Potential scientific supervisors: Biology & Biotechnology

№	Surname	Name	University	Scientific interests	Link to portfolio
1.	Anurova	Maria	First Moscow State Medical University (Sechenov University)	The main direction of scientific activity is the creation of pharmaceuticals with biotechnological substances representing viruses and recombinant proteins with optimal consumer and therapeutic properties. Justification and selection of dosage form, methods of stabilization of biotechnological active pharmaceutical substances, composition of dosage form, production technology, development of stability study program and methods of technology transfer to the production site. A separate direction included in the sphere of scientific interests is scientific and technical substantiation of the processes of scaling and technology transfer of synthetic, plant, animal and biotechnological drugs.	https://www.sechenov.ru/eng/education-study/open-doors-russian-scholarship-project/?clear_cache=Y
2.	Bezsonov	Evgeny	First Moscow State Medical University (Sechenov University)	Gene therapy, atherosclerosis, prions, cell surface	https://www.sechenov.ru/eng/education-study/open-doors-russian-scholarship-project/?clear_cache=Y
3.	Bogomolov	Denis	First Moscow State Medical University (Sechenov University)	Evolution strategies in antagonistic interspecific systems	https://www.sechenov.ru/eng/education-study/open-doors-russian-scholarship-project/?clear_cache=Y
4.	Brodskaia	Aleksandra	Peter the Great St. Petersburg Polytechnic University	Molecular biology, molecular virology, influenza virus, phylogeny of viruses, RNA interference, intracellular delivery of nucleic acids, development of recombinant immunobiological products.	https://opendoors.spbstu.ru/files/supervisors_portfolio/brodskaia.pdf
5.	Burlakov	Evgenii	University of Tyumen	Mathematical modelling of complex bio- and ecosystems (Differential equations and dynamical systems, functional analysis, set-valued analysis, numerical methods).	International Olympiad conducted by the "Global Universities" Association
6.	Eremeeva	Natalia	ITMO University	Active biopackaging	https://int.itmo.ru/uploads/er/erem

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				Extraction of biologically active substances from plant materials Food chemistry Increasing the shelf life of food products Food safety	eeva_natalia_b.pdf
7.	Gerasimova	Elena	University of Tyumen	I study biodiversity and microbiomes of aquatic ecosystems with a special focus on saline and brackish water. One of the objects of research is a group of predatory protists - centrohelid heliozoans. Heliozoans live in both aquatic and soil ecosystems, control the number of bacteria and act as a reservoir for other microorganisms. One of the promising areas is the study of heliozoan microbiomes and their reservoir function for various microorganisms, including pathogens	International Olympiad conducted by the "Global Universities" Association
8.	Grinev	Alexandr	First Moscow State Medical University (Sechenov University)	The genetics of protozoa-human parasites. Malaria infection. Tropical malaria.	https://www.sechenov.ru/eng/education-study/open-doors-russian-scholarship-project/?clear_cache=Y
9.	Ivanova	Vera	ITMO University	Active biopackaging Extraction of biologically active substances from plant materials Food chemistry Increasing the shelf life of food products Food safety	https://int.itmo.ru/en/opendoors_phd
10.	Ilyasov	Igor	First Moscow State Medical University (Sechenov University)	Food microbiology Microbial biotechnology Industrially used microorganisms and microbial starters Search for new microorganisms-producers Antimicrobial activity and antibiotic resistance of microorganisms Biotechnology for processing of microbial biomass Synthesis of microbial and plant-based biologically	https://www.sechenov.ru/eng/education-study/open-doors-russian-scholarship-project/?clear_cache=Y

