

Tbilisi State Medical University
Current and Accomplished Scientific-Research Projects
2021

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

Department of Child Neurology

Head - Prof. S. Bakhtadze

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, Prof. S. Bakhtadze. PhD. Student N. Cholokava

3. Characteristics of Cognitive Evoked Potentials and Attention Parameters in Children and Adults with Internet Addiction Disorder

2021-2024

Research personnel:

Supervisor - Prof. S. Bakhtadze. Consultant - Prof. I. Kvachadze.

PhD. Student T. Nadiradze

4 The Role of Inflammatory Cytokines in Various Forms of Epilepsy in Children

2021-2024

Research personnel:

Supervisor - Prof. S. Bakhtadze. PhD. Student T. Gakharia

5. 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 - Prof. S. Bakhtadze. Participants – Prof. N. Geladze, Assoc. Prof. N. Khachapuroidze

6. 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

2020-2022

Scientific-research funded by foreign grant

Pharmaceutical company UCB, USA

Research personnel:

Supervisor - Assoc. Prof. S. Bakhtadze

7. Study to Investigate Longterm Safety, Tolerability and Efficacy of Brivaracetam in Participants from 2 to 25 Years of Age with Childhood and Juvenile Absence Epilepsy

2021

Scientific-research funded by foreign grant

Pharmaceutical company UCB, USA

Research personnel:

Supervisor - Assoc. Prof. S. Bakhtadze

8. Open-Label, Uncontrolled Study to Evaluate Pharmacokinetics, Pharmacodynamics, Safety and Activity of Efgartigimod in Children from 2 to less than 18 Years of Age with Generalized Myasthenia Gravis

2021

Scientific-research funded by foreign grant

Research personnel:

Supervisor - Prof. S. Bakhtadze

9. 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)

2016-2021

Scientific-research funded by foreign grant

Pharmaceutical company UCB, USA

Research personnel:

Supervisor - Prof. S. Bakhtadze

Department of Hematology

Head - Prof. A. Shengelaia

1. The Role of Genetic Instability in early and Late Complications of Childhood Leukemia

Hematology, Medical Genetics

2020-2023

Research personnel:

Supervisor - Prof. A. Shengelaia, Prof. a. Zedegenidze. შენგელაია, პროფ. ა. ზედგენიძე.

Consultant – G. Ormotsadze. PhD student Jashiashvili

Department of Pediatric Surgery

Head – Prof. M. Buadze

1. Optimization of Minimally Invasive Endoscopic Treatment for Surgical Diseases Accompanied by GI Tract Bleeding in Children

Research personnel:

PhD student N. Buadze

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

2017-2020

Scientific-research funded by foreign grant

Allergan Ltd.

Research personnel:

Principal investigator Prof. A. Buadze. Investigators – Assoc. Prof. A. Kutubidze, Assist. Prof. V. Talakvadze

3. Phase 3, Randomized, Comparator Controlled Trial of the Safety and Efficacy of MK-1986 (Tedizolid Phosphate) and Comparator in Subjects from Birth to <12 Years of Age with Acute Bacterial Skin and Skin Structure Infections (ABSSSI)

2021 – 2023

Scientific-research funded by foreign grant

Exel/CO Merck Sharp and Dohme. Corp

Research personnel:

Principal investigator Prof. A. Buadze. Investigators – Assoc. Prof. A. Kutubidze, Assist. Prof. V. Talakvadze

4. Exploratory, Multicenter, Randomized, Double Blind Study of Clinical Outcomes, Tolerability and Safety of 2 Doses of Oral Pantoprazole in Pediatric Participants Aged 1 to 11 Years and 12 to 17 Years who Require Maintenance Therapy for Healed Erosive Esophagitis

2021 - 2023

Scientific-research funded by foreign grant

Research personnel:

Principal investigator Prof. A. Buadze. Investigators – Assoc. Prof. A. Kutubidze, Assist. Prof. V. Talakvadze

**Department of Pediatric Ophthalmology
Head – Prof. D. Shengelia**

1. Vascular Density of the Retina and Choriocapillaries in Myopic Children Measured by Optical Coherence Tomography Angiography. Medicine

