2023 state scientific grant call for Fundamental Research

List of winning project proposals

#	Proposal ID	Proposal title	Host Institution & Co-participant organization(s)
1	FR-23-2282	Russia-Ukraine War and Georgia: Local Implications of a Global and Regional Crisis	Ivane Javakhishvili Tbilisi State University
2	FR-23-18809	From the Official History Rejected Memory: Repressions of 1951-1952 in Ajara	Batumi Shota Rustaveli State University
3	FR-23-489	The Role of LAGs in Rural Governance: Political Participation and Decision-Making at the Municipal Level (LAGGo)	Ivane Javakhishvili Tbilisi State University; International Black Sea University, LLC
4	FR-23-1148	Formal institutional variables in relation tothedeterminants of entrepreneurial orientation ofSMEs: contextualization of factors in thespotlightof a countryandorganization characteristics in international entryperformance	Caucasus International University; Institute for Business Research and Education
5	FR-23-4258	Holocene glacier-climate reconstructions in the Greater Caucasus	Ilia State University
6	FR-23-271	Factorizations and homological invariants of algebraic structures: a categorical approach	Ivane Javakhishvili Tbilisi State University
7	FR-23-13630	The depopulation of the rural settlements in Racha (the northern province of Georgia): spatiotemporal changes and modern problems.	Ivane Javakhishvili Tbilisi State University
8	FR-23-17012	Georgia and Antioch	Korneli Kekelidze Georgian National Centre of Manuscripts
9	FR-23-560	Fast photostimulated synthesis and investigation of functional oxide materials	Ivane Javakhishvili Tbilisi State University
10	FR-23-10216	Publication of Academic Two-Volume Edition of the Works by Nikoloz Baratashvili and Preparation of Bilingual (Georgian-English) Digital Chronicle of the Poet's Life and Work	Ivane Javakhishvili Tbilisi State University
11	FR-23-10587	Formation of Prosocial Behavior and Norm in Economics	Laboratory for Economic Behavior Research
12	FR-23-10274	Perception of Georgia and Armenia in Western and Eastern sources (Middle Ages and Early Modern period)	Ilia State University
13	FR-23-2808	Fairy Tale and Music: Intermedial Study of Georgian Narrative and Musical Genres	Ivane Javakhishvili Tbilisi State University
14	FR-23-8490	Jewish Identity in Georgia: The Soviet Transformation (1921-1941)	Ivane Javakhishvili Tbilisi State University
15	FR-23-2950	The Beginning of the Contemporary Georgian Parliamentarianism: The National Council of Georgia-The Parliament of Georgia	Ivane Javakhishvili Tbilisi State University
16	FR-23-779	NONSTABLE K-THEORY FOR TOPOLOGICAL INSULATORS	Ivane Javakhishvili Tbilisi State University

17	FR-23-7109	Daytime sleepiness and performance from adolescence to young adulthood - new insights into the mixed evidence	Ilia State University
18	FR-23-5495	Address Systems in Megrelian and Laz	Ilia State University
19	FR-23-10637	Georgian Family Names in Historical and Ethnolinguistic Context	International Research Institute Folk Caucasus
20	FR-23-488	Adaptation and integration of resettled eco-migrants from the Adjara region into the local communities of Georgia	Batumi Shota Rustaveli State University
21	FR-23-569	Traditional Dwellings in Eastern and Southern Georgia	Giorgi Chubinashvili National Research Centre for Georgian Art History and Heritage Preservation
22	FR-23-8896	Structural architecture of the central Greater Caucasus orogen	Ivane Javakhishvili Tbilisi State University
23	FR-23-6689	Socio-cultural analysis of film documentaries and archival chronicles of Georgian Television: from its establishment to 1991.	Ivane Javakhishvili Tbilisi State University
24	FR-23-20088	Investigation of ecology of Borrelia burgdorferi sensu lato and modeling the distribution of vector species in Georgia – a baseline study for reducing the risk of Lyme borreliosis epidemics in the region	Ilia State University
25	FR-23-6815	Plasma jets in the solar atmosphere	Ilia State University
26	FR-23-9448	Engineering study of debris flow centre areas in the mountainous regions of Georgia	Georgian Technical University
27	FR-23-8692	The French in Georgia and the Reflection of French Literature in Georgian Cultural Space (from 1921 to 1991)	Georgian Comparative Literature Association
28	FR-23-6740	Interdisciplinary Research and Documentation of the Architectural Heritage of Uznadze Street in Tbilisi	Ilia State University
29	FR-23-3345	Tbel Abuserisdze Digital – Biligual Semantic Edition	Batumi Shota Rustaveli State University
30	FR-23-6604	Construction of the Collective Memory in Georgia after Independence: the Discourse of Hero and Antihero	Ivane Javakhishvili Tbilisi State University
31	FR-23-18340	Discourse and history of public lectures in Georgia	David Aghmashenebeli University of Georgia Ltd
32	FR-23-3178	The Fate of the Prisoners of War in Byzantium (8th- 15th c.)	Ilia State University
33	FR-23-9327	Integration of existing data of previous studies on ancient metal and glassware of the South Caucasus into modern science	The Georgian National Museum
34	FR-23-4691	Jackal (Canis aureus) in human-modified landscapes: can we coexist?	Ilia State University
35	FR-23-4304	Comprehensive Study of Neologisms in the Modern Georgian Language and Monitoring their Emergence with Digital Methods	Ilia State University