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				active substances	
11.	Kayumov	Airat	Kazan (Volga region) Federal University	Bacterial biofilms, antibiotic resistance, inter-bacterial interaction, Lactic acid bacteria, probiotics.	https://kpfu.ru/portal/docs/F2069813758/Kayumov.ang.docx
12.	Konevega	Andrey	Peter the Great St. Petersburg Polytechnic University	Nuclear medicine, molecular biophysics, structural biology, cryoelectron microscopy, cell biology, molecular biology, etc.	https://opendoors.spbstu.ru/files/supervisors_portfolio/konevega.pdf
13.	Kovaleva	Elena	Ural Federal University named after the first President of Russia B.N. Yeltsin	Development of methods for extracting biologically active substances from plant materials and food production waste, functional foods, biotransformation technologies, effective sorbents of organic and inorganic substances, catalysts, including enzymatic ones, the use of AI (neural networks) in various chemical and biotechnological processes.	https://urfu.ru/en/research/postgraduate-programs-in-english/admission-options/open-doors-olympiad/research-supervisors/elena-g-kovaleva/
14.	Kravtsova	Elena	First Moscow State Medical University (Sechenov University)	Microecology. The influence of anthropogenic factors on the human microbiome.	https://www.sechenov.ru/eng/education-study/open-doors-russian-scholarship-project/?clear_cache=Y
15.	Kratasyuk	Valentina	Siberian Federal University	Bioluminescent biosensors, Biochemistry of luminous bacteria, Bioluminescent analysis, Enzymatic bioassays for toxicity, Molecular crowding.	https://www.sfu-kras.ru/files/Kratasyuk_V.A._Struktura_nauchnogo_profilya_portfolio_PNR_2023_ENG.pdf
16.	Kurovsky	Alexander	National Research Tomsk State University	1. Study of the processes of vermicomposting and agrochemical properties of vermicompost during the processing of leaf litter in vermiculture. 2. Research of the influence of humic substances and humic preparations on the morphophysiological parameters of plants. 3. Modification of mineral nutrition of plants in order to increase the nonspecific resistance of the plant	http://tsuod.tilda.ws/kurovskyen

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				organism to a wide range of influences.	
17.	Larina	Svetlana	First Moscow State Medical University (Sechenov University)	The study of the genetic basis of cardiometabolic diseases. Identification of gene polymorphisms and their regulatory regions associated with cardiometabolic diseases, metabolic syndrome in the Russian population.	https://www.sechenov.ru/eng/education-study/open-doors-russian-scholarship-project/?clear_cache=Y
18.	Meleshko	Dmitrii	ITMO University	NGS data analysis Genome assembly Algorithms in bioinformatics	https://int.itmo.ru/en/opendoors_phd
19.	Minkina	Tatiana	Southern Federal University	Monitoring, modeling and restoration of soils contaminated with heavy metals and polycyclic aromatic compounds. Nanoparticles of heavy metals in the soil-plant system: assessment and environmental risks. Agro- and eco-biotechnologies to improve the quality and safety of soils and agricultural products. Innovative methods for studying the stability of the soil-plant-microorganism system under various anthropogenic loads. Intelligent soil diagnostic systems using machine learning methods. Development of a comprehensive technology for recycling crop and livestock waste in order to create a biochar with specified properties. Phytoremediation and chemoremediation of contaminated soils. Synchrotron and microfluidic technologies in the diagnosis of contaminated soils. Biochemical and physiological mechanisms for regulating plant resistance to negative influences. Metagenomic screening of the soil microbial community, nitrifying microorganisms and PAH degraders in contaminated soils.	https://sfedu.ru/www/stat_pages22.show?p=RR/per_eng/D&params=(p_per_id=%3E346)
20.	Mishchenko	Tatiana	National Research	Research in the field of neuro-oncology: regulated	http://eng.unn.ru/images/Open_D

