Zarnadze**

Nº	Project title	Project supervisor	Project participants	Funding organization
1	Study and assessment of social protection and security system in Georgia	Sh. Zarnadze	N. Gokieli	Self-funding

Department of Hygiene and Medical Ecology**Head - Professor N. Vepkhvadze**

Nº	Project title	Project supervisor	Project participants	Funding organization
1	Epidemiologic characteristics and prevention of bloody diarrhea of various etiology and associated hemolytic-uremic syndrome in Georgia	Professor N.Vepkhvadze Professor T. Tsertsvadze	O.Chokoshvili	1.State epidemiological surveillance programme for diarrheal diseases; 2. Grant # G-2099, ISTC – molecular epidemiology of Enterotoxigenic E. Coli in Georgia.
2	Study of radioprotective effects of bioactive substances in animal research	Associate Professor M. Giorgobiani, Professor T. Sanikidze	I. Gvilava	Self-funding

Faculty of Pharmacy**Department of Pharmaceutical and Toxicological Chemistry****Head- Professor Tm Murtazashvili**

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Study of silt-peloids prevalent in several lakes of Adjara region for balneological purposes	Shota Rustaveli National Science Foundation	Professor A. Bakuridze, Professor T.Murtazashvili	T. Masiukovich
2	Chemical toxicological analysis of several second generation antipsychotics	Self-funding	Professor T.Murtazashvili, Associate Professor M. Jokhadze	K. Sivsivadze
3	Optimization of the methods of analysis of synthetic cannabinoids in biological fluids	Self-funding	Associate Professor T. Chikviladze, Associate Professor M. Jokhadze	M.Murtazashvili

Department of Pharmacognosy**Head- D. Chinchradze**

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Physico-chemical and pharmaco-technological evaluation of sphagnum peat peloids of Kolkheti lowland	Self-funding	Professor D. Berashvili, I. Machutadze Chief Scientist at Institute of Phytopathology and Biodiversity, Batumi Shota Rustaveli State University	A. Tsertsvadze
2	Study of clays prevalent in Adjara region for medical and cosmetological purposes.	Self-funding	Professor D. Berashvili, Associate Professor G. Mikaia	A. Gaprindashvili
3	Empovement of plant alkaloid containing anticancer dosage form based on nanotechnology and natural excipients	Self-funding	Professor D. Berashvili Consultant: Professor A. Bakuridze	L. Ebralidze
4	Development of nanoparticles for intranasal targeted delivery of vinpocetine and carbamazepine	Self-funding	Associate Professor M.Jokhadze, Consultant- Professor A.Bakuridze	N. Bakhtadze

Department of Pharmaceutical Technology**Head- A. Bakuridze**

Nº	Project title	Project supervisor	Project participants	Funding organization
1	Development of transdermal nanocomposites from bioactive compounds of comfrey	Professor A.Bakuridze	S. Gokadze	Shota Rustaveli National Science Foundation

2	Development of modern ready medication forms from new herbal biopolymers for healing wounds and burns	Professor A.Bakuridze, V. Barbakadze Doctor of Biological Sciences	S. Gokadze	Shota Rustaveli National Science Foundation
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Faculty of Physical Medicine and Rehabilitation

Department of Medical Rehabilitation and Sports Medicine

Head- N. Chabashvili

N ^o	Project title	Project supervisor	Project participants	Funding organization
1	3 rd phase randomized study of safety and efficacy of Karipazim gel N1 as ultraphonophoresis to establish its antiseptic, anti-inflammatory and regenerative properties during different types of degenerative dystrophic diseases, osteoarthritis, shoulder peri-arthritis and spondylosis	Professor N. Gorgaslidze	E. Tataradze- Principal investigator participants N. Chabashvili M. Sopromadze Z. Sopromadze T. Svanishvili	State budget of Georgia

Department of Physics, Biophysics, Biomechanics and Information Technologies

Head – Professor T. Sanikidze

N ^o	Project title	Project supervisor	Project participants	Funding organization
1	International standards of medical education. Project BME-ENA education initiative in biomedical engineering in the East. Project number 543904-TEMPUS-1-2013-1-GR-TEMPUS-JPCR	Professor T. Sanikidze	N. Kandelaki D. Nadareishvili E. Shekiladze L. Cheishvili	EU