36	FR-23-5672	"CSR Disclosure, Earnings Management and Corporate Governance: A Georgian Perspective"	Caucasus University
37	FR-23-15040	Ambiguous Loss: Psycho-Social Adaptation in Displacement	Ivane Javakhishvili Tbilisi State University
38	FR-23-4771	Genres of Georgian Traditional Music	V. Sarajishvili Tbilisi State Conservatoire
39	FR-23-21284	The impact of shadow banking on financial stability (Empirical evidence from emerging market economies including Georgia)	TSU Center for Analysis and Forecasting; Grigol Robakidze University Ltd
40	FR-23-5466	Machine Learning Approach to the Landslide Activation Prediction in Georgia	Ivane Javakhishvili Tbilisi State University
41	FR-23-9905	Cave dwelling invertebrates of Georgia - origin, diversity and conservation	Ilia State University
42	FR-23-5538	Some novel models in Algebraic Topology with applications in String Topology	Ivane Javakhishvili Tbilisi State University
43	FR-23-2811	Study of raw materials and production technology of old and new Qvevri	Georgian Technical University
44	FR-23-20196	Overeducation and Labor Market Mismatch in Georgia: Challenges and Ways for their Reduction	Ilia State University
45	FR-23-24319	Mechanistic studies on enantioselective noncovalent selector-selectand interactions using capillary electrophoresis, nuclear magnetic resonance spectroscopy and molecular modelling	Ivane Javakhishvili Tbilisi State University
46	FR-23-10514	Identification of Hot Spots of Earthquake Risk in Tbilisi	Ivane Javakhishvili Tbilisi State University
47	FR-23-1929	Effectiveness of Educational Interventions to Develop Patient Safety Knowledge, Skills, Behaviors, and Attitudes in Nursing Students	The University of Georgia
48	FR-23-22382	The National Platform for Research on New Biological Markers to Optimize Heart Failure Prognosis	HealthCare Innovation and Implementation Research Platfor; Georgian association of Telemedicine and Teleradiology; Georgian Assosiation of Cardiologists
49	FR-23-267	Application of the potential method to mixed and crack type dynamical problems for homogeneous, inhomogeneous and composite elastic structures	Georgian Technical University
50	FR-23-2885	Obtaining a new type of long-acting nitrogen fertilizer containing a functional group	Ivane Javakhishvili Tbilisi State University
51	FR-23-16844	Epistolary Legacy of the Georgian Scientist-Historians / Fundamental Philological-Textual-Historical Studies and Scholarly Edition (Part II)	NNLE - Teaching-Research Institute for Interdisciplinary Humanities
52	FR-23-249	Development of Efficient Method for Analysis and Optimization of Dielectric Post-Wall Waveguide-based Millimeter and Sub-millimeter Guiding Systems and Circuits.	Free University of Tbilisi ; Ivane Javakhishvili Tbilisi State University

