

Potential scientific supervisors: Biology & Biotechnology

Nº	Surname	Name	University	Scientific interests	Link to portfolio
1.	Artemov	Gleb	National Research Tomsk State University	The scientific interests of the director are related to the study of genetic aspects of adaptation, reproductive behavior, hybridization, ecology and evolution of blood-sucking mosquitoes and, in particular, malaria mosquitoes.	http://tsuod.tilda.ws/artemoven
2.	Babenko	Andrey	National Research Tomsk State University	Ecology of soil-dwelling invertebrates; organic agriculture; development of technologies for waste processing and fertilizer production by vermicomposting; bio-indication of disturbed territories, environmental education.	http://tsuod.tilda.ws/babenkoe_n
3.	Bychkova	Elena	ITMO University	1. Development and assessment of the quality of food products of functional, specialized, and therapeutic and prophylactic directions 2. Development of biologically active additives from plant raw materials with high antioxidant activity 3. Study of the process of hydrolysis of high-protein plant materials 4. Research into the microencapsulation process for preserving biologically active substances of plant materials	https://aspirantura.itmo.ru/?main=43
4.	Vayshlya	Olga	National Research Tomsk State University	Study of plant-microbial associations, application of symbiotic technologies in the restoration of forest resources and agriculture. Physiological and biochemical features of photo- and mycobiont in the composition of ectomycorrhizal associations of coniferous trees. Induced resistance of plants to harmful environmental factors and pathogens. Identification of industrially significant species of macromycetes from the list of mycobiota of the Tomsk region for the development of new	http://tsuod.tilda.ws/vayshlyaven

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				technology for the restoration of forest resources and for use in the pharmaceutical and cosmetic industry.	
5.	Vlasova	Olga	Peter the Great St Petersburg Polytechnic University	Study of the molecular mechanisms of impaired neuronal activation and methods of recovery	https://opendoors.spbstu.ru/files/supervisors_portfolio/vlasova.pdf
6.	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/volkovan
7.	Gorshkov	Vladimir	Kazan (Volga region) Federal University	Plant-microbe interactions, genomics and transcriptomics, molecular cloning, analysis of plant microbiome, plant infectious diseases	https://kpfu.ru/portal/ias_utils._file_download?p_table_id=4&p_file=F_1039716045/Gorshkov.V.Yu..portfolio.pdf
8.	Zun	Pavel	ITMO University	Applying computer models, both imitation-based and ML-based, to improve understanding of tissue function and properties, to find ways to design better medical devices and to grow tissues in vitro for transplantology; validation and verification of these models. Main application area is cardiology and the circulatory system.	https://aspirantura.itmo.ru/?main=43
9.	Zyuzin	Mikhail	ITMO University	Development of nanomaterials for biomedical applications, drug delivery, light-sensitive nanomaterials, microfluidics	https://aspirantura.itmo.ru/?main=43

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10.	Kabachkova	Anastasiia	National Research Tomsk State University	1. physiological support for the performance of physical activities; 2. the effects of mutual influence of motor activity and cognitive activity; 3. the use of physical activity for the prevention and complex treatment of various pathologies (search for mechanisms of positive influence).	http://tsuod.tilda.ws/kabachkovaav
11.	Kayumov	Airat	Kazan (Volga region) Federal University	Bacterial biofilms, antibiotic resistance, inter-bacterial interaction, Lactic acid bacteria, probiotics	https://kpfu.ru/portal/ias_utils_file_download?p_table_id=4&p_file=F951461576/Kayumov.A.R..portfolio.pdf
12.	Kiseleva	Irina	Ural Federal University named after the first President of Russia B.N. Yeltsin	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.	https://urfu.ru/en/research/postgraduate-programs-in-english/admission-options/open-doors-olympiad/research-supervisors/irina-s-kiseleva/
13.	Konevega	Andrei	Peter the Great St Petersburg Polytechnic University	Radiopharmaceuticals, medical radiology, proton therapy, Antibiotics that inhibit protein biosynthesis, cryoelectron microscopy	https://opendoors.spbstu.ru/files/supervisors_portfolio/konevega.pdf
14.	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
15.	Kumeiko	Vadim	Far Eastern Federal University	Molecular mechanisms of carcinogenesis; promising anticancer drugs and systems for molecular recognition of tumor cells, the creation of nanoparticles for drug delivery	https://www.dvfu.ru/en/open_doors/vadim-v-kumeiko/

