

Tbilisi State Medical University
Current and Accomplished Scientific-Research Projects
2019

Faculty of Medicine

Department of Allergology and Clinical Immunology

Head - Prof. Al. David Telia

1. Efficacy of Sublingual Immunotherapy in Allergic Asthma and Rhinitis. Retrospective, Replication, Systemic Meta-Analysis

2018-2021

Research personnel:

Supervisor - Assoc. Prof. K. Machavariani, consultant - Prof. Al. David Telia, PhD. student Al. (Sandro) Telia

2. Interrelation of Stress, Depression, Anxiety, Sleep Disorders and Allergic Skin Diseases in Adults

2018-2021

Research personnel:

Supervisor - Assoc. Prof. K. Machavariani, consultant - Prof. Al. David Telia. PhD. student Zaza Telia

3. 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

2017 – 2019

Scientific-research funded by foreign grant

Teva Branded Pharmaceutical Products R&D Inc: Pennsylvania, USA

Research personnel:

Prof. Al. David Telia, Assoc. Prof. K. Machavariani, M. Shavgulidze

1. The Role of Heavy Metals in the Development of Various Neuromotor Disorders in Children and Adolescents

2019-2021

Research personnel:

Supervisors - Prof. N. Geladze, Assoc. Prof. K. Gogberashvili. PhD. student A. Chochia

2. Effect of Vitamin D on the Development of Musculo-Skeletal Apparatus and Nervous System in Children

2019-2021

Research personnel:

Supervisors - Prof. N. Uberi, Assoc. Prof. S. Bakhtadze. PhD. Student N. Cholokava

3. Somatoform Disorders in Children and Adolescents – Continuous Medical Education Programme

2019

Research personnel:

Prof. N. Geladze, Assoc. Prof. N. Khachapuridze, Assoc. Prof. S. Bakhtadze, Asst. Prof. N. Kapanadze, Asst. Prof. R. Mkheidze

4. The Role of Pro-Inflammatory Cytokines in Various Forms of Epilepsy in Children

2019-2021

Scientific-research funded by Shota Rustaveli National Science Foundation Grant

Research personnel:

Supervisor - Assoc. Prof. S. Bakhtadze, participants – Prof. N. Geladze, Assoc. Prof. N. Khachapuridze

5. Investigation of Neurodevelopmental Disorders in Risk Group Newborns under 2 Years of Age

2016-2019

Research personnel:

Supervisor - Assoc. Prof. N. Khachapuridze, PhD student N. Tskimanauri

6. Clinical Study: MRZ60201_3091_1 Multicentre, Prospective, Open-Label, Randomized Double Blind, Placebo-Controlled, Parallel Group Extended Study to Investigate NT201 Efficacy and Safety in Neurological Disorders or Mental Disabilities.

2015-2019

Scientific-research funded by foreign grant

Pharmaceutical company MERZ protocol #MRZ60201_3091 Germany

Research personnel:

Supervisor - Prof. N. Geladze, participants - Assoc. Prof. S. Bakhtadze, Assoc. Prof.

N. Khachapuridze, Asst. Prof. N. Kapanadze

7. International, Multicentre, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study and Extended Observation (EP0034) to Investigate Efficacy and Safety of Lacosamide as adjunctive therapy in Subjects >1 Month to < 4 Years with Partial Epilepsy

2015-2020

Scientific-research funded by foreign grant

Pharmaceutical company UCB, USA

Research personnel:

Supervisor - Assoc. Prof. S. Bakhtadze. Participants - Prof. N. Geladze, Assoc. Prof.

N. Khachapuridze

8. International Study in Association with University College London (UCL)

2019-2020

Scientific-research funded by foreign grant

Research personnel:

Principal investigator - Assoc. Prof. S. Bakhtadze

Department of Neonatology

Head – Prof. I. Pavlenishvili

1. Placental Umbilical Artery 3D Matrix and Its Use in Surgery of Biliary Atresia.

2016-2019

Research personnel:

Supervisors - Prof. Z. Kakabadze, prof. I. Pavlenishvili. PhD. student K. Chakhunashvili

Department of Pediatrics #3
Head - prof. N. Uberi

1. Effect of Vitamin D on the Development of Musculo-Skeletal Apparatus and Nervous System in Children

2019-2022

Research personnel:

Supervisors - Prof. N. Uberi, Assoc. Prof. S. Bakhtadze. PhD. Student N. Cholokava

Department of Pediatric and Adolescent Medicine
Head- Prof. K. Pagava

1. Current State of Antibacterial Medication Use and the Ways of Its Optimization

2016-2019

Scientific-research funded by foreign grant

BioMérieux and Methusalem Grant to Herman Goossens of the Flemish government

Research personnel:

Supervisor - Prof. K. Pagava. PhD. student I. Korinteli

2. Effect of Heavy Metals in Soil on Health of Children and Adolescents

2019-2020

Research personnel:

Coparticipant – Prof. K. Pagava

Department of Pediatric Surgery
Head – Prof. M. Buadze

1. Clinical Trial Protocol: DUR001-306, Study Title: A Phase 3, Multicenter, Open-Label, Randomized, Comparator Controlled Trial of the Safety and Efficacy of Dalbavancin versus Active Comparator in Pediatric Subjects with Acute Bacterial Skin and Skin Structure Infections

2017-2020

Scientific-research funded by foreign grant

Research personnel:

Prof. M. Buadze, Assoc. Prof. A. Kutubidze, Asst. Prof. V. Talakvadze

Department of Experimental and Preclinical Anatomy

Head - Prof. Z. Kakabadze

1.Reconstruction of Antero-Lateral Abdominal Wall Defect with Biological 3D Membranes PhDF-18-2192. Bioengineering, Surgery

2018-2020

Scientific-research funded by Shota Rustaveli National Science Foundation Grant

Research personnel:

Supervisors – Prof. Z. Kakabadze, Prof. N. Lomidze. PhD. student D. Chakhunashvili

Department of Histology, Cytology and Embriology

Head – Prof. R. Rukhadze

1.Mechanisms of Chronization of Inflammatory Process in Patients with Cystic Fibrosis

2015-2020

Research personnel:

Supervisor - Senior Scientist E. Kvaratskhelia. Scientist E. Maisuradze, Senior Scientist M. Gagua, Scientist M. Zarandia, M. Kamkamidze

Department of Molecular Pathology

Head – Prof. G. Burkadze

1.Peculiarities of Epigenetic Changes and Proliferative Activity of Epithelial Ovarian Tumors (Adenoma, Borderline Ovarian Tumor, Adenocarcinoma) in Reproductive Women. Medicine, Pathological Anatomy

2015-2019

Research personnel:

Supervisor - Prof. G. Burkadze. PhD. Student V. Munjishvili

2. Peculiarities of Trophoblastic Disease in Spontaneous Abortions. Medicine, Pathological Anatomy, Gynecology

2015-2019

Research personnel:

Supervisor – Prof. N. Kintraia, Prof. G. Burkadze. PhD. student N. Chikvaidze

3. Peculiarities of Changes of Cervical Microenvironment in Neoplastic Process

2016-2019

Research personnel:

Supervisor – Assoc. Prof. – G. Tevdorashvili. PhD. Student K Manjgaladze

Department of Cytopathology

Head – Prof. R. Beriashvili

1. Erasmus + Raising Research Capacity of Georgian HEIs through Developing R&D Units /HERD

2019-2021

Research personnel:

Participant – Prof. R. Beriashvili

Department of Pathophysiology

Head - Prof. N. Pavliashvili

1. Antihypertensive Effects and Mechanisms of Urotensin II Receptor Antagonist Palosuran in Experimental Arterial Hypertension

2019-2022

Research personnel:

Supervisor – Assoc. Prof. K. Gambashidze

2. Pharmacological Characteristics and Therapeutic Efficacy of Un Phage in Experimental Model of Sepsis Caused by E. Coli

2019-2022

Research personnel:

Supervisor – Assoc. Prof. K. Gambashidze

3. Experimental Study on Pharmacodynamics of Bioactive Microbial Products (IN-011, IN-012, IN-013)

2019-2021

Research personnel:

Supervisor – Assoc. Prof. – K. Gambashidze

4. Mechanisms of Alterations in Antioxidative and Prooxidative Systems, Nitric oxide and Erythrocytes in Alloxan Induced Diabetes

2017-2020

Research personnel:

Supervisors – Prof. T. Sanikidze, Assoc. Prof. N. Pavliashvili.

PhD. student K. Abuladze

Department of Forensic Medicine

Head - Prof. B. Kilasonia

1. Morphology of Antemortem and Postmortem Fractured Bones

Forensic Medicine, Pathological Anatomy

2017-2021

Research personnel:

Supervisors - Prof. B. Kilasonia, Prof. G. Chikhladze. PhD student M. Gonashvili

2. Expert Analysis of Electrical Injury

2018-2021

Research personnel:

Supervisor - Assoc. Prof. R. Beriashvili. PhD student - D. Grigolia

Department of Immunology

Head – Prof. T. Chikovani

**1. The Role of Regulatory T cells and Cytokines in the Pathogenesis of Rheumatoid Arthritis
Medicine, Immunology, Rheumatology**

2014-2019

Research personnel:

Supervisor - Assoc. Prof N. Kikodze. Investigators – Prof. T. Chikovani,

Assoc. Prof. N. Janikashvili, Principal Scientist M. Iobadze, Senior Scientist N. Kukuladze.

