

Potential scientific supervisors: Biology & Biotechnology

No	Full name	University	Field of study	Link to portfolio
1	Adarsh, Kumar	Ural Federal University	Plant-Soil-Microbe interaction, Solid and Hazardous Waste Management, Sustainable Waste Management, Ecotoxicology, Carbon Dynamics, Health Hazard assessment	https://science.urfu.ru/en/persons/%D0%BA%D1%83%D0%BC%D0%B0%D1%80-%D0%B0%D0%B4%D0%B0%D1%80%D1%88
2	Babenko, Andrei S.	Tomsk State University	Soil invertebrates as indicators of climate change; Fauna and ecology of staphylinids of natural and anthropogenic disturbed territories of the mountains of southern Siberia Development of methods for recycling organic waste, obtaining effective fertilizers and animal protein using vermiculture methods	http://en.tsu.ru/advisors/biology/andrei-s-babenko/
3	Belogurov, Alexey A. jr	Moscow Institute of Physics and Technology	Study of molecular mechanisms of proteasome machinery	https://eng.mipt.ru/programs/global-profiling-of-ubiquitin-proteasome-system-functioning-and-protein-turnover/
4	Buzdin, Anton A.	Moscow Institute of Physics and Technology	We try to crosslink complex genomic and transcriptomic patterns with human pathology to develop new generation of molecular diagnostic tests	https://eng.mipt.ru/programs/big-genetic-data-management-for-translational-biosciences-and-clinical-oncology/
5	Dashinimaev, Erdem B.	Moscow Institute of Physics and Technology	Human induced pluripotent stem cells Direct reprogramming of human somatic cells Genome editing using CRISPR/Cas9 methods CRISPR-a screening of reprogramming factors Single cell RNA-seq analysis	https://eng.mipt.ru/programs/human-stem-cell-reprogramming-for-regenerative-biomedicine/

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6	Efimova, Marina V.	Tomsk State University	Physiological and molecular mechanisms of plant stress resistance regulation The role of phytohormones and selective light in the photomorphogenesis realization	http://en.tsu.ru/advisors/biology/marina-v-efimova/
7	Gryadunov, Dmitry A.	Moscow Institute of Physics and Technology	Study of molecular mechanisms of drug resistance in bacteria and viruses, design of specialized DNA and protein microarrays, development of nucleic acids amplification and hybridization techniques, state-of-the-art technologies in molecular biology and molecular diagnostics, genomics of socially significant and biowarfare infectious agents, complete integrated microfluidic device design, engineering of portable systems for real-time clinical and forensic diagnostics.	https://eng.mipt.ru/programs/study-of-antimicrobial-resistance-mechanisms-and-biomarkers-of-inflammation-and-the-development/
8	Ivanova, Natalia A.	University of Tyumen	Microfluidics and Physical Chemistry	https://www.utmn.ru/open-doors/eng/profile/n.a.ivanova/
9	Kajumov Ajrat	Kazan University	Microbiology	https://kpfu.ru/Ajrat.Kajumov?p_lang=2
10	Kasianov, Artem S.	Moscow Institute of Physics and Technology	De novo genome assembly of plant genomes Functional annotation of plant genomes Transcriptomics and regulation in plants	https://eng.mipt.ru/programs/plant-genomics-and-transcriptomics/
11	Khaustov, Alexander Alexandrovich	University of Tyumen	Predatory Mites for Plant Protection	https://www.utmn.ru/open-doors/eng/profile/a.a.khaustov/

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12	Kiseleva, Irina Sergeevna	Ural Federal University	Ecophysiology of plants; Plant tolerance to heavy metals; Photosynthesis research; Developmental aspects of photosynthesis; Plants and fungi as the source of natural pesticides and plant growth regulators. The lab of photosynthesis studies; Molecular genetic lab; Field studies; Cooperation with Inner Mongolian University, Malopolske Centre for Biotechnology (Krakow).	https://science.urfu.ru/en/persons/%D0%B8%D1%80%D0%B8%D0%BD%D0%B0-%D1%81%D0%B5%D1%80%D0%B3%D0%B5%D0%B5%D0%B2%D0%BD%D0%B0-%D0%BA%D0%B8%D1%81%D0%B5%D0%BB%D0%B5%D0%B2%D0%B0
13	Kratasyuk, Valentina A.	Siberian Federal University	Biophysics, biotechnologies and bioluminescent analysis	http://www.sfu-kras.ru/files/Kratasyuk_.pdf
14	Krechetov, Sergey	Moscow Institute of Physics and Technology	Preparation of API-containing dispersed systems (micro/nanoemulsions, micro/nanoparticles, micelles and other) Preparation of nanostructured multifunctional microparticles with API Solubilization of low soluble API Use of drug delivery systems in dosage forms	https://eng.mipt.ru/programs/research-and-development-of-new-drug-delivery-systems-for-active-pharmaceutical-ingredients-api/
15	Kurovsky, Alexander V.	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 organism to a wide range of influences.	http://en.tsu.ru/advisors/biology/alexander-v-kurovsky/

