

TSMU 2018
Current and Accomplished Projects

Faculty of Medicine

Department of Allergology and Clinical Immunology

Head - Prof. Al. David Telia

1. 12 weeks' Randomized, Double-Blind, Placebo-Controlled Study of Efficacy and Safety of Fluticasone Propionate Multidose Dry Powder Inhaler Compared with Fluticasone Propionate/Salmeterol 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.

Research personnel:

Principal investigator – Prof. Al. David Telia. Investigators – Assoc. Prof. K. Machavariani, M. Shavgulidze

2. Open Label Clinical Trial of Restoring Cream Cicastela for Dermatological Injuries.

2018

Scientific-research funded by foreign grant

1037F5.07.22; Quanta Medical, France

Principal investigator – Prof. Al. David Telia. Investigator – Assoc. Prof. K. Machavariani

Department of Child Neurology

Head - prof. Natela (Nana) Geladze

1. Neurodevelopmental Disorders in Risk Group Children under 2 Years

2016-2020

Research personnel:

Supervisor – Assoc. prof. N. Khachapuridze. PhD. student

N. Tskimanauri

2. Clinical and Psychological Peculiarities of Somatoform and Neurotic Disorders in Children and Adolescents

2014-2018

Research personnel:

Supervisor Prof. N. Geladze. PhD student M. Khundadze

3. Neurodevelopmental Effects of Fetal Antiepileptic Drug Exposure on Children under 6 Years

2014-2018

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Supervisor – Assoc. prof. N. Khachapuridze. PhD. student N. Gogatishvili

4. Clinical trial; MRZ60201_3091_1 Multicentre, Open-Label, Long-Term, Extended, Prospective, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study to Investigate Efficacy and Safety of NT201 in Neurological Disorders or Mental Disabilities

2015-2020

Scientific-research funded by foreign grant

MERZ Pharmaceuticals, Germany

Research personnel:

Supervisor – Prof. N. Geladze. Investigators - Assoc. Prof. S. Bakhtadze, Assoc. Prof.

N. Khachapuridze, Assist. Prof. N. Kapanadze

5. 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. (SP0967) Study and Extended observation EP0034

2015-2020

Scientific-research funded by foreign grant

Pharmaceutical company UCB, USA

Research personnel:

Supervisor - Assoc. Prof. S. Bakhtadze. Investigators – Prof. N. Geladze, Assoc. Prof.

N. Khachapuridze

6. International, Multicentre, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study to Investigate Efficacy and Safety of Lacosamide as Adjunctive Therapy in Subjects >4 Years to < 17 Years with Partial Epilepsy. (SP0969) Study

2015-2018

Scientific-research funded by foreign grant

Pharmaceutical company UCB, USA

Research personnel:

Supervisor - Assoc. Prof. S. Bakhtadze. Investigators – Prof. N. Geladze, Assoc. Prof.

N. Khachapuridze

Department of Neonatology

Head - Prof. I. Pavlenishvili

1. Decellularized Human Umbilical Artery 3D Matrix Development and Its Use in the Surgery of Biliary Atresia. PhD2016_144

Experimental Medicine

2015-2018

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

Supervisors- Prof. Z. Kakabadze, Prof. I. Pavlenishvili

PhD. Student K. Chakhunashvili

Department of Pediatrics #2

Head – Prof. K. Pagava

1. Global Point Prevalence Survey.

Infectious diseases, epidemiology, biostatistics

Underway since 2010

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

Supervisor- Prof. K. Pagava, Investigator – I. G. Korinteli

2. Global Point Prevalence Survey Infection Disease

Funded by bio Mériex

Supported by: WHO regional office of Europe

Belgium. Antwerp

Scientific-research funded by foreign grant

Underway since 2010

Research personnel:

Supervisor- Prof. K. Pagava. Investigator – I. Korinteli

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

Experimental medicine

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

2.Decellularized Human Umbilical artery 3D Matrix Development and Its Use in the Surgery of Biliary Atresia.

PhDF2016_144 Experimental medicine

2016-2018

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Supervisors – Prof. Z. Kakabadze, Prof. I. Pavlenishvili. PhD. Student K. Chakhunashvili

Department of Histology, Cytology and Embriology

Head - Prof. R. Rukhadze

1.Understanding Mechanisms of Chronization of Inflammatory Processes in Patients with Cystic Fibrosis

2015-2020

Research personnel:

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

Department of Pathophysiology

Head - Prof. T. Petriashvili

1.Mechanisms of Alterations of 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 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:

Supervisors - Prof. N. Kintraia, Prof. G. Burkadze.

