

Ministry of Science and Higher Education of the Russian Federation
Belgorod State National Research University

PROGRAM
of the third International Symposium
«Innovations in Life Sciences»
27-28 May 2021

Belgorod, 2021

PROGRAM OF THE III INTERNATIONAL SYMPOSIUM INNOVATIONS IN LIFE SCIENCES,
Belgorod, 27-28 May, 2021

PROGRAM
OF THE III INTERNATIONAL SYMPOSIUM
«Innovations in Life Sciences»

May 27

<i>09:30 – 12:00</i>	Plenary Session Part 1.	videoconference
<i>13:00 – 16:00</i>	Plenary Session Part 2.	videoconference

May 28

<i>10:00 – 16:00</i>	Ecological Questions, Environmental Issues and Environmental Education in Modern World (Belgorod National Research University)	videoconference
<i>10:00 – 16:00</i>	Pharmaceutical cluster as an integration of science, education and production (Belgorod National Research University)	videoconference
<i>10:00 – 16:00</i>	Fundamental and applied aspects of biotechnology and microbiology (Belgorod National Research University)	videoconference
<i>10:00 – 16:00</i>	Innovation in Food Industry Technology (Belgorod National Research University)	videoconference
<i>10:00 – 16:00</i>	Horizons in modern Chemistry (Belgorod National Research University)	videoconference
<i>10:00 – 12:00</i>	Innovative approaches in plant biotechnology, agrobiophotonics, the influence of genetic and biochemical factors on plant development for the agro-industrial complex and bioresource collections (Belgorod National Research University)	videoconference
<i>10:00 – 12:30</i>	Biosecurity as the basis of pharmaceutical production and veterinary medicine (Belgorod State Agricultural University named after V. Gorin)	videoconference
<i>10:00 – 12:00</i>	Nano-biosensor and computer biology in life science (Dezhou University,	videoconference

China)

May 27
Plenary session
Part 1
10:00 – 13:00

№	Time	Speaker's full name	Report title
1.		Oleg Polukhin , Rector of the Belgorod National Research University (Belgorod, Russia)	Salutatory word
2.		Zhao Shengzun , Rector of the Dezhou University (China)	Salutatory word
3.		Stepan Kalmykov , Dean of the Faculty of Chemistry, Lomonosov Moscow State University, Corresponding Member of the Russian Academy of Sciences, Doctor of Chemical Sciences (Moscow, Russia)	Salutatory word
4.		Janos Molnar , Independent Expert on Agriculture of the European Union and Hungary, PhD (Hungary)	Salutatory word
5.	10:30 – 10:45	Ekaterina Zhuravleva , Head of the Science Department of the Department of Internal and Personnel Policy of the Belgorod Region, Professor of the Russian Academy of Sciences, Doctor of Agricultural Sciences (Belgorod, Russia)	Salutatory word Conversation of bioresource diversity as part of biosecurity
6.	10:45 – 11:00	Petr Solih , Dean of the Faculty of Pharmacy, Charles University, Professor, (Hradec Králové, Czech Republic)	Analytical Chemistry – how important is for our life
7.	11:00 – 11:15	Jiafeng Yu , Deputy Director, Shandong Key Biophysics Laboratory, Dezhou University, (Dezhou, China)	Microbiome analysis: methods and applications
8.	11:15 – 11:30	Nikolai Sidelnikov , Director of the All-Russian Scientific Research Institute of Medicinal and Aromatic Plants, Academician of the Russian Academy of Sciences (Moscow, Russia) Praskovya Mizina , Deputy Director	Development of life sciences at All-Russian Research Institute of Medicinal and Aromatic Plants: 90 years -