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16	Lazarev, Vassili N.	Moscow Institute of Physics and Technology	Recombinant protein production Genome editing Discovery of new antimicrobial, thrombolytic and anticoagulant protein and peptides	https://eng.mipt.ru/programs/functional-genomics-gene-engineering-drug-discovery/
17	Leonov, Sergey B.	Moscow Institute of Physics and Technology	DNA repair and Aging Mechanobiology of Cancer cells Extracellular vesicles and cancer dissemination New biomarkers of cancer invasiveness and radioresistance Pharmacological modulation of EMT, stemness and radioresistance Natural products for microbiology, oncology and aging	https://eng.mipt.ru/programs/radiation-biophysics-oncology-drug-discovery/
18	Makeev, Vsevolod J.	Moscow Institute of Physics and Technology	Algorithms Optimization Gene expression Transcription factors DNA-protein interactions Big data	https://eng.mipt.ru/programs/computational-biology-of-regulation-of-transcription-initiation/
19	Marusich, Elena I.	Moscow Institute of Physics and Technology	The study of alternative to antibiotics to combat pathogenic microorganisms	https://eng.mipt.ru/programs/study-of-the-antimicrobial-activity-of-the-fat-of-the-larva-of-the-fly-hermetia-illucens-in-medicine/
20	Medvedeva, Yulia A.	Moscow Institute of Physics and Technology	Development of bionformatics tools and resources for regulatory genomics, cell fate engineering and drug repurposing. Computational investigation of regulatory transcriptomics and epigenomics in application to normal and pathological processes.	https://eng.mipt.ru/programs/computational-biology-bioinformatics-data-analysis/

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21	Mitroshina, Elena V.	Lobachevsky State University of Nizhni Novgorod (UNN)	Investigation of Molecular Mechanisms of the Nervous System Adaptation to Stress Conditions	http://eng.unn.ru/images/eng/2020/docs/ENG. ИББМ портфолио Митрошина.pdf
22	Paukov, Aleksandr Gennad'evich	Ural Federal University	Biodiversity, systematics and ecology of lichens Phylogeny of the lichen family Megasporaceae, species diversity, ecology and evolution of the family in the Holocene Biodiversity of lichens of the Eurasian region with the special attention to the saxicolous lichens of the Urals, Altai and Far East Secondary metabolites of lichens and their role in the interaction with saxicolous substrate.	https://science.urfu.ru/en/persons/%D0%B0%D0%BB%D0%B5%D0%BA%D1%81%D0%B0%D0%BD%D0%B4%D1%80-%D0%B3%D0%B5%D0%BD%D0%BD%D0%B0%D0%B4%D1%8C%D0%B5%D0%B2%D0%B8%D1%87-%D0%BF%D0%B0%D1%83%D0%BA%D0%BE%D0%B2
23	Rubtsov, Nikolay B.	Novosibirsk State University	Structure and evolution of chromosomes in eukaryotes	https://events.nsu.ru/open_doors/ruk/eng/Rubtsov.pdf
24	Shishatskaya, Ekaterina I.	Siberian Federal University	Biomedicine and Biotechnology	http://www.sfu-kras.ru/files/Shishackaya .pdf
25	Shtil, Alexander A.	Moscow Institute of Physics and Technology	Mechanisms of Tumor Cell Death at Blokhin Cancer Center.	https://eng.mipt.ru/programs/experimental-cancer-research/

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26	Soshnikov, Sergey	Moscow Institute of Physics and Technology	Public Health Medical Data Analysis Biostatistics Clinical Research Mathematical Models of Diseases Preliminary Estimates Causes of Death Risk Factors Prevalence Incidence Global Burden of Diseases Local Burden of Diseases Mental Health Disability-Adjusted Life Year (DALY) International Health Development	https://eng.mipt.ru/programs/expert-on-global-public-health-and-international-health-development/
27	Stupnikov, Alexey	Moscow Institute of Physics and Technology	Our works involve, but not limited to studying and using the concept of Differential Gene Expression for RNA-seq data. We have earlier explored various aspects of RNA-seq based data properties, models performance and quality assessment. Currently we recruit this approach for inferring the problem of Chemical Reprogramming, which is a process of transforming cells from one tissue type to another with assistance of specific chemical agents.	https://eng.mipt.ru/programs/bioinformatics-alexey-stupnikov/
28	Sviderskaya, Irina	Siberian Federal University	Upward water transport in trees and cellular structure of xylem in conifers in relation to environmental changes	http://www.sfu-kras.ru/files/Sviderskaya.pdf

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29	Vassilevski, Alexander A.	Moscow Institute of Physics and Technology	Structure and modulation of ion channels Ion channel ligands as drug hits and leads Molecular mechanisms of pain Natural venoms and neurotoxins	https://eng.mipt.ru/programs/molecular-neurobiology/
30	Vedunova, Maria V.	Lobachevsky State University of Nizhni Novgorod (UNN)	Biological aspects and treatment of pathologies of the nervous system, tumors and age-associated changes	http://eng.unn.ru/images/eng/2020/docs/ENG. ИББМ портфолио Ведунова.pdf
31	Volchkov, Pavel	Moscow Institute of Physics and Technology	Biochemistry Genetics Molecular Biology Medicine Immunology Microbiology Regenerative Medicine Stem cells Bioinformatics Gene Therapy Cell Therapy	https://eng.mipt.ru/programs/phd-program-in-the-genome-engineering-laboratory-on-bioinformatics-genetics-and-molecular-biology-pr/