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16.	Kurovsky	Alexander	National Research Tomsk State University	<p>1. Study of the processes of vermicomposting and agrochemical properties of vermicompost during the processing of leaf litter in vermiculture.</p> <p>2. Research of the influence of humic substances and humic preparations on the morphophysiological parameters of plants.</p> <p>3. Modification of mineral nutrition of plants in order to increase the nonspecific resistance of the plant organism to a wide range of influences.</p>	http://tsuod.tilda.ws/kurovsky_en
17.	Mishchenko	Tatiana	Lobachevsky State University of Nizhni Novgorod (UNN)	<p>Research in the field of neuro-oncology: regulated forms of cell death, immunogenic cell death, antitumour therapy, immunotherapy, antitumour vaccination</p> <p>Research in the field of neurophysiology: peculiarities of functional activity of brain neuronal networks under various stress factors (including hypoxia-ischaemic conditions, tumour processes).</p> <p>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.</p>	http://eng.unn.ru/images/Open_Doors/Profiles/mishchenko.pdf
18.	Olonova	Marina	National Research Tomsk State University	<p>Systematics and phylogeny of grasses, plant anatomy, morphological and genetic diversity, biogeography, ecological and climatic modeling, plant conservation.</p>	http://tsuod.tilda.ws/olonovae_n
19.	Volchkov	Pavel	Moscow Institute of Physics and Technology (National Research University)	<p>Biochemistry Genetics Molecular Biology Medicine Immunology Microbiology Regenerative Medicine Stem cells</p>	https://eng.mipt.ru/programs/phd-program-in-the-genome-engineering-laboratory-on-bioinformatics-genetics-and-molecular-biology-pr/

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				Bioinformatics Gene Therapy Cell Therapy	
20.	Politaeva	Natalia	Peter the Great St Petersburg Polytechnic University	Ecology, ecological biotechnology, geoecology	https://opendoors.spbstu.ru/files/supervisors_portfolio/politaeaeva.pdf
21.	Pchitskaya	Ekaterina	Peter the Great St Petersburg Polytechnic University	Molecular neuroscience, neurophysiology, computational neuroscience, biological data processing	https://opendoors.spbstu.ru/files/supervisors_portfolio/pchitskaya.pdf
22.	Rouzine	Igor	Peter the Great St Petersburg Polytechnic University	Multi-disciplinary research at the interface of evolution theory, population genetics, virology, and immunology	https://opendoors.spbstu.ru/files/supervisors_portfolio/rouzine_eng.pdf
23.	Sedov	Alexey	Moscow Institute of Physics and Technology (National Research University)	Neurophysiological mechanisms of motor control in normal and motor pathologies in patients with Parkinson's disease and dystonia. The role of synchronization and oscillation in the transmission of information in normal and in various pathologies.	https://hcnp.ru/sedov/en
24.	Silant'ev	Vladimir	Far Eastern Federal University	nanotechnology, material sciences, polymer sciences, colloid chemistry.	https://www.dvfu.ru/en/opendoors/e-vladimir-silant-ev/
25.	Smyatskaya	Julia	Peter the Great St Petersburg Polytechnic University	Ecobiotechnology, applied biotechnology	https://opendoors.spbstu.ru/files/supervisors_portfolio/smyatskaya_eng.pdf
26.	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/

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27.	Frank	Yulia	National Research Tomsk State University	Microplastics in freshwater ecosystems of Siberia: accumulation and distribution, Ecotoxicology of microplastics and its impact to freshwater biota, Biological and complex methods for cleaning the environment from petroleum hydrocarbons.	http://tsuod.tilda.ws/franken
28.	Khotimchenko	Yuri	Far Eastern Federal University	Drug development, pharmacokinetics and preclinical trials of the pharmacologically active compounds derived from the natural sources	https://www.dvfu.ru/en/open_doors/yuri-s-khotimchenko/
29.	Sherstneva	Oksana	Lobachevsky State University of Nizhni Novgorod (UNN)	<ul style="list-style-type: none"> • Development of approaches to non-invasive plant 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. 	http://eng.unn.ru/images/Open_Doors/Profiles/sherstnevaON.pdf
30.	Shilyagina	Natalia	Lobachevsky State University of Nizhni Novgorod (UNN)	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
31.	Shkryl	Yury	Far Eastern Federal University	Molecular biology and biotechnology; genetic and genomic engineering of plants, fungi and microorganisms; biomimetics, organic and inorganic nanostructures; drug compounds, vaccines and therapeutic proteins	https://www.dvfu.ru/en/open_doors/yuri-n-shkryl/

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