PhD. student N. Tsiskarishvili

2. Study of Age Related Inflammatory Markers in Georgian Population.

Gerontology, Immunology

2014-2019

Research personnel:

Supervisor - Assoc. Prof I. Pantsulaia. PhD. student M. Jgarkava. Investigator – Ts.

Atamashvili

**3. Plasticity of Splenic T Lymphocytes in Patients with Autoimmune Hematologic
Disorders. Immunology, Hematology, Physiology**

PhD_F_17_50

2017-2020

Scientific-research funded by Shota Rustaveli National Science Foundation Grant

Research personnel:

Supervisors Assoc. Prof. N. Janikashvili, Prof. I. Kvachadze.

Investigators – PhD student S. Metreveli, Prof. T. Chikovani, Assoc. Prof. N. Kikodze,
Principal Scientist M. Iobadze

4. Plasticity of Splenic T Lymphocytes in Patients with B Cell Lymphoma.

Medicine, Immunology, Oncology, Hematology

PhD_F_17_ 20

2017-2020

Scientific-research funded by Shota Rustaveli National Science Foundation Grant

Research personnel:

Supervisors - Assoc.Prof. N. Janikashvili, Prof. G. Giorgobiani.

Investigators - PhD student N. Nanava , Prof. T. Chikovani, Assoc. Prof. N. Kikodze,

Principal Scientist M. Iobadze

5. Effects of Radiofrequency Ablation on Immune Response in Patients with Inoperable Pancreatic Cancer

PhD_F_17_ 46

2016-2020

Scientific-research funded by Shota Rustaveli National Science Foundation Grant

Research personnel:

Supervisors - Prof. T. Chikovani, Prof. M. Mizandari. Investigators - PhD student N. Toria,
Assoc. Prof. N. Kikodze, Principal Scientist M. Iobadze, Assoc.Prof. N. Janikashvili,

Assoc. Prof. I Pantsulaia

Department of Molecular and Medical Genetics

Head - Prof. T. Tkemaladze

1. Genetic and Epigenetic Aspects of Inflammation. Epigenetic Modifiers as Therapeutic Target in Chronic Pain. Monogenic Disease Modifiers

2016-2020

Research personnel:

Supervisors - Prof. T. Tkemaladze, Prof. E. Abzianidze. Investigators - Assoc. Prof. E. Kvaratskhelia, Assoc. Prof. K. Kankava, Asst. Prof. M. Zarandia, Ts. Gigineishvili, B. Partskhaladze, PhD. Student T. Kvaratskhelia, PhD. Student N. Kraveishvili

Department of Roentgenology

Head – Prof. O. Urushadze

1. Effects of Radiofrequency Ablation on Immune Response of Patients with Inoperable Pancreatic Cancer

PhD_F_17_ 46

2016-2020

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

Supervisors - Prof. T. Chikovani, Prof. M. Mizandari, investigators - PhD student N. Toria, Assoc. Prof. N. Kikodze, Principal Scientist M. Iobadze, Assoc. Prof. N. Janikashvili, Assoc. Prof. I Pantsulaia

Department of Interventional Radiology

Head - Prof. M. Mizandari

1. Effects of Radiofrequency Ablation on Immune Response of Patients with Inoperable Pancreatic Cancer

PhD_F_17_ 46

2016-2020

Scientific-research funded by Shota Rustaveli National Science Foundation Grant

Research personnel:

Supervisors - Prof. T. Chikovani, Prof. M. Mizandari, investigators - PhD student N. Toria, Assoc. Prof. N. Kikodze, Principal Scientist M. Iobadze, Assoc.Prof. N. Janikashvili, Assoc. Prof. I Pantsulaia

Department of Propedeutics of Neural Diseases and Topical Diagnosis

Head – Prof. M. Beridze

1.The role of some gene mutations in the development of amyotrophic lateral sclerosis in Georgian population and prospects of modification

2020-2023

Scientific-research funded by foreign grant

University College London Queen Square, Neurogenetics Laboratory Grant, UK

Research personnel:

Supervisors - Prof. M. Beridze, Prof. Henry Houlden, principal investigator - PhD. Student M. Kekenadze

Department of Clinical Neurology

Head – Prof. M. Janelidze

1.Vascular Cognitive Impairment in Georgia.