PhD. Student N. Chikvaidze

3. Peculiarities of Alterations of Cervical Microenvironment in Neoplastic Process
Medicine Pathological Anatomy, Gynecology

2016-2019

Research personnel:

Supervisor - Assoc. Prof. G. tevdorashvili. PhD. Student K. Manjgaladze

Department of Forensic Medicine

Head - Prof. B. Kilasonia

1. Morphology of Antemortem and Postmortem Fractured Bones

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 Regulator T cells and Cytokines in the Pathogenesis of Rheumatoid Arthritis.

Medicine, Immunology, Reumatology

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, N. Chigvinadze, R. Aprasidze

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

Gerontology, Immunology

2014-2019

Research personnel:

Supervisor - Assoc. Prof. I. Pantsulaia, Consultant – prof. T. Chikovani. Investigators – Ts. Atamashvili, T. Elisashvili

3. Plasticity of splenic T lymphocytes in Patients with Autoimmune Hematologic Disorders

PhD_F_17_50

Immunology, Oncology, Hematology

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,

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

PhD_F_17_20 Immunology, Oncology, Hematology

2017-2020

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Supervisors - Assoc. Prof. N. Janikashvili, Prof. G. Giorgobiani. Investigator - PhD student N. Nanava

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

PhD_F_17_ 46

2016-2019

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

6.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 - Assoc. Prof. I Pantsulaia,

Investigators - Senior Scientist A. Aladashvili, G. Kharebava

7.New Therapy for Noncommunicable Diseases

H2020-I-18-088

2018-2019

Scientific-research funded by Shota Rustaveli National Science foundation grant
Research personnel:

Supervisors - Prof. T. Chikovani, Prof. M. Mizandari

Investigators - Assoc. Prof. N. Kikodze, Assoc.Prof. N. Janikashvili

Department of Molecular and Medical Genetics

Head – Prof. E. Abzianidze

1.Genetic and epigenetic aspects of inflammation.
1.Epigenetic Modifiers as Therapeutic Target in Chronic Pain
2.Modifiers of Monogenic Diseases
2016-2021

Research personnel:

Supervisors – Prof. E. Abzianidze, Assoc. Prof. E. Kvaratskhelia. Investigators – Assoc. Prof. T. Tkemaladze, Assist. Prof. M. Zarandia, Assoc. Prof. Ts. Gigineishvili, B. Partskhaladze, PhD. students – T. Kvaratskhelia, N. Kraveishvili,

K. Kankava

Department of Roentgenology

Head – Prof. O. Urushadze

1.Effect of Radiofrequency Thermal 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 - Assoc. Prof. N. Kikodze, principal Scientist M. Iobadze, Assoc. Prof. N. Janikashvili, Assoc. Prof. I. Pantsulaia, PhD. student N. Toria

Department of Interventional Radiology

Head – Prof. M. Mizandari

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

PhD_F_17_46

2016-2019

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

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

Department of Propedeutics of Neural Diseases and Topical Diagnosis

Head – Prof. M. Beridze

1. International, Randomized, Placebo-Controlled 3rd Phase Scientific Clinical Study of Tranexamic Acid for Intracerebral Hemorrhage (TICH-2 Trial).

2013-2018

Scientific-research funded by foreign grant

University of Nottingham, UK

Research personnel:

Principal Investigator – Prof. M. Beridze. Investigators – Assoc. Prof. O. Samushia, Assist. Prof. E. Devidze. Coordinator – T. Losaberidze. Data manager – N. Khizanishvili

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:

Supervisor – Prof. M. Janelidze. Investigator – A. Dzagnidze

Department of Oncology
Head – Prof. R. Gvamichava

1. Popularization of Healthy Lifestyle and Screening Programmes in the Municipality of Akhmeta.

2017-2018

Research personnel:

Organization "Alvani 2000", Georgia

2. Working towards Raising Public Awareness and Improving legislation in order to Enhance Quality and Availability of Paliative Care and Pain Management as a Component of Unitary Health Care System

2017-2018

Research personnel:

Prof. I. Abesadze.