2021-2024

Research personnel:

Supervisor – prof. D. Shengelia

2. Medical Biodegradable Glue

Ophthalmology, stomatology, pharmaceutical technologies

2018 - underway

Research personnel:

Prof. D. Shengelia, Prof. A. bakuridze, prof. B. Shengelia, I. Gogashvili

1. Effect of Immune Checkpoint inhibitors on Thyroid Gland Structure and Function in malignant Tumour Therapy

Immunology, endocrinology

2021-2024

Research personnel:

Supervisors - Prof. M. Gordeladze, Assoc. Prof. N. Kikodze. PhD. Student K. Lomidze

2. Multicenter, Open-label Trial to Study Safety and Efficacy of 1.0 mg/kg Single Oral Dose of Macimorelin Acetate as Growth Hormone Stimulating Test (GHST) in Pediatric Patients with Growth Hormone Deficiency – DETECT. AEZS-130-P02 D-60314

2021-underway

Scientific-research funded by foreign grant

Research personnel:

Supervisor - Prof. M. Gordeladze, Investigator – M.Pkhaladze

3.Phase 3 Multicenter, Open-Label, Extended Clinical Trial to Study Safety and Efficacy of Weekly TransConhGH in Children with Growth Hormone Deficiency (GHD) who finished Initial TransConhGH Clinical Trial GT-301EXT

2018- underway

Scientific research funded by foreign grant

Ascendis Pharma, Hellerup, Denmark

Research personnel:

Supervisor - Prof. M. Gordeladze. Investigator – M.Pkhaladze

4.Interventions for Early Prevention and Management of Diabetes Complications

2019-2022

Scientific research funded by foreign grant

The World Diabetes Foundation,Lions Clubs International (USA, Denmark)

Research personnel:

Administrator – Assoc. Prof. N. Charkviani

Department of Immunology
Head – Prof. T. Chikovani

1. Prognostic Biomarkers for Successful Treatment of Rheumatoid Arthritis. Medicine, Immunology, Rheumatology

2020-2024

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 the Various Inflammatory and Vasoactive Mediators in the Peripheral Blood of Patients with Chronic Spontaneous Urticaria

2021-2023

Scientific-research funded by Shota Rustaveli National Science Foundation Grant

Research personnel:

Supervisors – Prof. T. Chikovani, M. Gotua. Investigators - Assoc. Prof. I. Pantsulaia, Assoc. Prof. N. Janikashvili, Assoc. Prof. N. Kikodze

Department of Clinical Skills and Multidisciplinary Simulation

Head – Prof. I. Manjavidze

1. EPPKA2 (Key Action 2) – Cooperation for the Exchange of Innovations and Best Practices

2020-2023

Scientific research funded by foreign grant

Research personnel:

Prof. I. Manjavidze, Assoc. Prof. K. Nozadze, Assist. Prof. D. Chitaishvili

Department of Medical History and Bioethics

Head – Prof. R. Shengelia

1. Georgian Traditional Medicine: Research, Analysis and Prospects of Its Implementation in Modern Medicine

2010-2030

Research personnel:

Supervisor – Prof. R. Shengelia. N. Khelaia, M. Gurgenedze, E. Sanikidze, L. Jojua

2. Molecular Anthropological and Paleopathological Study of the Modern Population of the Caucasus and Bioarchaeological Samples

2012-2027

Research personnel:

Supervisor – Prof. R. Shengelia. M. Gurgenedze, M. Chkadua, L. Jojua

3. Bioethics and Healthcare Systems

2015-2025

Research personnel:

Supervisor – Assoc. Prof. B. Mamulashvili, M. Gurgenedze, E. Sanikidze, N. Kiparadze, T. Pantsulaia

**4. Unified Database and Evaluation Systems of Georgian Traditional Medicine #FR-21-28259
Medicine Pharmacy**

2022-2024

Scientific research funded by Shota Rustaveli National Science Foundation Grant

Research personnel:

Supervisor – Prof. R. Shengelia. Prof. D. Berashvili. Coordinator – T. Gogolashvili.