Medicine, Health Sciences

DI-18-428

2018-2021

Scientific-research funded by Shota Rustaveli National Science Foundation Grant

Research personnel:

Cosupervisor – Prof. M. janelidze, Investigator – A. Dzagnidze

Department of Oncology

Head – prof. R. Gvamichava

1.Trainings for Physicians from Abkhazia

Education of Doctors in Oncology and Palliative Care ექიმთა

2019-2020

Scientific project funded by foreign x

Embassy of Slovakia, Slovakia

Research personnel:

Project director, trainer Asst. Prof. I. Abesadze x

Project manager, trainer – Prof. R. Gvamichava x

2. Genetic Characteristics and Gene Polymorphism of Prostate Cancer in Georgian Population

2018-2022

Scientific-research funded by foreign grant

Research personnel:

Principal investigators - Assoc.Prof. A. Tavartkiladze, Prof. G. Simonia, R. Khutsishvili

3. Genetic Screening for Primary Hepatic Cancer in Patients Infected with HBV and HCV

2018-2022

Scientific-research funded by foreign grant

Research personnel:

Principal investigators - Assoc.Prof. A. Tavartkiladze, N. Okrostsvaridze, R. Khutsishvili

Department of Internal Diseases #2

Head – Prof. A. Kistauri

2. Peculiarities of Heart Remodeling in Patients with Metabolic Syndrome Medicine, Cardiology

2018-2021

Research personnel:

Supervisor – Prof. A. Kistauri. PhD. Student D. Maisuradze

1. Correction of Intestinal Flora in Patients with Chronic Renal Diseases Receiving Hemodialysis with the Purpose of Improving Quality of Life

2018-2021

Research personnel:

Supervisors – Assoc. Prof. I. Chokhanelidze, Assoc. Prof. T. Kandashvili. PhD student

A. Shamanadze

2. Effect of Modification of Intestinal Flora on Correcting Glycemia in Patients with Type 2 Diabetes

2018-2021

Research personnel:

Supervisor – Assoc. Prof. T. Kandashvili. PhD student N. Katamadze

3. Dynamics of Anemia, Inflammatory and Hemorrhagic Parameters in Patients with Gastric Cancer with or without Splenectomy in Postsurgical Period. Medicine, Internal Medicine

2018-2021

Research personnel:

Supervisor – Assoc. Prof. N. Narsia. PhD student E. Labadze

4. European Commission COST Action

CA16207 – European Network for Problematic Usage of the Internet (PUI)

COST – Cooperation in Science and Technology – European Commission (Brussels, Belgium)

2017-2021

Scientific-research funded by foreign grant

Research personnel:

Participant – Z. Kirtava

Intracardiac Hemodynamics and Hemorheological Changes in Various Cardiac Disorders Associated or not Associated with Flutter. Medicine – Cardiology

2018-2021

Research personnel:

Supervisor – Assoc. Prof. N. Narsia. PhD. Student M. Gotsadze

Department of Surgery
Head - Prof. G. Tomadze

1. Protocol N 001-303. N 129,849. 3rd Phase Multicentre, Prospective, Clinical Study to Investigate Antibiotic Sulopenem

2018-2019

Scientific-research funded by foreign grant

Pharmaceutical Company Iterum Therapeutics, Ireland

Research personnel:

Prof. G. Tomadze, Assoc. Prof. A. Megreladze, Asst. Prof. G. Azmaiparashvili, A. Gvazava

Department of Surgery #2
Head - Prof. B. Mosidze

1. Optimization of Anesthesia in Rectal Surgery.

Surgery, Anesthesiology, Reanimatology

2018-2020

Research personnel:

Supervisors – Prof. B. Mosidze, S. Kajaia, D. Vardosanidze, R. Kvrivishvili. PhD. student I. Aghdgomelashvili

2. Optimization of Surgical Management for Complicated Colon Cancer.

General Surgery, Oncology

2018-2020

Research personnel:

Supervisors – Assoc. Prof. Z. Demetrashvili, Prof. B. Mosidze. PhD student – G. Merabishvili

Department of Surgery # 3

Head - Prof. G. Giorgobiani

1. Plasticity of Splenic T lymphocytes in Patients with B cell Lymphoma

2017-2020

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Supervisors - Assoc.Prof. N. Janikashvili, Prof. G. Giorgobiani,

investigators - PhD student N. Nanava, Prof. T. Chikovani, Assoc. Prof. N. Kikodze,