		for Research, All-Russian Scientific Research Institute of Medicinal and Aromatic Plants, Doctor of Pharmaceutical Sciences (Moscow, Russia)	achievements and prospects. Significant scientific results of living system technology
9.	11:30 – 11:45	Karen Trchunyan , Director of the Microbial Biotechnology and Biofuel Innovation Center of Yerevan State University, Doctor of Biological Sciences (Yerevan, Armenia)	Isolated culture of <i>Ajiga reptance L.</i> , its morphological and growth features
10.	11:45 – 12:00	Yanina Delegan , Senior Researcher, Federal Research Center “Pushchino Scientific Center for Biological Research of the Russian Academy of Sciences”, PhD, Biological Sciences (Moscow, Russia)	Bioinformatics as a Basis for the Analysis of Biological Experiments Data
11.	12:00 – 12:15	Muhtor Nasyrov , Vice-Rector for International Relations, Samarkand State University, PhD, Biological Sciences (Samarkand, Uzbekistan)	Regarding joint activities of Samarkand State university and Belgorod National Research University in 2021-2023 academic years
12.	12:15 – 12:30	Vladimir Tishkov , Head of the Laboratory of Molecular Engineering, Bakh Institute of Biochemistry, Professor of the Department of Chemical Enzymology, Lomonosov Moscow State University, Doctor of Chemical Sciences (Moscow, Russia)	Obtaining biocatalysts in the post-genomic era
13.	12:30 – 12:45	Alexey Deykin , Director of the Joint Center for Genetic Technologies, Belgorod National Research University, PhD, Biological Sciences (Belgorod, Russia)	Genetic technologies in biomedicine and agriculture

Plenary session

Part 2

14:00 – 17:00

№	Time	Speaker’s full name	Report title
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14.	14:00 – 14:15	Vladimir Menyailov , Deputy Dean of the Faculty of Chemistry, Lomonosov Moscow State University, PhD, Biological Sciences (Moscow, Russia)	Experience of MSU Faculty of Chemistry in the application of information technologies in special and additional education
15.	14:15 – 14:30	Alexander Zalessky , Senior Researcher, N.N. Semenov Federal Research Center for Chemical Physics Russian Academy of Sciences (Moscow, Russia)	Optical manipulation methods in the study of biological objects
16.	14:30 – 14:45	Natalya Pyatigorskaya , Deputy Director of the Institute of Pharmacy and Translational Medicine, First Moscow State Medical University named after Sechenov, Doctor of Pharmaceutical Sciences, Professor (Moscow, Russia) Galina Brkich , Head of the Center for Pharmaceutical Technologies, First Moscow State Medical University named after Sechenov, PhD, Pharmaceutical Sciences (Moscow, Russia)	Applying the QbD Concept in Validation
17.	14:45 – 15:00	Aida Kistaubaeva , Head of the Department of Biotechnology, Al-Farabi Kazakh National University, PhD, Biological Sciences, Professor (Almaty, Kazakhstan)	Biotechnology Xanthan gum fermentation by <i>Xanthomonas campestris</i>
18.	15:00 – 15:15	Valerie Tokhtar , Director of the “Belgorod State University Botanical Garden” Research and Education Centre, Doctor of Biological Sciences Mikhail Tretyakov , Laboratory Manager, PhD, Biological Sciences (Belgorod, Russia)	Main results and development prospects of the “Belgorod Lilac” project
19.	15:15 – 15:30	Irina Kaukhova , Head of the Industrial Technology of Medicines Department, Saint Petersburg State Chemical Pharmaceutical University,	Integration of education and science within training personnel

		Doctor of Pharmaceutical Sciences (Saint Petersburg, Russia)	for the pharmaceutical industry
20.	15:30 – 15:45	Olga Kostyunina , Head of the Laboratory of Molecular Basis of Breeding, Federal Research Center for Animal Husbandry named after Academy Member L.K. Ernst, Doctor of Biological Sciences (Moscow, Russia)	The relevance of the practical use of the pig molecular genetic study results
21.	15:45 – 16:00	Inna Solyanikova , Director of the Regional Microbiological Center of Belgorod National Research University, Doctor of Biological Sciences (Belgorod, Russia)	The contribution of indigenous strains to biotechnology for the agro-industrial complex and industry of the region
22.	16:00 – 16:15	Eduard Snegin , Director of Belgorod State University's Centre for Genomic Breeding, Doctor of Biological Sciences, Professor (Belgorod, Russia)	Assessment of genetic diversity and relationship of eight Russian and Ukrainian breeds of cattle based on microsatellite markers
23.	16:15 – 16:30	Vladimir Chernyavskikh , Deputy Director for Research, Federal Scientific Center for Feed Production and Agroecology named after V.R. Williams, (Moscow, Russia)	Development of modern breeding and seed production of forage crops in Russia
24.	16:30 – 16:45	Svetlana Kontsevaya , Head of the Center for Innovative Veterinary Medicine of Belgorod State Agricultural University named after V. Gorin, Doctor of Veterinary Sciences, Professor (Belgorod, Russia)	Biosecurity as the basis of pharmaceutical production and veterinary medicine
25.	16:45 – 17:00	Elena Kalashnikova , Head of the Department of Biotechnology, Russian State Agrarian University – Moscow Timiryazev Agricultural Academy, Doctor of Biological	Modern aspects of strategically important crops agrotechnologies