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			Lobachevsky State University of Nizhny Novgorod	forms of cell death, immunogenic cell death, antitumour therapy, immunotherapy, antitumour vaccination Research in the field of neurophysiology: peculiarities of functional activity of brain neuronal networks under various stress factors (including hypoxia-ischaemic conditions, tumour processes). Research of biocompatibility of nanomaterials and tissue-engineered constructs (scaffolds) with cells of the nervous system: targeted delivery systems, diagnosis and therapy of malignant brain tumours.	oors/Profiles/mishchenko.pdf
21.	Nadtochii	Liudmila	ITMO University	Research of processed products of flax seeds (Linum) and chia seeds (Salvia hispanica L.) Development of encapsulated biologically active substances as part of functional foods Development of an individual diet in extreme conditions	https://int.itmo.ru/en/opendoors_phd
22.	Olonova	Marina	National Research Tomsk State University	Systematics and phylogeny of grasses, plant anatomy, morphological and genetic diversity, biogeography, ecological and climatic modeling, plant concervation.	http://tsuod.tilda.ws/olonovaen
23.	Pashkov	Evgeny	First Moscow State Medical University (Sechenov University)	Immunology, virology, molecular biology	https://www.sechenov.ru/eng/education-study/open-doors-russian-scholarship-project/?clear_cache=Y
24.	Poshvina	Darya	University of Tyumen	Investigation of the mechanisms of antibiotic resistance in bacteria to different classes of antimicrobial compounds, investigation of the spread of antibiotic resistance genes in environmental objects (water, soil) using advanced sequencing methods.	International Olympiad conducted by the "Global Universities" Association
25.	Sergeev	Michael	Novosibirsk State University	Species richness and assemblages of Orthoptera in a region.	https://www.nsu.ru/upload/medialibrary/425/qsmcjc5io4nxrlxhxz5b7qysmm3ujh33/sergeev-russian.pdf
26.	Sherstneva	Oksana	National Research	Development of approaches to non-invasive plant	http://eng.unn.ru/images/Open_D

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			Lobachevsky State University of Nizhny Novgorod	phenotyping to accelerate the breeding process. Early detection of stress in plants caused by abiotic and biotic factors. Remote methods of plant research. Imaging systems. Image processing.	oors/Profiles/sherstnevaON.pdf
27.	Shilyagina	Natalia	National Research Lobachevsky State University of Nizhny Novgorod	Research in the field of radiobiology: dose-effect relationship, cell death mechanisms, witness effect. Photodynamic therapy research: antitumour activity, cellular uptake features, selectivity of accumulation in tumour models. Research on nano- and submicron particles: targeted delivery systems, diagnosis and therapy of cancer.	http://eng.unn.ru/images/Open_Doors/Profiles/shilyagina.pdf
28.	Spirina	Lyudmila	Siberian State Medical University	Biochemical and biological bases of nanoengineering of medical materials, biochemical, molecular biological and immunological features of chronic non-communicable and infectious human diseases against the background of metabolic disorders	https://open-doors.bitrix24site.ru/spirina_en/
29.	Tolstikov	Andrei	University of Tyumen	Ecological divergence of arthropods including soil, fresh-water and arboreal mites. Biodiversity dynamics under global changes.	International Olympiad conducted by the "Global Universities" Association
30.	Vasilchenko	Alexei	University of Tyumen	The formation of a collection of bacterial and fungal strains that produce substances with biotechnological potential. The structural and functional characteristics of antimicrobial substances, including their lethal and sublethal effects on bacterial and fungal pathogens. Prototypes of biopesticides are being developed based on one or a group of these antimicrobial substances, as well as on bacterial and fungal consortia. The phenomenon of quorum sensing, which modulates the virulence of microorganisms through interference with intercellular communication. The impact of pesticides and biopesticides on the functional properties of the soil microbiome, as well as fundamental processes occurring in the "soil-plant" system that underlie plant	International Olympiad conducted by the "Global Universities" Association

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				resistance to disease and crop yields.	
31.	Volkova	Irina	National Research Tomsk State University	Methods for increasing the carbon sequestration potential of terrestrial and freshwater ecosystems, Dynamics of ecosystems in Western Siberia under conditions of climate and land use changes, Vulnerable ecosystems and landscapes of Siberia in a changing climate.	http://tsuod.tilda.ws/volkovaen