53	FR-23-18847	Study of the effects of deep brain stimulation of memory-associated brain regions on behavioral and neurobiological outcomes in an animal model of aging induced by D-galactose	LEPL IVANE BERITASHVILI CENTER OF EXPERIMENTAL BIOMEDICINE
54	FR-23-4905	Investigation of the non-classical problems of the Moore-Gibson-Thompson thermoelasticity and thermoviscoelasticity theories for porous materials	Ilia State University
55	FR-23-8132	Post-bolshevism and Georgian Literature (1956-1991)	Georgian Comparative Literature Association
56	FR-23-13616	Juvenile Justice Code Commentary	Caucasus University
57	FR-23-11405	Crustal Structure of Georgia	Ilia State University
58	FR-23-11173	Erekle II's Relation with Ottoman Empire in 80-90s of the 18th Century (Foreign Policy Opposite to the Terms of Treaty of Georgievsk); Publication of Historical Documents about Georgian-Ottoman Relations Preserved in The Presidency of the republic of Turkey Directorate of State Ottoman Archives	Korneli Kekelidze Georgian National Centre of Manuscripts; Ivane Javakhishvili Tbilisi State University
59	FR-23-1277	Self-sustenance of coherent structures and turbulence in gaseous protoplanetary disks with different configurations	EVGENI KHARADZE GEORGIAN NATIONAL ASTROPHYSICAL OBSERVATORY
60	FR-23-18821	A Novel Mechanism of Pair Creation in Pulsar Magnetospheres and consequent generation of pulsed emission.	Ilia State University
61	FR-23-10719	Stability analysis of solar wind patterns in the vicinity of critical points	Ilia State University
62	FR-23-16026	Hazard assessment and dynamic analyses of the processes of mud and debris flow-prone gorges of Tbilisi area in VR environment - a research concerning climate change	Ilia State University
63	FR-23-9113	Creation of special-purpose, multifunctional composites, and determination of technological parameters	LEPL G.Tsulukidze Mining Institute
64	FR-23-3721	Development of innovative technology for production of whey-based functional lactic acid drink	Akaki Tsereteli State University
65	FR-23-15212	Representation of Abkhaz language functioning and scientific research according to archival materials	Sokhumi State University
66	FR-23-392	Restoration of degraded soils caused by mining	Ivane Javakhishvili Tbilisi State University
67	FR-23-17899	Generating Functional for the S-Matrix in Integrable Quantum Field Theories	Free University of Tbilisi
68	FR-23-15888	Research of the role of additive-modifiers with the synthesis of LECA out of the silicate raw materials	Georgian Technical University

69	FR-23-8279	Development of a methodology for the mechanisms of long-term protection of historical and architectural heritage in the face of climate change	Georgian Technical University; Ivane Javakhishvili Tbilisi State University
70	FR-23-8468	The Reflection of Rustaveli and Nizami in Contemporary Literature and Art	Ivane Javakhishvili Tbilisi State University
71	FR-23-1964	«Preliminary investigation of the Cosmic-Ray Ensemble phenomenology via observation of the remote Extensive Air Showers using operating GELATICA network».	Ivane Javakhishvili Tbilisi State University
72	FR-23-18000	Studying the clinical application potential of the Janashia-Lagvilava algorithm to determine epileptic foci based on relevant quantitative data	T. Geladze Georgian League Against Epilepsy; Caucasus International University
73	FR-23-1931	Synthesis of potential biologically active nitrogen-containing 5α-steroids by modification of tigogenin	Tbilisi State Medical University
74	FR-23-2436	Radioecological characterization of the manganese deposit in Chiatura (West Georgia)	Ivane Javakhishvili Tbilisi State University
75	FR-23-10840	Molecular genetic markers for evolution and migration Research of Georgian domestic animals.	Agricultural University of Georgia
76	FR-23-6375	Minimization of manganese pollution of ecosystems and food products and risks of elemental phenomena in Chiatura municipality aimed to the reduction of soil degradation	Georgian Technical University
77	FR-23-1133	Study of genetic diversity of phytoplasmas associated with grapevine yellows (GY) and support of certificate program of planting materials according to EPPO standard in Georgia	Scientific-Research Centre of Agriculture
78	FR-23-4069	Elaboration of effective method for determination of optical spectra of viral particles	Georgian Technical University
79	FR-23-4522	Bionanocomposites based on silver-containing humic acids as antibacterial and anti-inflammatory agents	Ivane Javakhishvili Tbilisi State University
80	FR-23-2598	Ichnology and Sedimentology of the Middle and Upper Eocene sediments in the Trialeti Ridge (eastern Achara-Trialeti Fold-and-Thrust Belt), Georgia	Ivane Javakhishvili Tbilisi State University
81	FR-23-8035	Forecasting of environmental characteristics of a piston hydrogen engine by 3D mathematical modeling of the turbulent flow and combustion processes	Raphiel Dvali Institute of Machine Mechanics
82	FR-23-856	Renormalisation group, gauge invariance and currents in the effective field theory.	Ivane Javakhishvili Tbilisi State University
83	FR-23-17324	Isolation by distance vs taxonomy: Barcoding and the analysis of Georgia's Herpetofauna	Ilia State University