		Sciences (Moscow, Russia)	
26.	17:00 – 17:15	Irina Spichak , Director of the Institute of Pharmacy, Chemistry and Biology, Belgorod National Research University, Doctor of Pharmaceutical Sciences, Professor, Deputy Chairman (Belgorod, Russia)	Summing up and closing of the plenary session within <i>the III International Symposium «Innovations in Life Sciences»</i>

May 28, 2021

SESSION OF

Sections of the International Symposium «Innovations in Life Sciences»
Performance has 7-minute limit

Section «Ecological Questions, Environmental Issues and Environmental Education in Modern World»

(Moderator of the section is Andrey Prisnyi)

Video conferencing access mode: ZOOM platform

10:00 – 13:30 Section meeting

13:30 – 14:00 Break

14:00 – 16:00 Continuation of the section meeting. General discussion

№	Speaker's full name	Report title
1.	Shohista Samatova Karshi State University (Uzbekistan)	Influence of the granulometric composition of the soil on the decorative qualities of Cannes
2.	Nguyen Xuan Cuong Laboratory of Energy and Environmental Science, Institute of Research and Development, Duy Tan University (Da Nang, Vietnam)	Engineered biochar derived from agrowaste for treating anionic dye in water
3.	Andrey Prisnyi Belgorod National Research University (Belgorod)	Comparative physiological approach to the classification of insect hemocytes
4.	Valeria Adamova Belgorod National Research University (Belgorod)	Potential distribution of the terrestrial mollusk <i>Massylaea vermiculata</i> (O.F. MÜLLER, 1774) under climate change
5.	Dao Mi Uien Kazan National Research Technological University (Kazan)	Preparation of spherical sorbent from <i>Litsea glutinosa</i>
6.	Angelica Gorbacheva Belgorod National Research University (Belgorod)	Prospects for the medicinal hyssop (<i>H. officinalis</i> L.) cultivation under the conditions of the Belgorod region as the basis for the biological diversity of pollinating insect conservation
7.	Luiza Sayfutdinova Belgorod National Research University (Belgorod)	Indicators of the blood system under the conditions of the lung pathology development
8.	Vladimir Chernyavskikh	Study of sickle-shaped alfalfa wild

	Belgorod National Research University (Belgorod)	populations of the Central Russian Upland
9.	Natalia Sopina Belgorod National Research University (Belgorod)	Study of the lawn direction clover (<i>Trifolium repense L.</i>) breeding samples
10.	Mikhail Marynich Belgorod National Research University (Belgorod)	Environmental testing of lawn direction <i>Festuca arundinaceae Sherb.</i> breeding samples
11.	Mikhail Marynich Belgorod National Research University (Belgorod)	Environmental testing of lawn direction <i>Festuca rubra L.</i> breeding samples
12.	Natalia Romanenko Belgorod National Research University (Belgorod)	The experience of introducing the species <i>Salvia nutans L.</i> into the crop
13.	Margarita Kononova Belgorod National Research University (Belgorod)	Helminths of lake frog in the river Polnaya (the Kursk region)
14.	Ekaterina Konchenko Belgorod National Research University (Belgorod)	Adaptation of the integumentary tissue of the <i>Ornithogalum kochii Parl.</i> leaves
15.	Jurabek Toshtemirov Belgorod National Research University (Belgorod)	The number of plants possessed bioresource value chromosomes
16.	T. Litovkina Belgorod National Research University (Belgorod)	About some features of the Bieberstein tulip leaf anatomy
17.	Natalia Sopina Belgorod National Research University (Belgorod)	Age aspects of adaptation of different educational profiles female students
18.	N. Goncharova Belgorod National Research University (Belgorod)	Features of female first-year students' adaptation by the heart rate variability parameters
19.	Elena Khorolskaya Belgorod National Research University (Belgorod)	Psychophysiological status and adaptation of female first-year medical school students under the educational process
20.	Elena Khorolskaya Belgorod National Research University (Belgorod)	The level of stress experienced as an objective indicator of the female students' adaptation
21.	Daria Maslova Belgorod National Research University (Belgorod)	The functional status of the adolescents' blood system during the initial military registration
22.	Alexander Korneev Belgorod National Research University (Belgorod)	Metabolic status of students by parameters of bioelectrical impedance

