

**Competition for grants in the priority area of RSF activities “Basic Scientific Research and Exploratory Scientific Research
Conducted by International Research Teams” (in cooperation with the National Natural Science Foundation of China - NSFC)**

No.	RSF number	Title	Russian organization	Russian PI	Chinese organization	Chinese PI
1	25-44-02156	High-Throughput Plasma Proteomics for Biomarker Discovery in Chronic Liver Disease	Autonomous Non-Profit Organization for Higher Education "Skolkovo Institute of Science and Technology"	Kononikhin Alexey	Shanghai Institute of Materia Medica, Chinese Academy of Sciences	Hu Zhou
2	25-43-02145	Electronic Communication and Magnetic Bistability in Metal Complexes with Redox-Noninnocent Ligands	Southern Federal University	Starikov Andrey	Beijing Institute of Technology	Yu, M.
3	25-43-02081	Development of simple and quick methods for detection of per- and polyfluoroalkyl substances in food samples based on novel recognition material	Federal State Budget Educational Institution of Higher Education "MIREA - Russian Technological University"	Rodin Igor Alexandrovich	China Agricultural University	Wen Kai
4	25-43-02167	Development of a new methodology and instrumentation for quantitative analyses of isomers on basis of ion mobility and tandem mass spectrometry	Autonomous Non-Profit Organization for Higher Education "Skolkovo Institute of Science and Technology"	Nikolaev Evgeny	Ningbo University	Ding Chuan-Fan

5	25-43-02207	Comparison study on the assessment of the radiological hazard in groundwater along coastal zones in the Crimean Peninsula and Beihai	Federal State Educational Institution of Higher Education "Sevastopol State University"	Bezhin Nikolay Alekseevich	East China Normal University	Jinzhou Du
6	25-45-02127	Multimodal optical microscope for cortex-wide neurovascular coupling study	Federal Research Center A.V. Gaponov-Grekhov Institute of Applied Physics of the Russian Academy of Sciences	Subochev Pavel	Southern University of Science and Technology	Xi L
7	25-46-02010	Remote Sensing of Wheat Residues and the carbon inputs to soils under Field Post-harvest Complex Scene based on satellite and UAV data	Dokuchaev Soil Science Institute	Savin Igor	College of Geological Engineering and Geomatics, Chang' an University	Yang Guijun
8	25-44-02132	Creation of Highly Active Porphyrin/Phthalocyanine-Inorganic Nanozymes and Exploration in Diagnosis and Treatment of Bacterial Infection	Institute of Biochemistry and Physiology of Plants and Microorganisms Russian Academy of Sciences	Guliy Olga	School of Chemical and Biological Engineering, Shandong University of Science and Technology	Qingyun Liu

9	25-43-02210	Shedding new light on the interaction of radiation with living matter: Experimental and theoretical study of radiation-induced intermolecular energy and charge transfer in biologically relevant heterocyclic molecular systems	Irkutsk Institute of Chemistry RAS	Trofimov Boris Alexandrovich	Xi'an Jiaotong University	Ren X.
10	25-44-02018	Long-distance translocation of root-synthesized cytokinins and its regulation by nitrogen and rhizosphere bacteria to enhance plant productivity	Ufa Institute of biology – Subdivision of the Ufa Federal Research Centre of Russian Academy of Sciences	Kudoyarova Guzel	Zhejiang Normal University	Kewei Zhang
11	25-43-02281	Rational design and operando synchrotron-based characterization of advanced electrode materials for low-temperature sodium-ion batteries	Autonomous Non-Profit Organization for Higher Education "Skolkovo Institute of Science and Technology"	Fedotov Stanislav Sergeyevich	Soochow University	Zhang L.
12	25-45-02056	Radiocatalytically active nanozymes for enhancing the effectiveness of tumor radiation therapy	Institute of Theoretical and Experimental Biophysics of Russian Academy of Sciences	Popov Anton Leonidovich	Nanjing University	Hui Wei
13	25-43-02102	Near-infrared room-temperature phosphorescence enhanced via optical resonances	Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University	Fedyanin Andrey	Beijing Institute of Technology	Cai Zhengxu