2	Several aspects of pathogenesis of injury from dental prosthesis and analysis of prophylactic measures	Professor S. Mghebrishvili, Professor T. Sanikidze	Z. Nakudashvili	Self-funding
3	Age related skin changes in women at reproductive age and menopause	Professor A. Katsitadze, Professor T. Sanikidze	K. Berianidze	Self-funding
4	Arterial hypertension- study of pathogenesis of target organ injury, possibilities of treatment and prevention in clinical and experimental settings	Professor I. Megreladze, Professor T. Sanikidze	K. Kakabadze	Self-funding

Department of Physical Medicine

Head – Professor L. Maskhulia

Nº	Project title	Project supervisor	Project participants	Funding organization
1	Mechanisms of oxidative stress, its effect on cardiovascular and skeletal system of sportsmen and its role in overtraining syndrome caused by physical exertion	Professor L. Maskhulia	T. Kajaia	Self-funding

Department of Physiology

Head - professor I. Kvachadze

Nº	Project title	Project supervisor	Project participants	Funding organization
1	Role of opioid and cannabinoid systems in pain modulation in limbic areas	Professor I. Kvachadze, Professor M. Tsagareli	N. Tsagareli	Self-funding

2	Assessment of individual and gender differences of pain sensation	Professor I. Kvachadze, Professor M. Tsagareli	M. Apkhazava	Self-funding
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Bakhutashvili Institute of Medical Biotechnology

Head - Director, Associate professor I. Pantsulaia

Scientific-Research Projects Funded by State Budget of Georgia

Nº	Project title	Project supervisor	Project participants
1	Role of regulator T cells and cytokines in the pathogenesis of rheumatoid arthritis <i>medicine, immunology, rheumatology</i>	N. Kikodze	M. Iobadze N. Kukuladze R. Aprasidze M. Lemonjava
2	Study of age related inflammatory markers in Georgian population <i>gerontology, immunology</i>	I. Pantsulaia	Ts. Atamashvili T. Elisashvili N. Chilovani
3	Mechanisms of chronic inflammation in Cystic Fibrosis <i>Epigenetics</i>	E. Kvaratskhelia	E. Maisutadze M. Gagua M. Kamkamidze
4	Study of protective, toxicological and immunomorphological aspects of natural zeolites and development of prophylactic and treatment formulation -Detox-Zeolim <i>Immunology</i>	B. Korsantia	M. Akhvlediani Z. Bukia Ts. Gagnidze E. Vorobiova
5	Development of flu vaccine from natural zeolite <i>Virology, biotechnology</i>	S. Kupradze	I. Gvelesiani L. Kajaia N. Mirianashvili
6	Safe alternative ways of treatment for glucocorticoid dependent asthma <i>Allergology, immunology</i>	G. Gurgenzidze	D. Labartkava N. Urushadze
7	Megaprotex- new treatment for immunorehabilitation of chronically ill individuals <i>Immunology, rehabilitation</i>	N. Dabrundashvili	I. Kharischarishvili A. Aladashvili N. Chighvinadze
8	Prevention and treatment of chronic diseases with bioactive compounds of herbal food <i>Biochemistry</i>	I. Chkhikvishvili	M. Esaiashvili T. Meladze T. Sanikidze T. Mchedlishvili N. Khandratiani G. Sharashenidze
9	Outcome of pregnancy with gestational diabetes and its correction <i>Embryology, teratology, biochemistry</i>	M. Gongadze	M. Machavariani M. Enukidze N. Gogia

10	Association of salt sensitivity genes, Na reabsorption in proximal convoluted tubules and cardiotonic steroids in salt-sensitive essential hypertension in Georgian population <i>Cardiology, therapy</i>	I.Andronikashvili	Z. Kereselidze P. Nozadze N. Pantsulaia
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Scientific-Research Projects Funded by State Grants (Shota Rustaveli National Science Foundation)

Nº	Project title	Funding organization	Project supervisor	Project participants
1	Effects of radiofrequency thermal ablation on adaptive immune response in patients with hepatic cancer <i>medicine, immunology, interventional radiology</i>	Shota Rustaveli National Science Foundation	Associate professor N. Janikashvili, Profesor T. Chikovani	M. Mizandari N. Kikodze I. Pantsulaia K. Mazmishvili N. Paksashvili M. Iobadze N. Nanava Kh. Rekhviashvili ბ. ჩოგინაძე
2	Role of IL-10 and alpha TNF in the pathogenesis of miscarriages caused by diabetes	Shota Rustaveli National Science Foundation FR330/7-160/14	M. Gongadze Doctor of philosophy in Biology	N. Gogia Ts. Atamashvili A. Sepiashvili M. Iobadze