Principal Scientist M. Iobadze

Department of Neurosurgery

Head - Prof. G. Ingorokva

1. Treatment of Saccular Aneurism in the Posterior Part of the Circle of Willis during Intracranial Hemorrhage

2015-2019

Research personnel:

Supervisor – G. Ingorokva. PhD. student E. Ekvimishvili

Department of Medical History and Bioethics

Head –Prof. R.Shengelia

1. Genetic History and Ethnogenesis of Georgia (population genetics and molecular anthropology)

2012-2022

Research personnel:

Supervisors -Prof. R. Shengelia. Participants - N. Khelaia, E. Sanikidze, M. Gurgenidze, other Georgian and Foreign Colleagues

Faculty of Dentistry

Department of Odontology

Head - Prof. M. Mamaladze

1. Comparative Characterization of Antimicrobial Activity of Sicilian Sumac in the Management of Endodontic Diseases

2019-2022

Research personnel:

Supervisor – Assoc. Prof. N. Nijaradze

Faculty of Public Health

Department of Epidemiology and Biostatistics

Head – Prof. I. Mchedlishvili

1. Prevalence, Clinical Peculiarities and Risk Factors of Autism Spectrum Disorders in Georgia

2019-2022

Scientific-research funded by Shota Rustaveli National Science Foundation Grant

Research personnel:

Coordinator – N. Mebonia

Department of Hygiene and Medical Ecology

Head – Prof. N. Vepkhvadze

1. Peculiarities of HCV Spread in Tbilisi Population and Efficacy of Prophylactic-Treatment Measures in Elimination of the Disease.

Public Healthcare, Preventive Medicine, Epidemiology

2019-2022

Supervisors – Prof. N. Vepkhvadze, Prof. T. Tsertsvadze.

Consultant – Prof. I. Mchedlishvili

2. Epidemiological Characteristics and Prevention of Bloody Diarrhea of Various Etiology and Associated Hemolytic-Uremic Syndrome in Georgia.

Public Healthcare, Preventive Medicine, Epidemiology

2015-2019

Scientific-research funded by:

1. State epidemiological surveillance programme for diarrheal diseases;

2. Grant # G-2099, ISTC – molecular epidemiology of Enterotoxigenic E. Coli in Georgia

Research personnel:

Supervisors – Prof. N. Vepkhvadze, Prof. T. Tsertsvadze. PhD. student O. Chokoshvili

3. Study on Radioprotective Effects of Bioactive Substances in Animal Research.

Public Healthcare, Radiobiology, Medical Physics

2014-2019

Supervisors – Prof. T. Sanikidze, Assoc. Prof. M. Giorgobiani. PhD. student I. Gvilava

Faculty of Pharmacy

Department of Pharmaceutical Technology

Head - Prof. A. Bakuridze

1. Design, Technology and Biological Assessment of Anticancer in Situ Nanogel.

Medicine, Health Sciences

2019-2021

Scientific-research funded by Shota Rustaveli National Science Foundation Grant

Research personnel:

PhD. Student L. Ebralidze

2. Development of Targeted Delivery Foam Tablets from H. Pylori Eradication Gold Standard

2018-2021

Research personnel:

Supervisor –Prof. A. Bakuridze, Asst. Prof. L. Bakuridze, R. Zazadze

Dekiver

Department of Pharmaceutical and Toxicological Chemistry

Head - Prof. T. Murtazashvili

1. CARYS 19-363 New Phytobiotic as an Antibiotic Alternative for Poultry

2020-2021

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

Supervisor –Prof. A. Bakuridze. Participant Asst. Prof. K. Sivsivadze

Department of Pharmacognozy
Head – Prof. D. Chinchradze

1 Design, Technology and Biological Assessment of Anticancer in Situ Nanogel.
Medicine, Health Sciences
2019-2021

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

PhD. Student L.Ebralidze

Faculty of Physical Medicine and Rehabilitation

Department of physics, Biophysics, Biomechanics and Information Technologies
Head – prof. T. Sanikidze

1. “PROGRESSIO” – Pomeranean Medical University Development Project POWR.