Oncoprevention Center, Georgia

3. Study of Chronobiological Approaches and New Biomarkers of Biological Rythms in Patients with Complete Desynchronosis

2017-2021

Scientific-research funded by foreign grant

Research personnel:

Principal Investigators – Assoc. Prof. A. Tavartkiladze, Prof. G. Simonia, R. Khutsishvili

4. Genetic Characteristics and Gene Polymorphysm 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

5. 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

6.Study of Genetic Polymorphism of Oncological Diseases and Primary Arterial Hypertension in Caucasian Region

2017-2021

Scientific-research funded by foreign grant

Research personnel:

Principal Investigators – Assoc. Prof. A. Tavartkiladze, Prof. G. Simonia

7.Bioactivation of Cellular Immunity with the Caucasian Hemagglutinins

Scientific-research funded by foreign grant

2017-2021

Research personnel:

Principal Investigators – Assoc. Prof. A. Tavartkiladze, N. Okrostsvaridze, R. Khutsishvili

Department of Infectious Diseases

Head – prof. E. Vashakidze

1.Hepatitis C Elimination State Programme

2015-2020

Scientific-research funded by foreign grant

WHO, pharmaceutical company Gilead

Research personnel:

Department of Infectious Pathology, TSMU

2..Investigation of the Efficacy of New Drug Ozanimod for the Treatment of Inflammatory Bowel Diseases, Crohn’s Disease and Ulcerative Colitis

2018-2023

Scientific-research funded by foreign grant

Ceelgen-USA

Research personnel:

Principal investigator – Prof. E. Vashakidze, investigator-Assist.Prof.T. Megrelishvili

Department of Pulmonary Diseases

Head – Prof. K. Vacharadze

1.Effect of Anti TB Treatment Regimen Adequacy on the Treatment Process and Outcome

2017-2020

Research personnel:

Supervisors – Prof. K. Vacharadze, PhD. Student N. Solomonias

2.New Bronchoscopic Treatment Methods for Tuberculosis and Pulmonary Diseases, Their Complications and Large Residual Changes

2017-2020

Research personnel:

Supervisors – Prof. K. Vacharadze, PhD. Student D. Chkonia

3.Isolated and Lung Associated Genital TB in Georgia

2018

Research personnel:

Supervisors – Prof. K. Vacharadze, Prof. N. Kintraia. PhD. Student G. Lortkipanidze

Department of Urology

Head – Prof. D. Kochiashvili

1. Infrared Radiation Based New Medical Device for Visualization and Diagnosis of Prostate Cancer at an Early Stage

Scientific-research funded by Shota Rustaveli National Science foundation grant
2015-2018

Research personnel:

Assist. Prof. A. Khuskivadze

2. Visualization of Prostate Cancer at an Early Stage of Development

International Center for Science and Technology

project #-G-2188

2015-2018

Scientific-research funded by foreign grant

Research personnel:

Assist. Prof. A. Khuskivadze, Prof. D. Kochiashvili

Department of Pediatric Surgery

Head – Prof. M. Buadze

1. Allegran DUR 001-3062 სწი

2017-2018

Scientific-research funded by foreign grant

Research personnel:

Prof. M. Buadze

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. Invastigators - 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 of the Posterior Part of the Circle of Willis during Intracranial Hemorrhage

2015-2019

Research personnel:

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

Department of Family Medicine

Head – Prof. G. Javashvili

1.Development of Pediatric Long-term and Paliative Care in Georgia

2017-2019

Scientific-research funded by foreign grant

Caritas Czech Republic in Georgia

Research personnel:

Prof. G. Javashvili, G. Kiknadze, Assoc. Prof. N. Kiknadze

2. Emory-Georgia TB Research Training Program
2014-2019

Scientific-research funded by foreign grant

NIH Fogarty International Center, USA

Research personnel:

Prof. G. Javashvili

3. UNFPA. Development of 2004 Guideline Based Clinical Protocol for the Management of Rape Victims in Emergency Situations WHO/UNHCR
2018

Scientific-research funded by foreign grant

Research personnel:

Prof. N. Kiknadze

Department of internal medicine #2

Head – Prof. A. Kistauri

1. Peculiarities of Heart Remodeling in Patients with Metabolic Syndrome

Medicine, Cardiology

2018-2021

Research personnel:

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

2. Clinical-Pharmacological Basis of Aliskerin Use in Diabetes Patients with Peripheral Neuropathy

2016-2018

Research personnel:

PhD. student A. Archvadze

Department of Internal Medicine #3

Head – Prof. D. Gordeladze

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

2016-2019

Research personnel:

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

4. 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

5. 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: Partisipant – Z. Kirtava

Department of 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 Maxillofacial Surgery