14	25-44-02015	Investigating the prevalence, and cross-species transmission risk of Avian Influenza Viruses (AIV) in migratory bird populations across China and Russia.	Federal State Budget Scientific Institution «The Federal Research Center of Fundamental and Translational Medicine»	Shestopalov Alexander	Wuhan Institute of Virology, Chinese Academy of Science	Jianjun Chen
15	25-44-02076	Diversity and distribution of Sphagnum species in the peatlands of China and Asian Russia	Main Botanical Garden of Russian Academy of Sciences, Federal State Budgetary Institution of Science Main Botanical Garden named after N.V.Tsitsin Russian Academy of Sciences	Ignatov Mikhail Stanislavovich	East China Normal University	Zhu R.-L.
16	25-43-02158	Green synthesis of InP quantum dots for efficient intrinsic ultra-flexible light-emitting diodes	Federal State Budgetary Educational Institution of Higher Education "Saint-Petersburg State University"	Kukushkin Vadim Yurievich	University of Science and Technology Beijing	Jianjun Tian
17	25-44-02065	The identification and usage of biomarkers of initiation and progression of papillary thyroid cancer with kinase gene fusion (kgf-PTC)	Institute of Molecular and Cellular Biology, Siberian Branch of the Russian Academy of Sciences	Zhimulev Igor	Fudan University	Yu-Long Wang

18	25-43-02058	Next-generation catalysts for molecular editing of organic molecules: from biomimetic transition metal complexes to COFs-based nanozymes	N.D. Zelinsky Institute of Organic Chemistry RAS	Bryliakov Konstantin P	Hebei University of Technology	Wang R.-H.
19	25-43-02029	Metal-Organic Frameworks as Next-Generation Materials for Heavy Water Separation and Detection	Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences	Fedin Vladimir	Beijing Normal University	Han Xue
20	25-43-02073	Target profiling of pancreatic cancer using tetrazoles, oxadiazoles, dioxazolones, and other nitrogen- and oxygen-containing heterocycles as active electrophile generators	Saint-Petersburg State Institute of Technology	Ostrovskii Vladimir Aronovich	Jinan University	Zhengqiu Li
21	25-43-02277	Catalytic Asymmetric Reactions of Vinyl Carbocations	N.D. Zelinsky Institute of Organic Chemistry RAS	Novikov Roman Aleksandrovich	College of Chemistry and Chemical Engineering, Xiamen University	Ye Long Wu
22	25-43-02243	Emissive cyclic trinuclear complexes (CTCs) and CTCs-based CMOFs: Synthesis, photoluminescence property and sensing application.	A.N. Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences	Shubina Elena Solomonovna	Jinan University, College of Chemistry and Materials Science	Ning G.-H.

23	25-43-02194	Construction of single-atom catalysts with specific functions for hydrogen production from biomass	Federal Research Center Boreskov Institute of Catalysis	Parmon Valentin Nikolaevich	University of Electronic Science and Technology of China	Xiang Q.
24	25-44-02157	Targeted and target-agnostic metabolic engineering of plant phenylpropanoid metabolism	Shemyakin - Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences	Yampolsky Ilia V	Zhejiang University, Hangzhou, Zhejiang, China	Hao Du
25	25-45-02092	Identification of novel genes and pathogenic variants involved in neurodevelopmental disorders	Saint-Petersburg State Pediatric Medical University	Imyanitov Evgeny Naumovich	Center for Medical Genetics and Hunan Key Laboratory of Medical Genetics, School of Life Sciences, Central South University, Changsha, Hunan, China	Jinchen Li
26	25-46-02033	Defensive Microbiome Investigation in CBP Invasion and Screening for Cost-Effective Fungal Biocontrol Agents	Federal State Budgetary Educational Institution of Higher Education "Novosibirsk State Agrarian University"	Dubovskiy Ivan	CAS Center for Excellence in Molecular Plant Sciences, Shanghai Institute of Plant Physiology and Ecology, Chinese Academy of Sciences	Chengshu Wang
27	25-43-02156	Multimodal liquid biopsy sensing technologies combined with machine learning for non-invasive cancer screening	ITMO University	Kirsanov Dmitry Olegovich	Zhejiang University	Wan, H.