03.05.00-00-Z090/17 (European Union)

2018-2020

Scientific-research funded by foreign grant

Research personnel:

Lecturer – Prof. T. Sanikidze

2. Risk Reduction of Chemical Pollution ", AUF-MECR 2020-2021

2019-2020

Scientific-research funded by foreign grant

France

Research personnel:

Local Supervisor - Prof. T. Sanikidze

3. Study on Mechanisms of Radioresistance of Biological Systems and Molecular, Cellular and Physiological Correlates of Individual Radiation

2015-2019

Research personnel:

1. Supervisor – Prof. T. Sanikidze. PhD. Student E. Lomadze

4. Space-Time Analysis of Morbidity of Sachkhere and Chiatura Population and Identification of Molecular, Cellular and Physiological Biomarkers Bearing High Risk of Morbidity

2017-2019

Research personnel:

1. Supervisor – Prof. T. Sanikidze. PhD. Student E. Lomadze

Department of Traumatology and Orthopedics

Head – Prof. L. Chikvatia

1. High Wedge Open Tibial Osteotomy and Orthroscopic Chondroplasty as a Treatment for Knee Joint Osteoarthritis

2019-2021

Research personnel:

Prof. T. Nozadze. PhD student - I. Khabeishvili

TSMU Bakhutashvili Institute of Medical Biotechnology

Head – Director Assoc. Prof. I. Pantsulaia

1. Laboratory of Immunorehabilitation

Study of Age Related Inflammatory Markers in Georgian Population.

Medicine, Gerontology, Immunology

2014-2019

Research personnel:

Supervisor - Assoc.Prof I. Pantsulaia. Investigators – Ts. Atamashvili,

PhD. student M. Jgarkava.

2.Laboratory of Biomedicine

**The Role of Regulatory T cells and Cytokines in the Pathogenesis of Rheumatoid Arthritis.
Medicine, Immunology, Rheumatology**

2014-2019

Research personnel:

Supervisor - Assoc.Prof N. Kikodze. Investigators – Prof. T. Chikovani, Assoc. Prof. N. Janikashvili, Principal Scientist M. Iobadze, Senior Scientist N. Kukuladze. PhD. student

N. Tsiskarishvili

**3.Plasticity of Splenic T lymphocytes in Patients with Autoimmune Hematologic Disorders
PhD_F_17_50**

Medicine, immunology, Hematology, Physiology

2017-2020

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Supervisors - Assoc. Prof. N. Janikashvili, Prof. I. Kvachadze, Investigators – PhD. Student S. Metreveli, Assoc. Prof N. Kikodze, Principal Scientist M. Iobadze

**3.Plasticity of Splenic T Lymphocytes in Patients with B Cell Lymphoma.
Medicine, immunology, Oncology, Hematology**

PhD_F_17_20

2017-2020

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

Supervisors - Assoc. Prof. N. Janikashvili, Prof. G. Giorgobiani, investigators – PhD. Student N. Nanava, Assoc. Prof N. Kikodze, Principal Scientist M. Iobadze

4.Biophysical Laboratory of Oxidative Processes

**Megaprotex- New Treatment Formulation for Immunorehabilitation of Chronically Ill Individuals.
Immunology, Rehabilitation**

2014-2019

Scientific research funded by state research support program

Research personnel:

Principal Investigator N. Dabrundashvili, Scientist I. Kharischarishvili, Senior Scientist A. Aladashvili, N. Chigvinadze

5. Biochemical laboratory of Receptor Systems

Mechanisms of chronic inflammation in Cystic Fibrosis

2015-2019

Scientific research funded by state research support program

Research personnel:

Supervisor – Senior Scientist E. Kvaratskhelia, Scientist E. Maisuradze, Senior Scientist M. Gagua, M. Kamkamidze

6. Laboratory of Ecological Virology

Development of Influenza Vaccine from Natural Zeolites

Medicine, Biotechnology

2015-2019

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist S. Kupradze. Investigators – Senior Scientist I. Gvelesiani, L. Kajaia

7. Laboratory of Immunorehabilitation

Toxicological and Immunomorphological Aspects of Ecological Contamination, Protective Properties of Natural Zeolites and Development of Prophylactic and Treatment Formulation Detox-Zeolim.

Medicine, Toxicology Immunology

2014-2019

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist B. Korsantia, Principal Scientist M. Akhvlediani, Scientist Ts. Gagnidze, E. Vorobyova

8. Laboratory of Immunorehabilitation

Study of Age Related Inflammatory Markers in Georgian Population.

Medicine, Gerontology, Immunology

2014-2019

Research personnel:

Supervisor - Assoc.Prof I. Pantsulaia. Investigators – Ts. Atamashvili, PhD. student

M. Jgarkava

9. Laboratory of Immunorehabilitation

Innovative Diagnostic Test-Systems for Early Detection of Colorectal Cancer

H2020-I-18-085

2018-2019

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Supervisors – Principal Scientist I. Pantsulaia, Senior Scientist A.Aladashvili. Investigator – G. Kharebava

10.Laboratory of Experimental and Clinical Allergology

Investigation of Safe, Alternative Methods of Treatment for Glucocorticoid Dependent Asthma.