	University (Belgorod)	analysis
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**Section «Pharmaceutical cluster as an integration of science,
education and production»**

(Moderators of the section are Elena Zhilyakova, Irina Zhirova)

Video conferencing access mode: ZOOM platform

10:00 – 13:30 Section meeting

13:30 – 14:00 Break

14:00 – 16:00 Continuation of the section meeting. General discussion

№	Speaker's full name	Report title
1.	Ekaterina Boyko Belgorod National Research University (Belgorod)	Increasing the competitiveness of pharmacy organizations using information technologies
2.	Natalia Alekperova Bogomolets National Medical University (Kyiv, Ukraine)	Relevance and main provisions of the author's discipline «Leadership in Pharmacy»
3.	Anastasia Goncharova Belgorod National Research University (Belgorod)	The main directions of minimizing the degree of environmental pollution by pharmaceutical substances
4.	Sergey Gubsky Kharkiv State University of Food Technology and Trade (Kharkiv, Ukraine) Irina Zhirova Belgorod National Research University (Belgorod)	Assessment of community pharmacists activities use of behavioural pharmaceutical care scale
5.	Yulia Kharchenko Belgorod National Research University (Belgorod)	Analysis of the pharmaceutical market of veterinary drugs in the Russian Federation based on milk protein
6.	Daria Tetyukhina Belgorod National Research University (Belgorod)	Analysis of the regional market of drugs potential for the adolescents with arterial hypertension treatment
7.	Alina Ivaschenkova Belgorod National Research University (Belgorod)	Study of the Russian Federation population opinion on the advisability of introducing remote pharmaceutical consulting
8.	Elena Vechtomova Kemerovo State University (Kemerovo)	Comparative characteristics of dietary supplements based on animal fats
9.	Nikolay Boyko Peoples' Friendship University of Russia (Moscow)	Prospects for the development of complex processing of eucalyptus prutoid leaves
10.	Elena Rogozhnikova	Improvements in the technology of

	The Closed Joint-stock Company «Ecolab», All-Russian Research Institute of Medicinal and Aromatic Plants (Moscow)	obtaining tinctures from various types of medicinal plant raw materials
11.	Alexander Bondarev Director of the Central Regional Hospital Pharmacy (Shebekino)	Structural features of medicinal substance mineral carriers
12.	Daria Fadeyeva Belgorod National Research University (Belgorod)	Problems and prospects of training students of the specialty «Pharmacy» by an interlingua
13.	Natalya Avtina Belgorod National Research University (Belgorod)	Development of the composition and technology of wound healing action biopolymer films
14.	Anastasia Malyutina Belgorod National Research University (Belgorod)	Study of the using weeds possibility as medicinal plant raw materials
15.	Natalia Shestopalova Belgorod National Research University (Belgorod)	Phytoncide activity of genus <i>Ficus</i> (<i>Ficus</i>) plants under the conditions of Belgorod National Research University Winter Garden
16.	Valeria Gulyayeva Belgorod National Research University (Belgorod)	Prospects for the use of lactoferrin in medicine and pharmacy
17.	Balul Gadir Belgorod National Research University (Belgorod)	Development of the composition, technology and analytical support of a medicinal product for the otitis treatment

**Section «Fundamental and applied aspects of
biotechnology and microbiology»**

(Moderator of the section is Irina Batlutskaya)