5. Study on Modern Human Population History and Dynamics. Genome Analysis of Georgian Population of the South Caucasus

Biology, Medicine

2021-2026

Scientific research funded by foreign grant

US National Science Foundation #182 4826

Research personnel:

Supervisor – Prof. R. Shengelia. Prof. L. Bitadze, D. Chitava. PhD student Sh.

Department of Microbiology

Head – Prof. D. Chikviladze

1.laboratory Monitoring and Genetic Description of Bacterial Resistance in Georgia

2021-2024

Research personnel:

Assoc. Prof. T. Didbaridze

2. Susceptibility Testing of Enterobacterales and Pseudomonas aeruginosa Isolates with Diffusion Disks

2021

Research personnel:

Assoc. Prof. T. Didbaridze

Department of Propedeutics of Neural Diseases and Topical Diagnosis

Head – Prof. M. Beridze

1.Genetic Basis of Amyotrophic Lateral Sclerosis and Prospects of Modification

2020-2023

Scientific-research funded by foreign grant

University College London Quuen Square, Neurogenetics Laboratory Grant, UK

Research personnel:

Supervisors - Prof. M. Beridze, Prof. Henry Houlden. Genetic consultant - Assoc. Prof.

E. Kvaratskhelia. PhD. Student M. Kekenadze

Department of Pathophysiology

Head - Prof. N. Pavliashvili

1.Antihypertensive Effects and Mechanisms of Urotenzin II Receptor Antagonist Palosuran in Experimental Arterial Hypertension. Medicine, Pathophysiology

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. Medicine, Pathophysiology

2019-2022

Research personnel:

Supervisor – Assoc. Prof. K. Gambashidze

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

2019-2021

Research personnel:

Supervisor – Assoc. Prof. – K. Gambashidze

Department of Obstetrics and Reproductive Health

Head – Prof. Z. Bokhua

1. Phase 3, Multicenter, Double-Blind, Randomized, Controlled Clinical Trial to Study Contraceptive Mifepristone Daily Dose of 50 mg.

2020-2023

Scientific-research funded by foreign grant

Trial Sponsor Women on Web International Foundation, a non-profit Organisation registered in Canada since 2005

Research personnel:

Prof. Z. Bokhua, Prof. T. Asatiani

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.

Biomedical sciences, Molecular and medical genetics

2020-2025

Research personnel:

Supervisors - Prof. T. Tkemaladze, Prof. E. Abzianidze. Investigators - Assoc. Prof. E. Kvaratskhelia. Asst. Prof. M. Zarandia. PhD. Student N. Kraveishvili

2.Genetic and Epigenetic Modifiers of Monogenic Modifiers.

Human genetics, medical genetics

2020-2025

Research personnel:

Supervisor - - Assoc. Prof. E. Kvaratskhelia. Investigators - Prof. T. Tkemaladze, Prof. E. Abzianidze, Asst. Prof. M. Zarandia. PhD. Student M. Ghughunashvili

3.Identification of Tumor Susceptibility Loci. Human genetics, medical genetics

2021-2025

Research personnel:

Supervisor – Assoc. Prof. K. Kankava. Mentor - Assoc. Prof. E. Kvaratskhelia. Investigator - Asst. Prof. M. Zarandia. Consultant - Prof. E. Abzianidze

Department of Forensic Medicine

Acting Head – Assoc. Prof. R. Beriashvili

1.Morphology of Antemortem and Postmortem Bone Fractures.