Medicine, Allergology, Immunology

2014-2019

Scientific research funded by state research support program

Research personnel:

Supervisor – Prof. G. Gurgenidze. Senior Scientist D. Labartkava, N. Urushadze

11.Biophysical Laboratory of Oxidative Processes

Outcome of Pregnancy with Gestational Diabetes and Its Correction.

Biology, Biology of Development, Reproductive Immunology

2015-2019

Scientific research funded by state research support program

Research personnel:

Principal Scientist M. Gongadze, Senior Scientist M. Machavariani, Principal Scientist M. Enukidze, G. Sharashenidze

12.Laboratory of Clinical Immunopharmacology

Association of Sodium Reabsorption in Proximal Tubules, Cardiotonic Steroids and Salt Sensitivity Genes in Salt- Sensitive Essential Hypertension in Georgian Population. Medicine, Cardiology

2015-2019

Scientific research funded by state research support program

Research personnel:

Supervisor – I. Andronikashvili. Investigators - Scientist Z. Kereselidze, P. Nozadze, N. Pantsulaia

13.Laboaratory of Bioactive Compounds

Prevention and Treatment of Chronic Diseases with Plant Based Bioactive Compounds

2015-2019

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist I. Chkhikvishvili. Investigators - Principal Scientist M. Enukidze, Senior Scientist M. Esaiashvili, Scientist N. Gogia, T. Meladze, N. Khandratiani

14.Laboratory of Bioactive Compounds

Study of Pro-apoptotic, Anti-apoptotic, Proliferative, Anti-inflammatory, Pro-oxidative and Anti-oxidative Properties of Active Species of Grains and Legumes Growing in Georgia in Experimental Models of Oxidative Stress in Jurkat Cell Culture, Animal and Human Organisms

2015-2019

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist I. Chkhikvishvili. Investigators -Senior Scientist M. Esaiashvili, Scientist N. Gogia, T. Meladze, N. Khandratiani

15. Effects of Radiofrequency Ablation on Immune Response of Patients with Inoperable Pancreatic Cancer

PhD_F_17_46

Medicine, Immunology, intervention Radiology

2016-2020

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

Supervisors – Prof. T. Chikovani, Prof. M. Mizandariძს. Investigators – PhD. Student N.Toria , Assoc. Prof. N. Kikodze, Principal Scientist M. Iobadze, Assoc. Prof. N. Janikashvili, Assoc. Prof. I. Pantsulaia

TSMU Kutateladze Institute of Pharmacochemistry

Head – Acting Director Assoc. Prof. L. Mskhiladze

1.Sustainable Development of Phytochemical Science

2014-2023

Scientific research funded by state research support program

Research personnel:

Institute of Pharmacochemistry

2. Division of Lipids and Anthraquinones

Screening Plants Growing in Georgia for Lipids, Anthraquinones and Bioactive Compounds

3014 -2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist B. Kikalishvili, Senior Scientist D. Turabelidze, Senior Scientist

Ts. Sulakvelidze, Scientist M. Malania

3.Department of Phytochemistry, Division of Alkaloids

Screening Plants growing in or Introduced to Georgia *Vinca rosea L. (Family Apocynaceae)*, *Delphinium flexuosum Bieb (Family Helleboraceae)*, *Peganum harmala L. (Family*

***Peganaceae*), *Mahonia aquifolium* (Pursh.) Nutt. (Family *Berberidaceae*) for Bioactive Alkaloids**

2020

Scientific research funded by state research support program

Research personnel:

Supervisors -Prof. V. Vachnadze, Principal Scientist N. Vachnadze, Senior Scientist L. Kintsurashvili, Scientist T. Suladze

4. Study on Plant Derived Bioactive Substances of Steroid, Triterpene and Some Other Chemical Classes

2014-2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist E. Kemertelidze, Senior Scientist M. Benidze, Senior Scientist L. Gvazava

5. Study on Plants Growing or Cultivated in Georgia for Detection of Pharmacologically Active Terpenes

2014-2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist E. Kemertelidze, Senior Scientist V. Mshvildadze

**4. Department of Phytochemistry, Division of Steroid Compounds
Study on Significant Raw Bioactive Substance Containing Plants**

2014-2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist E. Kemertelidze, Senior Scientist I. Gvazava, Senior Scientist M. Benidze, N. Sakvarelidze