Video conferencing access mode: ZOOM platform

09:30 – 10:00 Participant registration

10:00 – 12:45 Section meeting

12:45 – 13:00 General discussion

№	Speaker's full name	Report title
1.	Guodong Hu Dezhou University (Dezhou, China)	Mg ²⁺ ions help riboswitch bind ligands
2.	Bailing Zhou Dezhou University (Dezhou, China)	The updated database and prediction method of functional long non-coding RNAs.
3.	Akbota Kanagat Al-Farabi Kazakh National University, department of biotechnology (Almaty, Kazakhstan)	Biotechnology Xanthan Gum Fermentation by <i>Xanthomonas campestris</i>
4.	Yelena Brazhnikova Al-Farabi Kazakh National University, department of biotechnology (Almaty, Kazakhstan)	Effect of Plant Growth Promotion Fungi by Treatment of Agricultural Crops
5.	Konstantin Boyarshin Belgorod National Research University (Belgorod)	Dominant species and taxonomic composition of the bacterial component of the chernozem soil after spring warming microbiota
6.	Yulia Kurkina Belgorod National Research University (Belgorod)	Taxonomic analysis of the rhizosphere phytopathogenic mycocomplex of different varieties of <i>Vicia faba L.</i> in the conditions if the Central Chernozem zone of the Russian Federation
7.	Ngo Thi Diem Kieu Belgorod National Research University (Belgorod)	Causes and consequences of mycosis of common beans
8.	Alina Avakova Belgorod National Research University (Belgorod)	Antagonistic action of the phenazine-forming <i>Pseudomonas chlororaphis 3</i> strain against the phytopathogenic bacterium of the genus <i>Ralstonia</i>
9.	Mikhail Goyanov	Bacteria of the genus <i>Exiguobacterium</i> :

	Belgorod National Research University (Belgorod)	a contribution to biotechnology
10.	Elizaveta Gubina Belgorod National Research University (Belgorod)	Biodegradability of indigenous soil bacteria pollutants evaluation
11.	Daniil Pribylov Belgorod National Research University (Belgorod)	Aboriginal strain <i>Janthinobacterium lividum</i> is a producer of violacein
12.	Dilmurod Murodullaev Belgorod National Research University (Belgorod)	Degradation of benzoate by bacteria inhibited the growth of phytopathogenic microorganisms
13.	Ta Thi An Van Belgorod National Research University (Belgorod)	Analysis of the some technogenically disturbed soils general toxicity using plant biotests
14.	Eugenia Bochkareva Belgorod National Research University (Belgorod)	Antimutagenic activity of probiotic drugs on the example of <i>Drosophila</i>

Section «Innovation in Food Industry Technology»

(Moderator of the section is Nina Myachikova)

Video conferencing access mode: ZOOM platform

10:00 – 13:30 Section meeting

13:30 – 14:00 Break

14:00 – 16:00 Continuation of the section meeting. General discussion

№	Speaker's full name	Report title
1.	Alexander Krolevets Regional Open Social Institute (Kursk) Nina Myachikova Belgorod National Research University (Belgorod)	Nanostructured Boswellia: properties and application in functional foods
2.	Nina Myachikova Belgorod National Research University (Belgorod)	Technological properties of cultivated <i>Pleurotus ostreatus</i> mushrooms and their influence on the choice of culinary processing methods
3.	Marina Manukovskaya Voronezh State University of Engineering Technologies (Voronezh) Irina Shchetilina Voronezh State University of Engineering Technologies (Voronezh)	Influence of ultrasonic extraction on the antioxidant activity of functional beverages
4.	Olga Binkovskaya Belgorod National Research University (Belgorod)	Functional foods in the nutrition of preschool children
5.	Anna Vasyukova Moscow State University of Technology and Management named after K.G. Razumovsky (First Cossack University) (Moscow) Nina Myachikova Belgorod National Research University (Belgorod)	Optimization of malt type and concentration in bakery products
6.	Lidia-Ioana Virchea, Monica Mironescu, Felicia Gabriela Gligor, Adina Frum, Cecilia Georgescu University «Lucian Blaga» of	Phytochemical analysis and antioxidant assay of <i>Melissa officinalis</i> L. (lemon balm)

