Tbilisi State Medical University Current and Accomplished Scientific-Research Projects 2020

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. Natela (Nana) Geladze

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.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

4.International, Multicentre, Double Blind, Randomyzed, 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, participants - Prof. N. Geladze, N. Khachapuridze

5.Study to Investigate Longterm Safety, Tolerability and Efficacy of Brivaracetam in Participants with Childhood and Juvenile Absence Epilepsy from 2 to 25 Years of Age 2020-2022

Scientific-research funded by foreign grant

Pharmaceutical company UCB, USA

Research personnel:

Supervisor - Assoc. Prof. S. Bakhtadze

6.International, Multicentre, Double-Blind, Randomyzed, 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, N. Khachapuridze

7. 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 Pediatric and Adolescent Medicine

Head- Prof. K. Pagava

1.Familial Mediterranean Fever in Georgia

2020-2022

Research personnel:

Supervisor- Prof. K. Pagava

Participants:

Association of Patients with FMF and Autoimmune Diseases

Georgia Center for Oncology Research

University of Graz (Austria). Klinisches Institut für Medizinische und Chemische Labordiagnostik

ViennaLab Diagnostics GmbH, Austria

Paediatric Rheumatology

International Trials Organisation (PRINTO). Eurofever Project.

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

2019-2020

Research personnel:

Coparticipant - K. Pagava

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

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 Cytopathology

Head - Prof. R. Beriashvili

1.Erazmus + 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 Urotenzin 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

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

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 Scientis N. Kukuladze, PhD. Student

N. Tsiskarishvili

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

2020-2024

Research personnel:

Supervisor -Assoc. Prof. I Pantsulaia, invastigators - Prof. T. Chikovani, Asst. Prof A. Aladashvili, Ts. Atamashvili , G. Kharebava, N. Chigvinadze, T. Elisashvili

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

Invastigators – 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,

Invastigators - 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, Invastigators - 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 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, invastigators - 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 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, invastigators - 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 Quuen 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. Biochemical Parameters of Biorhythm Desynchronosis in Solid Cancer Patients

2020-2021

Scientific-research funded by foreign grant

Research personnel:

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

2. Isolation of Endemic Caucasian Bacteriophages to Study Bacteriolytic Activity against Multiresistant Hospital Bacteria (Acinetobacter baumannii-carbapenem-resistant, Klebsiella, Escherichia, Proteus, Pseudomonas - Pseudomonas aeruginosa-carbapenem-resistant)

2020-2021

Scientific-research funded by foreign grant

Research personnel:

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

3.Study of chronobiological approaches and new biomarkers of biological rythms in patients with complete desynchronosis

2020-2022

Scientific-research funded by foreign grant

Research personnel:

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

4. 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

5.Genetic Screening for Primary Hepatic Cancer in Patients Infected with HAVBand HC V

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

1. Echocardiographic Basis of Optimized Clinical Management of Patients with Metabolic Syndrome

2018-2021

Research personnel:

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

2. The Role of proprotein Convertase Subtilizin Kexin 9 in the Pathogenesis and Clinical Aspects of Systemic Atherosclerosis

2020-2023

Research personnel:

Supervisor – Prof. N. Kakauridze. PhD. Student N. Khunashvili

3.The Role of Hpylori CagA in the Development and Complications of Gastroenterological and Ischemic Cardiac Diseases

2020-2023

Research personnel:

Supervisor – Prof. N. Kakauridze. PhD. Student Kh. Gargulia

Department of Internal Diseases #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. Chokhonelidze, 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 Promblematic 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 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 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 Clinical Skills and Multidisciplinary Simulation

Head – Prof. I. Manjavidze

1. Simulations for Undergraduates to Improve Quality of Patient Safety and Care

2020-2023

Scientific-research funded by foreign grant

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 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. 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 L. Bakuridze

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. Chincharadze

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. 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:

Principal Investigator - Prof. D. Berashvili, Assoc. Prof. M. Jokhadze, Asst. Prof. S. Gokadze

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. "IMPRESIO" – Pomeranean Medical University Development Project (European Union)

2020-2022

Scientific-research funded by foreign grant

Research personnel:

Lecturer – Prof. T. Sanikidze

3. 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

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 stdent - I. Khabeishvili

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

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

2020-2025

Scientific research funded by state research support program Research personnel:

Supervisors – 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:

Supervisors – Assoc. Prof I. Pantsulaia, Senior Scientist A. Aladashvili, Ts. Atamashvili, Principal Investigator – G. Kharebava, N. Chigvinadze, T. Elisashvili

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

2020-2025

Scientific research funded by state research support program

Research personnel:

Supervisors -E. Kvaratskhelia, Scientist E. Maisuradze, Senior Scientist M. Gagua, M. kamkamidze

4.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, investigators – N. Gogia, M. esaiashvili, T. Meladze, G.Sharashenidze

5. Thyroid Disfunction as a Likely Bioindicator of the Environmental Pollution by Heavy Metals. Medicine

2020-2025

Scientific research funded by state research support program

Research personnel:

Supervisors – Scientist I. Kharischarishvili, Principal Scientist N.Dabrundashvili, Scientist Z.Kereselidze, N. Khandratiani

6.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

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

2020-2025

Scientific research funded by state research support program

Research personnel:

Supervisors – Principal Scientis S. Kupradze, investigators – I. Gvelesiani, Ts. Gagnidze, E. Vorobiova, N. Mirianashvili

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

2020-2025

Scientific research funded by state research support program

Research personnel:

Supervisor – M. Gagnidze, investigators - M. machavariani, M. Enukidze, Z. Bukia

9. 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

10. 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

11.Effects of Radiofrequency Ablation on Immune Response in 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. Mizandariðs, 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

${\bf 1. Sustainable\ Development\ of\ Phytochemical\ Science}$

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 with the Purpose of Application in Pharmaceutical Practice, Cosmetics and Food Processing

2020

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.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

5.Phytochemical Department, Division of Terpenes

I.Phytochemical Study on Terpene Containing Plants Growing and Cultivated in Georgia for Therapeutic and Prophylactic Uses

II.Phytochemical (Pharmacognostic) and Biological (Pharmacological, Toxicological) Study on Terpene Containing Plants Growing in Georgia for Detection of Bioactive Substances 01.2020-01.2021

Scientific research funded by state research support program

Research personnel:

Senior Scientist Z. Kemoklidze, PhD. Students G. Moshiashvili, T. Korkotadze

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

2020

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 *Borago officinalis* Stem High Molecular fractions for Bioactive Polymers Poly [3-(3,4-Dihydroxyphenyl)-glycine]. Screening Low Molecular Fractions of Several Species of *Family Boraginaceae* for compounds involved in the Biosynthesis of Phenolic Biopolymers. Synthesis of Caffeic Acid Derivatives and Study of their Antimicrobial Activity 2020

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

10. Division of Chemical Modification of Natural Compounds

Sustainable Development of Phytochemical Science

Potentially Bioactive Compound Synthesis and pharmacological Study from 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

11. 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

12. Pharmacy, Pharmaceutical Technology, Nanotechnology

Developing New Effective Treatment Dosage Forms 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. Wiklauri, Scientist D. Lagazidze, Scientist M. Orjonikidze

13. Division of Bioactive Additives and Cosmetics

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

14. Screening for Bioactivity of Natural, Chemically Modified and 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

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:

Principal Scientist K. Mulkijanian

16.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

17. Microdistribution of Several Species in Sagene Region for the Assessment for Small Scale Forests

Research Development Fund, University of Quebec University of Quebec

2020-2021

Scientific research funded by foreign grant

Research personnel:

S. Rosi, V. Mshvildadze, J. Lego