Forensic Medicine, Pathological Anatomy

2017-2021

Research personnel:

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

2017-2022

2.Expert Analysis of Electrical Injury. Forensic medicine

2018-2021

Research personnel:

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

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: Prof. R. Beriashvili

Department of Ocular Diseases

Head – Prof. M. Dvali

1.Comparative Clinical Analysis of Acrylic Hydrophobic and Hydrophilic Intraocular lenses in Cataract Surgery. Ophthalmology

2018-2021

Research personnel:

Supervisor - Prof. M. Dvali. PhD student - O. Tsertsvadze

2.Interventions for Early Prevention and Management of Diabetes Complications

2019-2022

Scientific research funded by foreign grant N BDG16227/UND

The World Diabetes Foundation, Lions Clubs International (USA, Denmark)

Research personnel:

Supervisor - Assoc. Prof. N. Karanadze. Coordinator – Asst. prof. T. Kilasonia

Department of Urology

Head – Prof. D. Kochiashvili

1.Phase 3, Randomized, Open-label, Controlled Study of Cabozantinib (XL184) in Combination with Atezolizumab versus a Second NHT in Patients with Metastatic Castration Resistant Prostate Cancer

2020-2023

Research personnel:

Principal investigator- Assist. Prof. A. Khuskivadze. Investigator- Prof. D. Kochiashvili

2. Randomized, Open-label, Controlled Study of Efficacy and Safety of UGN-102 in Patients with Low Grade Intermediate Risk Non-Muscle Invasive Bladder Tumor or TURBT. (LG IR-NMIBC) (ATLAS).

2021-2024

Research personnel:

Principal investigator- Asst. Prof. A. Khuskivadze. Investigator- Prof. D. Kochiashvili

3. Multicenter, Open-label, Controlled, Parallel Group Clinical Trial to Study Home Use Local Gel MED3000 and Peroral Tadalafil 5 mg Tablets for 24 weeks' Treatment Course of Erection Dysfunction (ED)

2021-2022

Research personnel:

Principal investigator- Prof. D. Kochiashvili. Investigator-Asst. Prof. A. Khuskivadze.

Department of Pediatric and Adolescent Medicine

Head – Prof. K. Pagava

1. Familial Mediterranean Fever in Georgia. (Register, Genetic Spectrum, Clinical Peculiarities)

Pediatrics, Epidemiology, Genetics

2020-2022

Research personnel:

Supervisor – Prof. K. Pagava

2. Age Specific Approach to Diagnosis and Management Optimization of Rheumatoid Arthritis.

Pediatrics, Rheumatology

2021-2024

Research personnel:

Supervisor – Prof. K. Pagava. PhD student M. Tsutskiridze

3. Global Point Prevalence Survey (Global-PPS) on Antimicrobial Consumption and Resistance.

Pediatrics, Epidemiology

Underway from 2015

Scientific-research funded by foreign grant: Merieux

Research personnel:

Supervisor – Prof. K. Pagava. Coordinator – Asst. Prof. I. Korinteli

Faculty of Dentistry

Department of Odontology

Head - Prof. M. Mamaladze

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

Dentistry, odontology, endodontics

2019-2023

Research personnel:

Supervisor – Assoc. Prof. N. Nijaradze, K. Shalashvili. PhD student T. Shavadze

Department of Orthodontics

Head - Prof. T. Mikadze

Humoral Immunity of the Oral Cavity in Orthodontic Treatment of Malocclusions

2020-2023

Research personnel:

Prof. T. Mikadze, Prof. I. Kvachadze, Assoc. Prof. I. Pantsulaia. Phd student N. Orjonikidze

Faculty of Public Health

Department of Hygiene and Medical Ecology

Head – Prof. N. Vepkhvadze

1. Algorithm and Efficacy of Introducing the Model of Entrustable Professional Activities in the Curriculum of Undergraduate Medical Education

2020-2023

Research personnel:

Supervisors - Prof. N. Vepkhvadze, Prof. G. Simonia. PhD student S. Voronova

2. Radiation Load of Tbilisi Population, Oncological Morbidity, Predicted Long-Term Effects and their Prevention

2021-2024

Research personnel:

Supervisors - Prof. N. Vepkhvadze, Asst. Prof. T. Kochoradze-Marghishvili. PhD student

T. Saganelidze

3. Characteristics of HCV Epidemic in Tbilisi Population and Effectiveness of Treatment and Prevention Measures for the Elimination of the Disease

2018-2021

Research personnel:

Supervisors - Prof. N. Vepkhvadze, Prof. T. Tsertsvadze. Consultant – I. Mchedlishvili. PhD student K. Stvilia