Head – Prof. Z. Gvenetadze

1.Issues of Optimal Surgical Treatment of Cranial Trauma Combined with Upper and Middle Zone Facial Injuries

2015-2018

Research personnel:

Supervisors -Prof. Z. Gvenetadze, Prof. G. Ingorokva. Phd. Student G. Lagvilava

Faculty of Pharmacy

Department of Pharmaceutical Technology

Head – Prof. A. Bakuridze

1.№PhDF2016_156

2016-2018

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Supervisors -Prof. A. Bakuridze, Prof. T. Murtazashvili, PhD. Student T. masyukovich

2.№PhDF2016_157

2016-2018

Scientific-research funded by Shota Rustaveli National Science Foundation grant

2016-2018

Research personnel:

Supervisors -Prof. A. Bakuridze, Prof. I. Machutadze, PhD. Student N. Tetemadze

Department of Pharmaceutical and Toxicological Chemistry

Head - Prof. T. Murtazashvili

1. Investigation of Silt-Peloids Prevalent in Several Lakes of Adjara Region for Balneological Purposes.

Medical and Health Sciences, Pharmacology, pharmacy

2016-2018

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

PhD. Student T. Masyukovich

Department of Physical medicine and Rehabilitation

Department of Physics, Biophysics 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

Faculty of Public Health

Department of Hygiene and Medical Ecology

Head – Prof. N. Vepkhvadze

1.Epidemiologic Characteristics of Bloody Diarrhea of Various Etiology Associated with Hemolytic-Uremic Syndrome and its Prevention in Georgia

Public Healthcare, Epidemiology, Hygiene

2015-2018

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

TSMU Bakhutashvili Institute of Medical Biotechnology
Head – Director Assoc. Prof. I. Pantsulaia

1.Laboratory of Biomedicine

The Role of Regulatory T cells and Cytokines in the Pathogenesis of Rheumatoid Arthritis.

Medicine, Immunology, Rheumatology

2014-2019

Scientific research funded by state research support program

Research personnel:

Supervisor - Assoc.Prof N. Kikodze. Investigators – Principal Scientist M. Iobadze, Senior Scientist N. Kukuladze

2.Laboratory of Immunorehabilitation

Study of AgeRelated Inflammatory Markers in Georgian Population.

Medicine, Gerontology, Immunology

2014-2019

Research personnel:

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

3.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

4. 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

5. 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

6. 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

7. 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

8. 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

9. 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

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.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

TSMU Kutateladze Institute of Pharmacochimistry

Head – Director Prof. N. Gorgaslidze

1.Investigation of Pharmaceutical Value of Northern Forest Polypores

2016-2018

International Scientific research

Scientific research funded by FauneNord, Canada

Research personnel:

Legault J., André Pichette, V. Mshvildadze.

2. Chemical and Enzymatic Synthesis of Analogues of *Symphytum* Biopolymers

2018

International Scientific research funded by Bureau of Educational and Cultural Affairs of the US Department of State. Fulbright program. Host Organization - New York State University

Research personnel:

Senior Scientist M. Merlani

3. Development of Functional Macromolecular Materials

2018-2019

International scientific research

Hokkaido University Research Promotion Fund. Host Organization - Hokkaido University Institute for Catalysis

Sapporo, Japan

Research personnel:

Senior Scientist M. Merlani

4 Phytochemical and Biological Study of Georgian Endemic Species *Daphne glomerata Lam.*

PhD_F_17_34

2017-2020

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

PhD. Student G. Moshiashvili

5. Anticancer Effects of Plant Based Caffeic Acid Derived Polyether, Its Synthetic Monomer and Methilated Derivative of its Synthetic Analogue

MG_TG-18-126

2018

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

Supervisor – V. Barbakadze

6. Synthesis of Potentially Bioactive Nitrogen Containing 5 α -Steroids and Their Pharmacological Study.

N $^{\circ}$ 217560

2016-2018

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

Supervisor – N. Nadaraia, Coordinator N. Barbakadze, M. Kakhbrishvili

7. Potentially Bioactive Steroid Nitrogenous Compounds

N $^{\circ}$ YS-2016-51

2016-2018

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

N. Nadaraia, N. Barbakadze

8. Pharmacological Potential of Plant Polymers for the Prevention and Treatment of Gastric Ulcer

Mg-TG-18-1734

2018

Scientific-research funded by Shota Rustaveli National Science foundation grant

Research personnel:

Supervisor – K. Mulkijanian

9. Screening Plants Growing in Georgia for Lipids and Anthraquinones with the Purpose of Their Usage as Bioactive Additives