84	FR-23-3503	At the Origins of Georgian Sports History (Shevardeni Society; 1918-1921)	The Georgian National Museum
85	FR-23-17033	Georgia Between Muslim World and Eurasian Steppe (Political and Economic Relations in the 7th-10th Centuries)	Ivane Javakhishvili Tbilisi State University
86	FR-23-8182	Energy sector security research of Georgia	Ivane Javakhishvili Tbilisi State University; Elizbar Eristavi Energy Training Center
87	FR-23-13674	Repressions of Clergy in Georgia During the Soviet Period (According to the Data of Central and Local Archives)	State Agency for Religious Issues
88	FR-23-8750	The Effect of Ozonation on Chemical Composition of Georgian Red Wines, Vine Materials and Vineyard Soil.	Ivane Javakhishvili Tbilisi State University
89	FR-23-20072	ESPCAL - Encapsulation of Salmonella phages in cationic liposomes	P.Shotadze Tbilisi Medical Academy; G. Eliava Institute of Bacteriophages, Microbiology and Virology
90	FR-23-1938	Are pre- and interictal emotional disturbances in people with epilepsy a protection or a risk factor?	LEPL IVANE BERITASHVILI CENTER OF EXPERIMENTAL BIOMEDICINE
91	FR-23-6916	Speri - a historical-philological study	Batumi Shota Rustaveli State University
92	FR-23-1855	Development of theoretical foundations for calculating the reliability agricultural machinery and innovative technological processes for its increase, taking into account the working conditions in Georgia	Georgian Academy of Agricultural Sciences
93	FR-23-3490	Detection of vectors of plant fungal diseases - bark beetles from the coniferous forests of the resort area of Western Georgia (Guria)	Laboratory of the Ministry of Agriculture of Georgia
94	FR-23-12896	Creation and investigation of magnetic nanoparticle-infused multifunctional biocompatible polymer nanocomposite fibers by electrospinning	Georgian Technical University
95	FR-23-9442	Development of High Efficient Solar Energy Photo-Converting Element Based on Silicon-Graphene Nanosystem.	Micro and Nanoelectronics Institute
96	FR-23-22543	The role of inflammation in Autism Spectrum Disorders	Tbilisi State Medical University
97	FR-23-2770	Behavioral consequences and neurobiological indices of social isolation stress in rats of different social status	LEPL IVANE BERITASHVILI CENTER OF EXPERIMENTAL BIOMEDICINE
98	FR-23-5165	Virulence Phenotyping and Genetic Diversity of Wheat Stem Rust, Leaf Rust and Stripe Rust Populations in Georgia	Batumi Shota Rustaveli State University
99	FR-23-13296	Development of economically profitable, ecologically friendly and low energy consuming technologies for the production of hydrolytic enzymes (xylanase, β-galactosidase)	Agricultural University of Georgia

		of microbial origin, in order to create an enzymatic production in Georgia	
100	FR-23-15732	Development of an environmentally safe composition against grape pests	Ivane Javakhishvili Tbilisi State University; Scientific-Research Centre of Agriculture
101	FR-23-268	Healthy Soil for Food Safety	Ilia State University
102	FR-23-7525	Exploring the Antidepressant Properties of Exogenous L-arginine and Elucidating Its Potential Molecular Mechanisms in the Corticosterone-Induced Depression Model	Ivane Javakhishvili Tbilisi State University
103	FR-23-17030	Botanical, mycological and ethnoecological study of non-perennial stream habitats on the Kvernaki range (East Georgia), as a basis for their long-term monitoring and assessment of ecological restoration feasibility	Ilia State University
104	FR-23-4233	Isolation, Study and Selection of Bacteriophages Specific to Burkholderia cepacia Complex for Potential Use in Clinical Applications.	G. Eliava Institute of Bacteriophages, Microbiology and Virology; The University of Georgia
105	FR-23-1945	Multifunctional bio supplements for functional products from waste remaining after processing subtropical raw material following the model of circular economy	Batumi Shota Rustaveli State University
106	FR-23-21749	Creation of one-dimensional nanostructures based on DNA and polynucleotides by different methods of reduction of copper, silver and gold ions	Ivane Javakhishvili Tbilisi State University
107	FR-23-8060	Introgressing the Georgian Aegilops tauschii genome into soft wheat as a basis for cereal improvement	Agricultural University of Georgia
108	FR-23-11803	Biodiversity of indigenous fermenting yeasts from traditional viticultural regions of Georgia: creation their collection and study metabolic potential for formation of regional wines with specific features	Georgian Technical University
109	FR-23-5951	Assessment of Zhinvali Reservoir Ecosystem using Bioindicators	Ilia State University
110	FR-23-17430	Understanding the Cultural Phenomenon of Artificial Cranial Deformation in the Southern Caucasus: An Anthropological and Genetic study from the Bronze Age to the Early Middle Ages	Ivane Javakhishvili Tbilisi State University
111	FR-23-14629	Nucleic acids quadruplexes for static and dynamic nanotechnologies	Ilia State University
112	FR-23-17198	Examining the Potential of Dapagliflozin in Primary Prevention of Anthracycline-induced Cardiotoxicity	New Vision University