28	25-44-02045	Signatures of Cardiovascular Deconditioning in Simulated Microgravity and Hypo-magnetic field: Biomarker Discovery and Countermeasure Development	Scientific Center of Russian Federation – Institute for Bio-medical Problems of the Russian Academy of Sciences	Larina Irina	School of Life Science and Technology, Harbin Institute of Technology	Weiming T.
29	25-43-02072	Design of membranes and sorbents empowered by ion-selective organic ligands (ISOL) for extraction of rare metals	Frumkin Institute of Physical Chemistry and Electrochemistry Russian Academy of Sciences	Baulin Vladimir Evgenevich	Shanghai Advanced Research Institute, Chinese Academy of Sciences	He Tao
30	25-44-02096	Study on the Biosynthetic Producing Technology of Polysaccharide-Protein Conjugate Vaccines Against Uropathogenic Bacteria	N.D. Zelinsky Institute of Organic Chemistry RAS	Knirel Yurii	TEDA Institute of Biotechnology, Nankai University, Tianjin Economic-Technological Development Area (TEDA)	Bin Liu
31	25-46-02027	Dissection of genetic basis of multiparental hybrid potato clones with broad-diversity resistance to late blight and early blight diseases and utilization of elite germplasms	Federal State Budgetary Scientific Institution “Federal Research Center the N.I. Vavilov All-Russian Institute of Plant Genetic Resources”	Rogozina Elena Vyacheslavovna	Huazhong Agricultural University (HZAU),	Zhendong Tian

32	25-43-02086	Experimental and Modeling Study of Hydrogen and/or Ammonia Combustion and Heat transfer in Porous Media	Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University	Smirnov Nickolay	Shanghai Jiao Tong University	Chen F.
33	25-48-02046	Developing a Sino-Russian Trans-Arctic-Pacific Maritime Transport Corridor on the principles of Blue Economy	The Russian Presidential Academy of National Economy and Public Administration	Bobylev Nikolai	Shanghai Maritime University	Liang Chengji
34	25-44-02109	Strategy and Mechanism Study of Promoting Endogenous Intestinal Stem Cell Differentiation in IBD based on "Colloidal Stress Regulation-Intestinal Adhesion Retention" Oral Delivery System	ITMO University	Milichko Valentin Andreevich	Tianjin University	Li Nan
35	25-44-02117	Future fate of forest growth under climate warming across the south-north transect from Tianshan mountains to Urals mountains in Asia	Federal State Autonomous Educational Institution of Higher Education "Siberian Federal University"	Shishov Vladimir	Zhejiang University, Hangzhou, China	Jianguo Huang
36	25-44-02059	Exploring the interaction mechanisms between nanoparticles and Kupffer cells and their biomedical applications	Shemyakin - Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences	Deyev Sergey	Huazhong University of Science and Technology	Li Zifu

37	25-44-02028	Chromatin remodeling and R-loop dynamics as determinants of normal development and tumorigenesis	Federal State Institution "Federal Research Centre "Fundamentals of Biotechnology" of the Russian Academy of Sciences"	Ruzov Alexey	Southern University of Science and Technology	Hutchins A.P.
38	25-44-02137	Study on the mechanisms of anti-CRISPR proteins in the dissemination of antimicrobial-resistant plasmids in <i>Klebsiella pneumoniae</i>	Autonomous Non-Profit Organization for Higher Education "Skolkovo Institute of Science and Technology"	Isaev Artem	Institute of Antibiotics, Huashan Hospital, Fudan University	Prof. Minggu Wang
39	25-44-02032	The synergetic impact of key toxic components in particulate matters on human health in conditions of overheated environment of sand and dust storms	St. Petersburg Federal Research Center of the Russian Academy of Sciences	Tronin Andrei	Zhejiang Normal University	Guorui Liu
40	25-43-02084	Development of high-energy-density rechargeable batteries based on multishelled structural lithium anode and redox-active polymer cathode	Federal Research Center of Problems of Chemical Physics and Medicinal Chemistry Russian Academy of Sciences	Kraevaya Olga Alexandrovna	Institute of Process Engineering, Chinese Academy of Sciences	Wang J.
41	25-43-02055	Photo- and Mechanochemical Green Preparation of Vitamin D Series Drugs	Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences	Dushkin Alexandr Valerjevitch	Zhejiang University of Technology, Hangzhou	Can, Jin