Kutateladze Institute of Pharmacochemistry

Head - Director, Associate Professor N. Gorgaslidze

Scientific-Research Projects Funded by State Budget of Georgia

Nº	Project title	Project supervisor	Project participants
1	Division of Steroid Substances <i>Yucca elephantipes</i> – chemical composition of flowers. Separation of stilbenes from rhizomes and stems of <i>Yucca gloriosa</i> , their characterization and pharmacological study. <i>Digitalis ciliata</i> – Obtaining phenylethanoids from the roots of <i>Digitalis ciliata</i> , their characterization and pharmacological study. <i>Digitalis ferruginea</i> - study of polar substances of <i>Digitalis ferruginea</i> fruits. <i>Tribulus terrestris</i> - study of steroidal glycosides and other components of <i>Tribulus terrestris</i> underground parts . <i>Allium porum</i> - Further study of steroid substances of <i>Allium porum</i>	E. Kemertelidze, Doctor of Pharmaceutical Sciences, Academician	L. Gvazava M. Benidze A. Skhirtladze T. Muzashvili V. Nebieridze N. Sakvarelidze

2	<p>Division of Alkaloids</p> <p>Study of <i>Aconitum anthora</i> for content of bioactive alkaloids.</p> <p>Obtaining total bioactive alkaloids from aerial parts of <i>Aconitum orientale</i>. Fractioning of total alkaloids derived from aerial parts and analysis of individual alkaloids.</p> <p>Correction of quantitative determination chromatographic method of pharmacologically active alkaloid Lappaconitine. Cytotoxic analysis of obtained alkaloid fractions</p> <p>Annual report.</p> <p>Screening genus <i>Magnolia plants: Magnolia kobus D.C., Magnolia officinalis Rehder Wilson, Magnolia grandiflora L.</i> (bark) for alkaloid content. Fractioning and analysis of total bioactive substances. Alkaloid identification and determination of specific cytotoxicity.</p> <p>Screening shoots of <i>Sparcium junceum L.</i> for alkaloid content. Extraction of ripe seeds of <i>Peganum harmala L.</i> for removal of fatty acids. Obtaining and analysis of total alkaloids from <i>Peganum harmala</i> fruits.</p> <p>Identification of specific activity of substances obtained from <i>Peganum harmala L.</i> seeds. Screening <i>Vinca rosea L.</i> underground parts for monomer alkaloid content. Screening substances obtained from aerial parts of plant for monomer alkaloid contents and their cytotoxicity. Screening <i>Vinca minor L.</i> aerial parts for alkaloids content.</p> <p><i>Vinca herbacea</i>-b obtaining total alkaloid substances from underground parts of <i>Vinca herbacea</i> via modern phytotechnology. Analysis of bioactive alkaloids majdine. Transfer of derived substance to the department of preclinical pharmacological study in order to identify its hemopoietic properties.</p>	<p>Professor V.Vachnadze, Doctor of Pharmaceutical Sciences</p>	<p>L.Kintsurashvili T. Suladze N. Vachnadze</p>
3	<p>Division of Lipids and Anthraquinones</p> <p>Identification of lipids and anthraquinones in plants and mineral raw materials growing in Georgia.</p> <p>Study of <i>Zingiber officinalis</i> Rosc. bulbs (Zingiberaceae)</p> <p><i>Taraxacum officinalis</i> Wgg roots (Asteraceae) <i>Juglans regia L.</i> (Juglandaceae) for lipid content and accompanying compounds.</p> <p>Preliminary selection of plants with lipid content and accompanying compounds growing in Georgia.</p> <p>Participation in Psoranton C implementacion.</p>	<p>D.Turabelidze, Doctor of Pharmacy</p>	<p>Ts. Sulakvelidze B. Kikalishvili M. Malania</p>
4	<p>Division of Pharmaceutical Technology</p> <p>Processing formulation and laboratory technologies of new dosage forms for application in medicine, cosmetology and</p>	<p>Professor G. Tsagareishvili</p>	<p>L. Tsiklauri M. Orjonikidze D. Lagazidze</p>