6. Chemistry of Bioactive Natural Compounds.

Sustainable Development of Phytochemical Science

Screening Species of Georgian Flora for Bioactive Compounds with the Purpose of Therapeutic Product Development

2014-2023

Scientific research funded by state research support program

Research personnel:

Supervisor – M. Alania, investigators – Senior Scientist, T. Saghareishvili, Senior Scientist K. Shalashvili, Scientist N. Kavtaradze, Scientist M. Sutishvili

7. Pharmacobotany

Morpho- Systemic, Natural Resources Biology and Anatomical Peculiarities of Some Promising Treatment Plants Growing in Georgia

2014-2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist K. Mchedlidze, Senior Scientist M. Churadze, Scientist J. Aneli, E. Lomidze, N. Aleksidze. G. Chabashvili

8. Enzymology, Biochemistry

Enzyme Complex Stem Bromelain Containing Stabilized Product Development with Chemical Modification

2014 -2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist G. Erkomaishvili, Senior Scientist L. Nadirashvili, PhD student T. Korinteli

9. Division of Plant Biopolymers

Screening High Molecular Fractions of *Cynoglossum officinale* L. and *Asperugo procumbens* L. for Bioactive Polymers Poly [3-(3,4-Dihydroxyphenyl)-glycine] and Synthesis of Its Analogues with Chemical and Enzymatic Catalysis. Fractionation of Low Molecular Fractions of *symphytum* and by High Performance Liquid Chromatography

2014-2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist V. Barbakadze, Senior Scientist I. Gogilashvili, Scientist L. Amiranashvili, Senior Scientist M. Merlani

13. Division of Bioactive Substances and Cosmetological Products

Technology for Receiving Bioactive Substance Based Treatment Product for Intestinal Flora Disorders

Development of Treatment Mud Akhtala Based Cosmetic Peeling Products

Scientific research funded by state research support program

Research personnel:

Principal Scientist p. Yavich, Senior Scientist M. Kakhetelidze, Scientist L. Churadze

14. Division of Chemical Modification of Natural Compounds

5 α -Pregnan-3 β -ol-20-one Hydrazone Synthesis

2014-2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist N. Nadaraia, Senior Scientist M. Kakhabrishvili, Scientist N. Barbakadze

15. Division of Chemical Modification of Natural Compounds

Sustainable Development of Phytochemical Science

Potentially Bioactive Compound Synthesis and pharmacological Study on Tigonins Obtained from *Yucca Gloriosa*. Some New Steroid Triazole Synthesis

2014-2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist N. Nadaraia, Senior Scientist M. Kakhabrishvili, Scientist N. Barbakadze

16. Department of Pharmaceutical Analysis and Standardization

Analysis of Bioactive Substances, Enriched Fractions and Extracts, Isolation of Individual Substances, Updating Analytical and Standardization Methods for Drugs Developed at the Institute of Pharmacochemistry

2014-2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist M. Getia, Scientist G. Moshiashvili

17. Pharmaceutical Technology of Pharmaceutical Products

2014-2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist G. tsagareishvili, investigators - Senior Scientist L. Tsiklauri, Scientist D. Lagazidze, Scientist M. Orjonikidze

18. Pharmacy, Pharmaceutical Technology, Nanotechnology

Developing New Effective Treatment Products and Laboratory Technologies with Bioactive Organic and Inorganic Substances

2014-2023

Scientific research funded by state research support program

Research personnel:

Supervisor - Principal Scientist G. tsagareishvili, investigators - Senior Scientist L. Tsiklauri, Scientist D. Lagazidze, Scientist M. Orjonikidze

19. Division of Bioactive Additives and Cosmetics

Developing Dermatological Cream and Powder Dosage Forms with Bioactive Substances of Georgian Flora, Mineral Waters and Treatment Muds

2020-2021

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist P. Yavich, Investigators - Senior Scientist M. Kakhetelidze, , Scientist L. Churadze

20. Screening for Bioactivity of Natural, Chemically Modified, Synthetic Compounds and their Preclinical Study

2014-2023

Scientific research funded by state research support program

Research personnel:

Principal Scientist K. Mulkijanian, Senior Scientist M. Sulakvelidze, Scientist N. Gogitidze, Scientist N. Mushkiashvili, Scientist J. Novikova

21. Travel Grant MG-TG-19-1138

2019

Project funded by Shota Rustaveli National Science Foundation Grant

22. Design, Technology and Biological Assessment of Anticancer in Situ Nanogel.

Medicine, Health Sciences FR-18-7943

2019-2020

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Prof. Z. Kakabadze, Prof. A. Bakuridze, Senior Scientist V. Mshvildadze