42	25-43-02217	Horizontally Aligned Single-Walled Carbon Nanotube Arrays for Advanced Photonic Applications	Moscow Institute of Physics and Technology	Chernov Alexander I	Peking University	Zhang J.
43	25-44-02070	Integrating ancient DNA to analyze the convergent evolution of cold-resistant genes in cattle and goat in China and Russia	All Russian research institute of animal breeding	Kalashnikova Lyubov Alexandrovna	Northwest A&F University	Wang Xihong
44	25-44-02092	The synergistic mechanisms of genetic variation and phenotypic plasticity in the differentiation of aestivation in <i>Apostichopus japonicus</i> populations from China and Russia	National Scientific Center of Marine Biology of the Far Eastern Branch of the Russian Academy of Sciences	Kalachev Alexander Vladimirovich	Institute of Oceanology, Chinese Academy of Sciences	Sun L.
45	25-48-02009	Research on Socio-economic Green Development and Resources Sustainable Management Modes of China-Russian Transboundary Region	Baikal Institute of Nature Management	Tulokhonov Arnold Kirillovich	Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences	Dong Suocheng

46	25-46-02057	Discovery and mechanistic study of novel antimicrobial peptides from medicinal and wild plants	Shemyakin - Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences	Rogozhin Eugene Alexandrovich	Department of Natural Product Chemistry, Key Laboratory of Chemical Biology (Ministry of Education), School of Pharmaceutical Sciences, Cheeloo College of Medicine, Shandong University, Jinan, China.	Wenqiang Chang
47	25-44-02055	Crosstalk between Neuronal Tau Pathology and Astrocyte Reactivity in the Neuroastrovascular Uncoupling in Alzheimer's disease	Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University	Brazhe Nadezda Aleksandrovna	Huazhong University of Science and Technology	Zhu L.-Q.
48	25-43-02048	Opto-electro-chemical control of resistive switching in hybrid nanocomposite memristors for neuromorphic computing and vision systems	Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University	Emelyanov Andrey	Sun Yat-Sen University	Liu G.

49	25-43-02202	Luminescence-spectrum modification and comprehensive performance enhancement of multicomponent Mn,Ce:(Gd,Y) ₃ (Sc,Al) ₅ O ₁₂ garnet based phosphor ceramics for solid state lighting	Far Eastern Federal University	Kosyanov Denis Yurievich	Shanghai Institute of Ceramics, Chinese Academy of Science	Jiang Li
50	25-43-02265	Solvent-mediated ionic liquid microassembly enables ultra-strong underwater adhesion	Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University	Ivanov Dimitri Anatolyevich	Hunan University	Shiguo Zhang
51	25-44-02100	Truncated forms of $\alpha 7$ -nAChR as new targets for Alzheimer disease therapy	Shemyakin - Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences	Lyukmanova Ekaterina	Changchun Institute of Applied Chemistry	Wang X.
52	25-44-02125	Dual-Targeting CAR-T Cell Therapy for Glioblastoma through Spatiotemporal Modulation of Tumor-Associated Macrophages	Shemyakin - Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences	Rubtsov Yury	Guangzhou Medical University	Guangshuai Jia

53	25-45-02065	Effect of cognitive behavioral therapy on gastrointestinal somatoform autonomic dysfunction in a cross-cultural context: a China-Russia randomized controlled study	Psychiatric Clinical Hospital 1 n. a. N.A. Alekseev of Healthcare Department of Moscow	Kostyuk Georgiy	Southeast University	Yuan Y.G.
54	25-45-02119	Development of adaptive bioprinting technology using machine learning and nanofiber-based bioinks for personalized reconstructive surgery of spinal cord and posterior lamellar eyelid	Federal State Autonomous Educational Institution of Higher Education I.M. Sechenov First Moscow State Medical University of the Ministry of Healthcare of the Russian Federation (Sechenovskiy University)	Karalkin Pavel	Department of Plastic and Reconstructive Surgery, Shanghai Jiao Tong University, School of Medicine	Huang R.L.
55	25-46-02064	Molecular Genetic Mechanisms Underlying Cattle Adaptation to Extreme Temperatures	FSBEI HE «Saint-Petersburg State University of Veterinary Medicine»	Plemyashov Kirill	Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences	Jinming Huang