4. Significance of Qualitative Parameters of Atmospheric Air for the Policy of Air Quality Improvement in Tbilisi

2021-2024

Scientific-research funded by foreign grant

The Emory-Georgia Clean Air Research and Education (CARE) Program. D43 ES030927-01

Research personnel:

Supervisors – Assoc. Prof. N. Kiladze, E. Bakradze. PhD student – T. Kashibadze

5. Epidemiological, Behavioral and Social Correlates of Interventions on Tobacco Smoking

2021-2024

Scientific-research funded by foreign grant

The Emory-Georgia Clean Air Research and Education (CARE) Program. #49777-NCDC

Research personnel:

Supervisors – Prof. L. Baramidze, Assoc. Prof. N. Kiladze. PhD student T. Mamatsashvili

Department of Epidemiology and Biostatistics

Head – Prof. I. Mchedlishvili

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

2019-2022

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Coordinator – Assoc. Prof. N. Mebonia

Faculty of Pharmacy

Department of Pharmaceutical Technologies

Head – Prof. A. Bakuridze

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:

Prof. A. Bakuridze, Assoc. Prof. L. Bakuridze, Asst. Prof. L. Ebralidze

2.FR-18-7943 Design, Technology and Biological Assessment of Anticancer in Situ Nanogel

2019-2021

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Asst. Prof. L. Ebralidze

Department of Pharmaceutical Botany

Head – Prof. d. Berashvili

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:

Prof. D. Berashvili, Assoc. Prof. M. Jokhadze, Assoc. Prof. S. Gokadze

Department of Biochemistry

Head – Prof. P. Tushurashvili

1. Phase 3, Double Blind, Randomized, Placebo-Controlled, Multicentre Study to Investigate Tolerability and Efficacy of 2000 mg/kg Research Drug and Standard Therapy and Placebo and Standard Therapy in Patients with C1 Niemann Pick

2020 - Underway

Research personnel:

Principal Clinical Trial Manager-Asst. Prof. N. Jakhutashvili

2. Phase 3, Double Blind, Randomized, Placebo-Controlled Study of a Research Drug in Pediatric Patients with Sickle Cell Disease

2021 - Underway

Research personnel:

Principal Clinical Trial Manager- Asst. Prof. N. Jakhutashvili

3. Phase 3, Double Blind, Randomized, Placebo-Controlled, Multicentre Study to Investigate Safety and Efficacy of a Research Drug in Patients with C3 Glomerulopathy and Immune-Complex-Mediated Membranoproliferative Glomerulonephritis

2019 - Underway

Research personnel:

Principal Clinical Trial Manager- Asst. Prof. N. Jakhutashvili

Faculty of Physical Medicine and Rehabilitation

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

Director - G. Kharebava

1.Prognostic Biomarkers for Successful Treatment of Rheumatoid Arthritis. Medicine, immunology, rheumatology

2020-2025

Scientific research funded by state research support program

Research personnel:

Supervisor – Assoc. prof. N. Kikodze. Investigators – Principal Scientist M. Iobadze, Senior Scientist N. Kukuladze, R. Aprasidze, M. Lemonjava

2.Integrative Study of Biomarkers and Genetic Mutations for the Development of Targeted Colorectal Cancer Therapy

Medicine, Immunology, Oncology

2020-2025

Scientific research funded by state research support program

Research personnel:

Supervisor Assoc. prof. I. Pantsulaia. Senior Scientist A. Aladashvili, Scientist Ts. Atamashvili
Principal Investigator G. Kharebava, N. Chighvinadze, T. Elisashvili

3. Isolation of Bioactive Substances from Human Placenta and Their Study

2020-2025

Scientific research funded by state research support program

Research personnel:

Supervisor - Senior Scientist S. Kupradze. Principal Investigator I. Gvelesiani, Investigator Ts. Gagnidze, E. Vorobiova, N. Mirianashvili, L. Kajaia