	Sibiu (Sibiu, Romania) Nina Myachikova Belgorod National Research University (Belgorod)	
7.	Olga Kutina Russian Federal Research Institute of Fisheries and Oceanography (Moscow) Nina Myachikova Belgorod National Research University (Belgorod)	Development of functional culinary fish products with specified characteristics of distinctive properties
8.	Ekaterina Pozhidaeva Voronezh State University of Engineering Technologies (Voronezh)	Investigation of the lacto- and bifidobacteria consortium biomass cultivation process in the presence of prebiotic components
9.	Natalya Rodionova Voronezh State University of Engineering Technologies (Voronezh)	The use of emulsifiers in the technology of bioactive vegetable oil probiotic emulsions
10.	Yuri Boltenko Belgorod National Research University (Belgorod)	Influence of fatty products on the rheological properties of wheat dough after kneading
11.	Lilia Gabdukaeva Kazan National Research Technological University (Kazan)	The use of plant extracts to increase the shelf life of semi-finished meat products
12.	Radmil Nigmatzyanov Kushnarenkovsky breeding center of fruit and berry crops and grape of the Bashkir Research Institute of Agriculture, Republic of Bashkortostan, Institute of Strategic Studies of Bashkortostan Republic (Ufa)	Correlations of Polyphenolic Substances in <i>Ribes Aureum Purch</i> (<i>Grossulariaceae</i>) Fruits
13.	Vladimir Sorokopudov Russian State Agrarian University – Moscow Timiryazev Agricultural Academy (Moscow)	Nutritional value of viburnum fruits (<i>Viburnum l. – adoxaceae</i>)
14.	Victoria Evlash Kharkiv State University of Food Technology and Trade (Kharkiv, Ukraine)	The technology of the dietary supplement «Solevit Mg» and its use in food rations

Section «Horizons in modern Chemistry»

(Moderators of the section is Olga Lebedeva)

Video conferencing access mode: ZOOM platform

10:00 – 13:30 Section meeting

13:30 – 14:00 Break

14:00 – 16:00 Continuation of the section meeting. General discussion

№	Speaker's full name	Report title
1.	Le Van Thuan Duy Tan University (Da Nang Vietnam)	Enhanced adsorption and photocatalytic degradation of ciprofloxacin using Cu/Fe ₃ O ₄ /carboxylate-rich carbon composite
2.	Nguyen Xuan Cuong Duy Tan University (Da Nang, Vietnam)	Engineered biochar derived from agrowaste for treating anionic dye in water
3.	Dao Mi Uien Kazan National Research Technological University (Kazan)	Preparation of spherical sorbent from <i>Litsea glutinosa</i>
4.	Larisa Trubachyova Udmurt State University (Izhevsk)	New mineral-organic media for the formation of selective electroanalytical responses of metals
5.	Danila Kalinkin Belgorod National Research University (Belgorod)	Peculiarities of anthocyanins extraction and purification
6.	Vladimir Bukhanov Belgorod National Research University (Belgorod)	Isolation of microorganisms from the intestines of infected animals after the use of enterosorbent
7.	Alexander Vezentsev Belgorod National Research University (Belgorod)	The material composition and textural characteristics of the Podgorensky deposit clay
8.	Daniil Trufanov Belgorod National Research University (Belgorod)	Determination of the montmorillonite content in clays of the Podgorensky and Nikolsky deposits
9.	Mikhail Trubitsyn Belgorod National Research University (Belgorod)	Investigation of the electrokinetic properties of biomimetic calcium- phosphate nanocomposite doped with silicate and carbonate anions
10.	Hoang Viet Hung Belgorod National Research	Evaluation of biocompatibility and osteoinductive properties of

	University (Belgorod)	biomimetic calcium-phosphate nanocomposite doped with silicate and carbonate anions
11.	Taisiaya Burzhinskaya, Victor Deineka Belgorod National Research University (Belgorod)	Determination of carotenoids in the pulp of watermelons of various colors
12.	Lyudmila Deineka Belgorod National Research University (Belgorod)	Study of the anthocyanin preservation in the products of processing chokeberry
13.	Victoria Ignatyeva Belgorod National Research University (Belgorod)	Preservation and antioxidant activity of betacyanins at different pH values
14.	N. Syrykh Belgorod National Research University (Belgorod)	Obtaining syrups from flower petals containing anthocyanins and studying their properties
15.	Alina Ivanova Belgorod National Research University (Belgorod)	Carotenoids and other biologically active substances of some types of mountain ash
16.	Svetlana Lavrukhina Belgorod National Research University (Belgorod)	Optimization of HPLC methods for the determination of fat-soluble and water-soluble vitamins
17.	Pham Thi Chin Belgorod National Research University (Belgorod)	Evaluation of the potential of various plant wastes as a source of peroxidases for removing the dye bromophenol blue from water
18.	Viktorija Lisniak Belgorod National Research University (Belgorod)	Adsorption of saccharose on hydroxyapatite
19.	Nguyen Thi Diem Huong Belgorod National Research University (Belgorod)	Aggregation of cationic surfactants in aqueous-alcoholic solutions
20.	Lyubov Furda Belgorod National Research University (Belgorod)	Catalytic properties of aluminosilicates synthesized by the sol-gel method
21.	Anna Mkrtchyan Yerevan State University (Yerevan, Armenia)	Asymmetric synthesis of heterocyclic substituted derivatives of (S) - alanine
22.	Sergey Gubsky Kharkiv State University of Food Technology and Trade (Kharkiv, Ukraine)	Rheology and microstructure of vitamin D3 delivery systems based on «oil-in-water» emulsions
23.	Nguyen Van Tuan Ho Chi Minh City University of	Kinetic regularities of the oxidation of a sulfide sulfur solution in the presence