	<p>veterinary.</p> <p>Study of antirheumatoid activity of total triterpenoid saponins and Paciflogin active substance with the purpose of developing targeted drug delivery system formulation and technology.</p> <p>Developing formulation and technology for treatment and prophylactic medication containing natural bioactive substance on the basis of Askana Clay.</p>		
5	<p>Division of Terpenic Compounds</p> <p>Phytochemical study and identification of pharmacological activity of <i>Daphne glomerata Lam.</i> leaves, genus <i>Daphne L.</i> growing in Georgia.</p> <p>Accumulation of active substance of drug Siklacite based on results of clinical approbation, preparation of registration samples, quantitative and qualitative standardization and development of primary and secondary packaging and labeling project.</p> <p>Accumulation of anticonvulsive active substance from <i>Cephalaria</i> roots. Identification of anticonvulsive activity of phenols derived from watery extract of accumulated active substance.</p> <p>Obtaining active substance of antireumatoid drug Faciflogin and PS-551 for producing ointment of local and topical application. Packaging Faciflogin in 10000 blister packs, introduction of the plant into West Georgia.</p> <p>Obtaining and accumulation of Luteolin glycoside from purified sum for analysis. Updating laboratory regulations to meet modern requirements.</p>	<p>G. Dekanosidze, Doctor of Pharmaceutical Sciences</p>	<p>V. Mshvildadze Z. Kemoklidaze M. Getia N. tabatadze</p>
6	<p>Division of Herbal Biopolymers</p> <p>Enantiomeric separation of racemic epoxide, synthetic analogue of <i>Symphytum</i> bioactive biopolymer, on columns by HPLC .</p>	<p>V. Barbakadze Doctor of Biological Sciences</p>	<p>M.Merlani L.Gogilashvili L.Amiranashvili</p>
7	<p>Division of Phenolic Compounds</p> <p>Identification of bioactive phenolic compounds in species of Georgian flora.</p> <p>Chemical study of phenolic compounds in several promising species of Georgian flora.</p> <p>Preliminary examination of materials of pharmacobotanical expedition 2016 for phenolic compound content.</p>	<p>M. Alania, Doctor of Pharmaceutical Sciences</p>	<p>T. Saghreshvili K. Shalashvili N. Kavtaradze M. Sutishvili</p>
8	<p>Division of Enzymology</p> <p>Production of medications containing Enzyme complexes- Bromelain and Papain</p>	<p>G. Erkomaishvili, Doctor Chemistry, N. Gorgaslidze Doctor of Pharmacy</p>	<p>L. Nadirashvili N. Nijaradze</p>

9	Division of Chemical Modification of Natural Substances New Hydrazone and Amino derivative synthesis from Epiandrosterone.	N. Nadaraia, Doctor of Chemistry	M.Kakhbrishvili N. Barbakadze
10	Division of Bioactive Additives and Cosmetology Development of medical form and packaging form for herbal tooth powder. Production of skin structure improving ointments containing mud Akhtala lipids. Development of physico-chemical method of analysis for laxative bioactive additives .	P. Yavich, Doctor of Chemistry N. Gorgaslidze Doctor of Pharmacy	M. Kakhvelidze L. Churadze M. Gabelia
11	Division of Pharmacobotany Morphological and systemic properties of several promising plants; biological and anatomical properties of natural resources.	M. Churadze Doctor of Biology	K. Mchedlidze J. Aneli E. Lomidze
12	Department of Preclinical Pharmacology Identification of bioactivity and pharmacological efficacy of natural substances of various classes with the purpose of producing medications.	K. Mulkijanian	N. Gogitidze N. Mushkiashvili J. Novikova M. Sulakvelidze M. Moistrapishvili G. Gasimov

**Scientific- Research Projects Funded By
Shota Rustaveli National Science Foundation Grants**

Nº	Project name	Funding organization	Project supervisor	Project participants
1	New data on <i>Tribulus terrestris</i> chemical composition	Shota Rustaveli National Science Foundation	V. Nebieridze	V. Nebieridze
2	Potential bioactive nitrogenous 5 α -steroid synthesis and its pharmacological study. project №217560	Shota Rustaveli National Science Foundation	N. Nadaraia	N. Nadaraia N. Barbakadze M. Kakhbrishvili
3	Potential bioactive nitrogenous steroid compounds. Project #YS-2016-51	Shota Rustaveli National Science Foundation	N. Nadaraia	N. Barbakadze
4	Phytochemical and biological study of Georgian endemic species <i>Daphne glomerata</i> Lam. of <i>Daphne</i> family	Kutateladze Institute of Pharmacochemistry, Grant № PhD_F17_34 Shota Rustaveli National Science Foundation	G. Dekanosidze V. Mshvildadze	G. Moshvashvili