4. Prevention and Treatment Qualities of a new Drug in the Experimental Model of Diabetes Mellitus Complications

2020-2025

Scientific research funded by state research support program

Research personnel:

Supervisor – M. Gongadze, Investigators – M. Machavariani, M. Ehlukidze, Z. Bukia

5. Salt-Sensitive Essential Hypertension and Metabolic Syndrome

2020-2025

Scientific research funded by state research support program

Research personnel:

Supervisor – I. Andronikashvili, Senior Scientist D. Labartkava, N. Pantsulaia, S. Tatishvili

6. Isolation of Anticancer Compounds from Plants, Analysis and Study of Their Medical Effects. Medical and health sciences, medical biotechnology, health-related biotechnologies

2020-2025

Scientific research funded by state research support program

Research personnel:

Supervisor – I. Chkhikvishvili, Senior Investigator – M. Esaiashvili, Investigator – N. Gogia T. Meladze, G. Sharashenidze

7. Genetic and Epigenetic Modifiers of Immune Response in Cystic Fibrosis

2020-2025

Scientific research funded by state research support program

Research personnel:

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

8. Thyroid Dysfunction as a Likely Bioindicator of Environmental Pollution with Heavy Metals. Medicine

2020-2025

Scientific research funded by state research support program

Research personnel:

Supervisor - Scientist I. Kharisshrishvili. Principal Scientist N. Dabrundashvili, Scientist Z. Kereselidze, N. Khandratiani

9. Evaluation of Various Inflammatory and Vasoactive Mediators in the Peripheral Blood of Patients with Chronic Spontaneous Urticaria PHDF-21-3221

2021-2023

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Supervisors -Prof. T. Chikovani, M. Gotua. Investigators – Assoc. prof. N. Kikodze, Principal Scientist – m. Iobadze. PhD student B. Kulumbegov

10. The Role of Genetic Mutations and Tumor Associated Macrophages in the Development of Colorectal Cancer Metastasis PHDF-21-1886

2021-2023

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Supervisor- Assoc. prof. i. Patsulaia, Investigator Ts. Atamashvili. M. Gabelia

**TSMU Kutateladze Institute of Pharmacochimistry
Head – Acting Director Assoc. Prof. L. Mskhiladze**

1. Sustainable Development of Phytochemical Science. Screening Plants Growing in Georgia for Lipids, Anthraquinones and Bioactive Compounds for the Purpose of Application to Medicine, Pharmaceutical Practice, Perfumery, Cosmetics and Food Industry.

Field of Science: Pharmacy

Scientific Direction: Phytochemistry, pharmacognosy, pharmaceutical chemistry

2014-2023

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist B. Kikalishvili. Senior Scientist D. Turabelidze, Senior Scientist Ts. Sulakvelidze, Scientist M. Malania

2. Sustainable Development of Phytochemical Science. Screening Species of Georgian Flora for Bioactive Phenolic Compounds for the Purpose of Drug Development.

2014-2023

Scientific Field: Pharmacy

Scientific Direction: Phytochemistry, pharmacognosy, pharmaceutical chemistry

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist M. Alania. Senior Scientist T. Saghareishvili, Senior Scientist K. Shalashvili, Scientist N. Kavtaradze, Scientist M. Sutiashvili

3. Sustainable Development of Phytochemical Science. Study on Significant Raw Bioactive Substance Containing Plants.

2014-2023

Scientific Field: Pharmacy

Scientific Direction: Phytochemistry, pharmacognosy, pharmaceutical chemistry

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist E. Kemertelidze. Senior Scientist L. Gvazava, Senior Scientist M. Benidze, N. Sakvarelidze

4. Sustainable Development of Phytochemical Science. Study on Plants Growing and Cultivated in Georgia on the Content of Pharmacologically Active Terpene Compounds.