	Natural Resources and Environment (Ho Chi Minh City, Vietnam)	of a catalyst based on stilbenequinone
24.	Diana Akhmedova MIREA — Russian Technological University, Moscow State University of Fine Chemical Technologies named after M.V. Lomonosov (Moscow)	Microfluidic technology in the aspect of an oligoalkylene guanidine derivative synthesis
25.	Valeria Volobueva Al-Farabi Kazakh National University (Almaty, Kazakhstan)	Inactivation of nitrofurals
26.	Zhansaya Zhadil Al-Farabi Kazakh National University (Almaty, Kazakhstan) Belgorod National Research University (Belgorod)	Influence of polymer-surfactant complexes on pathogens of agricultural crops
27.	Eugenia Nakisko Belgorod National Research University (Belgorod)	Characteristics of the phase composition and some physicochemical properties of iowaite - a mineral of the supergroup of hydrotalcite

Section «Innovative approaches in plant biotechnology, agrobiophotonics, the influence of genetic and biochemical factors on plant development for the agro-industrial complex and bioresource collections»

(Moderator of the section is Elena Maslova)

Video conferencing access mode: ZOOM platform

10:00 – 12:00 Section meeting

№	Speaker's full name	Report title
1.	Yuri Maslakov LLC «INVITRO VISION» (Belgorod)	Automated system for monitoring the dynamics of plant growth and development <i>in vitro</i>
2.	Vladimir Yatsenko LLC «ElSis BSU» (Belgorod)	About the prospects of using phyto shelf system X-bright Fito LED in micropropagation of agricultural plants
3.	Andrey Pyatykh, Alexander Akinchin, Ivan Partolin Belgorod State Agricultural University named after V. Gorin, LLC «Gelan» (Belgorod)	The success of decorative woody plant rooting cuttings under artificial lighting by LED lighting equipment
4.	Tatiana Grodetskaya Voronezh State University of Forestry and Technologies Named after G.F. Morozov (Voronezh)	Effect of <i>Alternaria alternata</i> on the expression of <i>in vitro</i> birch clones resistance genes
5.	Tatiana Glodik Belgorod National Research University (Belgorod)	Obtaining the callus of <i>Salvia aethiopsis</i> and determining its growth potential
6.	Olga Mironova Botanical Garden of Moscow State University, Pharmaceutical Garden (Moscow)	Growing plants with predetermined properties in greenhouses
7.	Ngo Thi Diem Kieu Department of Science and Technology of Quang Ngai Province (Vietnam)	Mycoses of vegetable beans and their pathogens
8.	Yulia Kurkina Belgorod National Research University (Belgorod)	Taxonomic analysis of soil phytopathogenic mycocomplexes of different varieties of vegetable beans under the Central Chernozem region conditions
9.	Yuri Vlasenko Belgorod National Research University (Belgorod)	Obtaining an isolated culture of the genus <i>Salvia</i> of the <i>Lamiaceae</i> family representative <i>in vitro</i>