2014-2023

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist D. Turabelidze,

Senior Scientist B. Kikalishvili, Senior Scientist Ts. Sulakvelidze, Scientist M. Malania

10. Identification and Study of Bioactive Phenolic Compounds in Species of Georgian Flora.

2014-2024

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist M. Alania, Senior Scientist K. Shalashvili, Senior Scientist

T. Saghareishvili, Scientist N. Kavtaradze, Scientist M. Sutishvili

11. 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

12. Phytochemical and Biological Study on Plants Containing Bioactive Terpenes (Mono, Di, Tri, Tetra and Sesquiterpenes) and on Newly Identified Promising Plants Prevalent in Georgia. Pharmacy

2014-2023

Scientific research funded by state research support program

Research personnel:

Senior Scientist Z. Kemoklidze, Senior Scientist V. Mshvildadze

13. Development of Enzymatic Medications.

2014-2023

Scientific research funded by state research support program

Research personnel:

Senior Scientist G. Erkomaishvili

14. *Description of extracts and enriched fractions of Astragalus falcatus, A. borissovae, Ononis arvensis, Rhododendron flavum, Rh. ponticum, Rh. caucasicum; Salvia gereji by HPLC.*

Validation of Methods of Analysis for Gels Containing Proteolytic Anzyme Complex Bromelain. Comperative Description of Elastase Activity.

Screening Samples Obtained from *Anchusa italica* and *Symihytum asperum* on Monocarbohydrate Content

Study of Low Molecular Fractions Isolated from *Anchusa italica* and *Symphytum asperum*, HPLC and Determination of Specific Rotation of a Polymer.

GC and HPLC of Fractions Obtained from Aerial and Underground Parts of *Senecio Vernalis*.

Development of Methods of Analysis for Watery Extract of Underground Part of *Cyclamen* sp. HPLC of Liposomal Preparation of Leucobentin.

HPLC and Spechtrophotometry of Fractions Isolated from Flowers of *Yucca gloriosa*.

Study of the Sum of Neutral Lipids Isolated from *Laurus Nobilis* and *Vitis vinifera* with GC.

Study on Extracts and Enriched Fractions of *Aconitum Orientale, A. nasutum, Vinca herbacea, V. minor, Peganum harmala, Chelidonium maius* with GC.

Development of Methods of Analysis for Watery Extract of *Cephalaria gigantea*.

Study of the Sum of Neutral Lipids Isolated from the Roots of *Cichorium intibus* and *Physalis alkakengi* with GC, HPLC and Mass Spechtrometry of Synthetic Steroid Compounds.
2018

Scientific research funded by state research support program

Research personnel:

Principal Scientist M. Getia, Scientist G. Moshiashvili

15. Screening for Bioactive Biopolymers in Plants of Georgian Flora and Obtaining Their Synthetic Analogues with the Purpose of Therapeutic Product Development. Chemical and Enzymatic Synthesis of Bioactive Compounds. Pharmacological Study of Bioactive Compounds.

2018

Scientific research funded by state research support program

Research personnel:

Senior Scientist M. Alania, V. Barbakadze

16. Synthesis of Nitrogenous Steroid Compounds and Study of Their Properties. Organic Chemistry. Steroid Chemistry. Chemical Synthesis of Bioactive Compounds. Pharmacological Study of Bioactive Compounds.

2018-2022

Scientific research funded by state research support program

Research personnel:

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

17. Developing Formulations and Laboratory Technologies for New Effective Treatment and Preventive Medications with the Help of Bioactive Organic and Inorganic Substances

2018-2022

Scientific research funded by state research support program

Research personnel:

Supervisor - Principal Scientist G. Tsagareishvili.

Senior Scientist L. Tsiklauri, Scientist M. Orjonikidze, Scientist D. Lagazidze

18. Receiving Treatment and Cosmetic Products from Mud "Akhtala" and Developing Their Standardization Methods. Developing Bioactive Additives and Cosmetic Products from Natural Resources of Georgia.

2018-2023

Scientific research funded by state research support program

Research personnel:

Supervisor – P. Yavich

19. Identification of Bioactivity of Natural, Chemically Modified and Synthetic Compounds and Their Preclinical Study

2018-2023

Scientific research funded by state research support program

Research personnel:

K. Mulkiyanian, M. Sulakvelidze, N. Gogitidze, N. Mushkiashvili, J. Novikova

20. 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

2018-2023

Scientific research funded by state research support program