2014-2023

Scientific Field: Pharmacy

Scientific Direction: Phytochemistry, pharmacognosy, pharmaceutical chemistry

Scientific research funded by state research support program

Research personnel:

Supervisors – Senior Scientist Z. Kemoklidze, Senior Scientist V. Mshvildadze

5. Sustainable Development of Phytochemical Science. Study on Bioactive Alkaloid Content of Plants Growing in or Introduced to Georgia

2014-2023

Scientific Field: Pharmacy

Scientific Direction: Phytochemistry, pharmacognosy, pharmaceutical chemistry

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist N. Vachnadze. Senior Scientist L. Kintsurashvili, Scientist T. Suladze

6.Sustainable Development of Phytochemical Science. Chemically Modified Stem Bromelain Containing Gel Development

2014-2023

Scientific Field: Biotechnology

Scientific Direction: Phytochemistry, pharmacognosy, pharmaceutical chemistry

Scientific research funded by state research support program

Research personnel:

Supervisor – Senior Scientist G. Erkomaishvili. Senior Scientist L. Nadirashvili

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

2014-2023

Scientific Field: Pharmacobotany

Scientific Direction: Pharmacobotany

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist K. Mchedlidze. Senior Scientist M. Churadze, Scientist J. Aneli

8.Bioactive Additives and Cosmetics

Developing Dermatological Cream and powder Recipe from Bioactive Substances of Georgian Flora, Mineral Waters and Treatment Muds

2014-2023

Scientific Field: Pharmacy

Scientific Direction: Bioactive Additives and Cosmetics

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist P. Yavich. Senior Scientist M. Kakhetlidze, Scientist L. Churadze

9.Developing New Effective Treatment and Preventive Recipes and Laboratory Technologies with Bioactive Organic and Inorganic Substances

Topic1. In Vitro Method Development and Method Optimization for Quantitative Analysis of Robinin Release Analysis from Selected Nanoliposome System

Topic 2. Study on the Prospects of Using Clay Askana in Modern Systems of Drug Delivery in the Body

Topic 3. Recipe and Technology Development for Leukobetin Liposomal Suspension

Topic 4. Recipe and Technology Development for Fatsiphloginum Soft Dosage Form

Topic 5. Technology Development for Obtaining Carica Papaya Protease Containing Liposomes

2014-2023

Scientific Field: Pharmacy

Scientific Direction: Pharmaceutical technology

Scientific research funded by state research support program

Research personnel:

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

10.Sustainable Development of Phytochemical Science. In-Depth Chemical and Pharmacological Investigation of Bioactive Polymers and Their Synthetic Analogues

2014-2023

Scientific Field: Pharmacochemistry

Scientific Direction: Bioactive plant based biopolymer chemistry, plant based biopolymer analogue synthesis, bioactivity of plant based biopolymers and their synthetic analogues

Scientific research funded by state research support program

Research personnel:

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

11.Sustainable Development of Phytochemical Science. Potentially Bioactive Compound Synthesis from Tigonins obtained from *Yucca Gloriosa* and their Pharmacological Investigation. Modified Epiandrosterone Hydrazone Synthesis.

2014-2023

Scientific Field: Chemistry

Scientific Direction: Physiologically active Compound Synthesis

Scientific research funded by state research support program

Research personnel:

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

12.Analysis and Standardization of Bioactive Compounds, extracts, Substances and Dosage Forms

2014-2023

Scientific Field: Chemistry

Scientific Direction: Pharmaceutical Chemistry

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist M. Getia. Scientist G. Moshiashvili

13.Screening for Bioactivity of Natural, Chemically Modified and Synthetic Compounds and their Preclinical Investigation

2014-2023

Scientific Field: Pharmacology, Toxicology

Scientific Direction: Pharmacology, Toxicology

Scientific research funded by state research support program

Research personnel:

Supervisor – Principal Scientist K. Mulkijanjan. Senior Scientist M. Sulakvelidze,
Scientists: N. Gogitidze, N. Mushkiashvili, J. Novikova

14. Expensive Scientific Machinery and Equipment RIM-2-21-063

2021 - 2022.

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel:

Supervisor L.Mskhiladze

15. New Phytobiotic as an antibiotic Alternative for Poultry, CARYS-19-363

2020 – 2021

Scientific-research funded by Shota Rustaveli National Science Foundation grant

Research personnel: K. Mulkijanian