10.	Vladislav Chernykh Belgorod National Research University (Belgorod)	Introduction of family <i>Lamiaceae</i> plants to <i>in vitro</i> culture
11.	Anastasia Timoshicheva Belgorod National Research University (Belgorod)	Obtaining aseptic plants <i>Centaurea ruthenica</i> (<i>Asteraceae</i>) under the conditions of <i>in vitro</i> culture
12.	Valeria Semykina Saint Petersburg National Research University of Information Technologies Mechanics and Optics, Saint Petersburg, Belgorod National Research University (Belgorod)	Cultivation of Baikal skullcap <i>in vitro</i>
13.	Elena Maslova Belgorod National Research University (Belgorod)	Influence of the light spectral composition on the morphometric parameters of potatoes in the microclonal reproduction process
14.	Inna Knyazeva Federal Scientific Agroengineering Center VIM (Moscow)	Microalgae is an unclaimed bioenergy resource in Russia
15.	Daria Khlebnikova Russian State Agrarian University – Moscow Timiryazev Agricultural Academy (Moscow)	Organ-specificity of flavonoid accumulation in aseptic plants <i>Satureja hortensis L.</i>
16.	Diana Yukhimchuk Russian State Agrarian University – Moscow Timiryazev Agricultural Academy (Moscow)	Suspension cell culture <i>Dracocephalum moldavica L.</i>
17.	Slavik Dadayan Yerevan State University (Yerevan, Armenia)	Analysis of the content of organic acids in the sea-buckthorn fruit press cake
18.	Daria Bugaeva Sokolniki 1282 school (Moscow)	Study of the influence of natural and artificial lighting on the varieties of salads «Vitaminny» and «Buket»

**Section «Biosecurity as the basis of pharmaceutical production
and veterinary medicine»**

(Moderator of the section is Svetlana Kontsevaya)

Video conferencing access mode: ZOOM platform

10:00 – 12:30 Section meeting

№	Speaker's full name	Report title
1.	M. Pshenichnov Training Center of the company «Apicenna» (Moscow)	Production of veterinary drugs according to GMP standards / Modern drugs that exclude milk rejection
2.	Larisa Karpenko Saint Petersburg State University of Veterinary Medicine (Saint Petersburg)	Review of biochemical and immunobiological status of animals within biological safety
3.	Ivan Kolesnichenko Russian Academy of Human Resources of the Agro-industrial Complex (Moscow)	Ensuring biosafety and biosecurity of biological profile objects
4.	Irina Khlusova Russian Academy of Human Resources of the Agro-industrial Complex (Moscow)	Opportunities to improve knowledge level and gain new competencies in the field of biological safety
5.	Natalya Mantatova Buryat State Agricultural Academy Named After V.R. Filippov (Ulan-Ude)	Biosecurity of fur products of fur-bearing animals using natural zeolites of the Kholinsky deposit
6.	Vladimir Lutsay Moscow State University of Food Production (Moscow)	Mechanisms of the animal atopic dermatitis origin
7.	Vladislav Bychkov Russian State Agrarian University – Moscow Timiryazev Agricultural Academy (Moscow) Ivan Makarov Veterinary Clinic «Jungli» (Moscow)	Development and application of osteoplastic materials in dentistry of small pets
8.	Alyona Linovitskaya Kolomna Agricultural College (Kolomna) Svetlana Kontsevaya Belgorod State Agricultural University named after V. Gorin	Production of enzyme-linked immunosorbent assay test strips for cat toxocariasis from high-tech and environmentally friendly biomaterials

	(Belgorod)	
9.	Anna Parshikova Farmer Blogger, «Farming Inside Out» Platform (Moscow Oblast)	Ensuring the biosafety of animal husbandry under the conditions of farms and personal subsidiary plots
10.	Alexey Lavrik LLC «NoviStem» (Belgorod)	Regenerative technologies in industrial animal husbandry are an effective alternative to antibiotics
11.	Irina Golovkova LLC «Vetmarkirovka» (Moscow Oblast)	Identification is a biosafety tool
12.	Valentin Khlusov Center for professional retraining and advanced training of workers of the agro-industrial complex, Moscow State Academy of Veterinary Medicine and Biotechnology - MVA named after K.I. Skryabin (Moscow)	Territory security. Waste recycling

Section «Nano-biosensor and computer biology in life science»

(Section leader is Jian Liu)

Video conferencing access mode: ZOOM platform

10:00 – 12:00 Section meeting

№	Speaker's full name	Report title
1.	Dr. Chonghui Li	Location hot charge density regulation: vibration-free pyroelectric nanogenerator for effectively enhancing catalysis and in-situ surface enhanced Raman scattering monitoring
2.	Prof. Qian Li	Fabrication of the polyelectrolyte-based membrane through a scalable layer-by-layer assembly strategy
3.	Dr. Naif Mohammad Ali Al-Hada	Fabrication and characterization of binary oxide nanoparticles manufactured using calcination technique
4.	Dr. Hussein Abdullah	Microstructural and optical properties of films by sol-gel method: Effect of Acetylacetone concentration
5.	Ms. Meng Tian	Research and Application of Graphene Biosensors