

**MINISTRY OF HIGHER EDUCATION, SCIENCE  
AND INNOVATIONS OF THE REPUBLIC OF UZBEKISTAN**  
**KIMYO INTERNATIONAL UNIVERSITY IN TASHKENT**



KIMYO INTERNATIONAL  
UNIVERSITY IN TASHKENT



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# PROGRAMME

**International scientific and  
practical conference**

**"MODERN TRENDS IN THE DEVELOPMENT  
OF CHEMICAL AND BIOLOGICAL  
TECHNOLOGIES"**

*Tashkent, Uzbekistan  
22 September, 2023*

**"MODERN TRENDS IN THE DEVELOPMENT OF CHEMICAL AND BIOTECHNOLOGIES"  
INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE**

**22.09.2023**

<b>09:00 – 10:00</b>	<b>REGISTRATION</b> <b>(Block B, 9th floor, conference hall)</b>
	<b>MODERATOR:</b> <b>Akhmedjanov Karimjon Bakidjanovich</b> – Vice-rector for Education Quality and International Cooperation at Kimyo International University in Tashkent, Doctor of Science in Economics, Professor
<b>10:00 – 10:10</b>	<b>OPENING SPEECH:</b> <b>Kudaibergenov Janpolat Shamuratovich</b> – Rector of Tashkent International University Kimyo
<b>10:10 – 10:20</b>	<b>GREETING SPEECH:</b> <b>Turdikulova Shakhlo Utkurovna</b> – Deputy Minister of Higher Education, Science and Innovation of the Republic of Uzbekistan, Doctor of Biological Sciences, Professor
<b>10:20 – 10:30</b>	<b>GREETING SPEECH:</b> <b>Kasimkhodjaeva Dinora Abrarovna</b> – Quality Director of JSC AI "Toshkentvino Combine"
<b>10:30 – 12:30</b>	<b>PLENARY SESSION</b>
<b>10:30 – 10:45</b>	<b>Khakimov Bekzod (Denmark)</b> – Professor of the Department “Food Analysis and Biotechnology” Food Analytics and Biotechnology, University of Copenhagen, Denmark <b>What can Foodomics offer to improve human wellbeing and sustainable food production</b>
<b>10:45 – 11:00</b>	<b>Smelov Vladimir Vladislavovich (Republic of Belarus)</b> – Head of the IT Department of BSTU, DSc <b>Digital transformation in industry: IT enterprises, clusters, platforms, ecosystems</b>
<b>11:00 – 11:15</b>	<b>Sagdullaev Bahodir Tahirovich (Uzbekistan)</b> – Director of the Intellectual Property Center under the Ministry of Justice of the Republic of Uzbekistan <b>Protection of intellectual property in the field of pharmaceuticals in Uzbekistan</b>
<b>11:15 – 11:30</b>	<b>Ying-Jun Zhang (China)</b> – Professor of the Laboratory “Phytochemistry and Plant Resources” of the Institute of Botany of Kunming, Academy of Sciences of China (CAS) <b>Chemical constituents from original &amp; related plants of Triphala and their bioactivities</b>
<b>11:30-11:45</b>	<b>Djumaniyazova Gulnara Ismailovna (Uzbekistan)</b> – Deputy Director for Quality of Innovation Ideas LLC, Doctor of Biological Sciences, Professor <b>The innovative resource-saving biotechnology and food security</b>

<b>11:45 – 12:00</b>	<b>Krivoruchko Anastasia (Russia)</b> – Head of the Laboratory of Mechanobiology of Living Systems of the Perm Federal Research Center of the Ural Branch of the Russian Academy of Sciences, Associate Professor of the Perm State National Research University, Doctor of Biological Sciences.  <b>Obtaining biotechnologically promising exopolysaccharides from immobilized Rhodococci</b>
<b>12:00 – 12:15</b>	<b>Akhmedova Zahro Rakhmatovna</b> - Head of the Laboratory of the Institute of Microbiology of the Academy of Sciences of the Republic of Uzbekistan  <b>Basidial fungi in the processing of industrial waste</b>
<b>12:15 – 12:30</b>	<b>Mirzarakhmetova Dilbar Tokhtamuratovna (Uzbekistan)</b> – Head of the Department of Chemistry and Biology, Tashkent International University of Kimyo, Doctor of Technical Sciences  <b>A new specific approach to improve the bouquet and taste of alcoholic beverages: enzymatic esterification of toxic higher alcohols</b>
<b>12:30 – 12:40</b>	<b>QUESTIONS AND ANSWERS (DISCUSSION OF REPORTS)</b>
<b>12:30 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 16:30</b>	<b>SECTIONAL DISCUSSIONS</b>
<b>16:30 – 17:00</b>	<b>CERTIFICATE AWARD CEREMONY</b> <b>CLOSING CEREMONY</b>



#### **ZOOM link to join the conference:**

Link:

<https://us06web.zoom.us/j/89087054044?pwd=yohToCeeA3waLrdVLTDAjbh7KejUIX.1>

Meeting ID: 890 8705 4044

Passcode: 260432

**SECTION I.**  
**ACTUAL PROBLEMS OF CHEMICAL AND BIOLOGICAL TECHNOLOGIES**  
**22.09.2023**

	<b>Section heads: Doctor of Technical Sciences, Assoc. Mirzarakhmetova D.T., Doctor of Biological Sciences., Jumaniyazova G.I. B - block, 9th floor, conference hall</b>
<b>PRESENTATIONS</b>	
14:00 – 14:15	<b>Mirzarakhmetova Dilbar Tokhtamuratovna (Uzbekistan)</b> – Head of the Department of Chemistry and Biology, Tashkent International University of Kimyo, Doctor of Technical Sciences  <b>The application of immobilized enzymes in the food industry</b>
14:15 – 14:30	<b>Shakirov Zair Saatovich</b> - Professor, Institute of Microbiology of the Academy of Sciences of the Republic of Uzbekistan  <b>Acid phosphatase activity in rhizobacteria of Uzbek wheat varieties</b>
14:30– 14:45	<b>Asimova Nodira Atham kizi</b> - Master's student of KIUT  <b>A promising yeast strain for the production of dark special beer</b>
14:45 – 15:00	<b>Atajanova Zamira Yusupovna</b> – independent researcher of KIUT  <b>Terpenoids and phenolic compounds of the plant Centaurea ugamica</b>
15:00 – 15:15	<b>Abduvalieva Lobar Komiljon kizi (Uzbekistan)</b> - Master's student of KIUT  <b>Cultivation of microalgae in a closed system</b>
15:15 – 15:30	<b>Mustafayeva Gulmira Turalieva (Uzbekistan)</b> - teacher of KIUT  <b>New bioagrotechnology of cultivation of immortelle</b>
15:30 – 15:45	<b>Ibodullayeva Mukaddas Olimboevna</b> – independent researcher of KIUT  <b>Terpenoids and phenolic compounds of plants <i>Helichrysum nuratavicum</i> u <i>Helichrysum mussae</i></b>
15:45 – 16:00	<b>Turatbekova Aidai Turatbekovna</b> - Master's student of KIUT  <b>Biotechnology of obtaining the sum of plant flavonoids</b>
16:00 – 16:15	<b>DETERMINATION OF THE BEST ABSTRACTS BY SECTION</b>

**SECTION II.**  
**BIOTECHNOLOGICAL SOLUTIONS IN AGRICULTURE AND FOOD INDUSTRY**  
**22.09.2023**

	<b>Section heads: Prof. Smelov V.V., Prof. Sagdullaev B.T. B - block, 6<sup>th</sup> floor, 607 - auditorium</b>
<b>PRESENTATIONS</b>	
14:00 – 14:15	<b>Djumaniyazova Gulnara Ismailovna</b> , Professor, Doctor of Biological Sciences, Deputy Director of Science of INNOVATION-IDEAS LLC <b>Biofertilizers of the new generation – stimulators of growth and development of medicinal plants</b>
14:15 – 14:30	<b>Pulatkholzhayeva Zilolakhon Hikmatullayevna</b> , PhD doctoral student of Tashkent State Technical University, <b>The elemental composition of some medicinal plants</b>
14:30 – 14:45	<b>Kadirova Zukhra Abrarovna</b> , PhD, Associate Professor of the National University of Uzbekistan named after M.Ulugbek <b>Antibacterial and immunostimulating properties of Physalis alkekengi plant extracts</b>
14:45 – 15:00	<b>Kalandarov Tulkinjon Saparbaevich (Uzbekistan)</b> , candidate of the Karakalpak Scientific Research Institute of Agriculture <b>The influence of new generation biofertilizers on the development of cotton on saline soils of Karakalpakstan</b>
15:00 – 15:15 (online)	<b>Matveeva Tatiana Valeryevna (Russia)</b> , Doctor of Biological Sciences, Professor of the Department of Genetics and Biotechnology of St. Petersburg State University <b>People have been eating GMOs all their history</b>
15:15 – 15:30 (online)	<b>Dzhusupova Daria Bekaydarovna (Kazakhstan)</b> - Doctor of Biological Sciences, Professor of the Kazakh National Pedagogical University named after Abai <b>Biotechnology of environmental purification from petroleum products</b>
15:30 – 15:45 (online)	<b>M.R.Ramazani Moghaddam (Iran)</b> Professor of the Research Department of Plant Growing and Horticulture, Scientific and Educational Center of Agriculture and Natural Resources Khorasan Razavi <b>How to manage saline soils and waters for crop production?</b>
15:45 – 16:00 (online)	<b>Zahra Naghibi, PhD (Iran)</b> , Mashhad University of Medical Sciences <b>Therapeutic potential of phytotherapy for cholestasis: from bench to bed</b>
16:00 – 16:15	<b>DETERMINATION OF THE BEST ABSTRACTS BY SECTION</b>

**ZOOM link to join the conference:**

Link:

<https://us06web.zoom.us/j/83234568820?pwd=Sj5mgaC7XqoK8oqFYMoRlrBeKov1wh.1>

Meeting ID: 832 3456 8820

Passcode: 439225

**SECTION III.**  
**BIOTECHNOLOGY AND CHEMICAL TECHNOLOGIES:**  
**TECHNICAL SOLUTIONS TO PROBLEMS**  
**22.09.2023**

	<b>Section heads: Abduvakhidov K., Khidirova M.B., D.Sc . B - block, 6<sup>th</sup> floor, 605 - auditorium</b>
<b>PRESENTATIONS</b>	
14:00 – 14:15	<b>Nurieva Darya Sergeevna (Russia)</b> – student of Perm State National Research University <b>Obtaining biotechnologically promising exopolysaccharides</b>
14:15 – 14:30	<b>Akhmet Ainagul (Kazakhstan)</b> PhD, Researcher at the Research Center "Biotechnology", South Kazakhstan University <b>Study of the species composition of microbial populations of sulfide ores</b>
14:30 – 14:45	<b>Bogatov Zhakhongir Mukhammadzhonovich</b> (PhD) Associate Professor, Joint Belarusian - Uzbek Interdisciplinary Institute of Applied Technical Qualifications in Tashkent <b>Technological processes of saturation of steel with nitrogen and carbon</b>
14:45 – 15:00	<b>Soldatova Angelina Valentinovna.</b> Center of Advanced Technologies under the Ministry of Higher Education, Science and Innovation of the Republic of Uzbekistan, Tashkent State Technical University named after I. Karimov <b>Algorithm of semi-automatic method of measuring infarction after ischemic stroke</b>
15:00 – 15:15	<b>Seitnazarov Miyribek Makhsetovich</b> , Senior Lecturer at KIUT. Kimyo international university in Toshkent <b>Effective disinfectants for the prevention of nosocomial infections</b>
15:15 – 15:30	<b>Abduvaliev Anvar Arslanbekovich</b> , PhD, Associate Professor, Kimyo international university in Toshkent <b>Functional modeling of the regulator of the number of thyroid follicule cells</b>
15:30 – 15:45	<b>Savello Tatyana Vladimirovna (Uzbekistan)</b> - teacher of KIUT <b>The use of bacterial polysaccharides as stabilizers of cosmetics</b>
15:45 – 16:00	<b>Makhmudova Maftuna Uktamovna (Uzbekistan)</b> , Master's student of the National University of Uzbekistan named after M.Ulugbek <b>Cloning and analysis of phytochrome genes in tomato (<i>Solanum lycopersicum L.</i>)</b>
16:00 – 16:15	<b>DETERMINATION OF THE BEST ABSTRACTS BY SECTION</b>

**SECTION IV.**  
**INDUSTRIAL BIO- AND CHEMICAL TECHNOLOGIES AND**  
**THEIR INTEGRATION WITH SCIENCE**  
22.09.2023

	<b>Section heads: D.B.N. Krivoruchko A.V., PhD. Abdullaev A.O. B - block, 6<sup>th</sup> floor, 606 - auditorium</b>
<b>PRESENTATIONS</b>	
14:00 – 14:15	<b>Akhmedova Zahro Rakhmatovna</b> - Head of the Laboratory of the Institute of Microbiology of the Academy of Sciences of the Republic of Uzbekistan <b>Properties of soils of the airfield of the Syrdarya region contaminated with pesticides and heavy metals</b>
14:15 – 14:30	<b>Ibragimov Isfandier Valizhon ugli (Uzbekistan)</b> - Master's student of KIUT <b>Isolation of exopolysaccharide-producing halophilic bacteria</b>
14:30 – 14:45	<b>Eshbakova Komila Alizhanovna</b> – Senior Researcher of the Institute of Plant Chemistry of the Academy of Sciences of the Republic of Uzbekistan <b>Biological activity of triphala plant components</b>
14:45 – 15:00	<b>Davranbekova Diana Jamil kizi</b> - Master's student of KIUT <b>Plant stem cells</b>
15:00 – 15:15	<b>Murodova Shahzoda Zafar kizi</b> - student of KIUT <b>Flavonoids of Salvia sclarea L growing in Uzbekistan</b>
15:15 – 15:30	<b>Valieva Nilufar Pulatovna</b> - Master's student of KIUT <b>Isolation of carotenoid-producing halophilic bacteria</b>
15:30 – 15:45	<b>Mansurova Zukhra Komoliddin kizi (Uzbekistan)</b> – student of KIUT <b>The role and modern approaches of biotechnology in the cosmetic industry</b>
15:45 – 16:00	<b>Verushkina Olga Antonovna (Uzbekistan)</b> – Senior Researcher at the Institute of Microbiology of the Academy of Sciences of the Republic of Uzbekistan <b>Technology of cultivation of microalgae Dunaliella salina</b>
16:00 – 16:15	<b>DETERMINATION OF THE BEST ABSTRACTS BY SECTION</b>

**POSTER PRESENTATIONS**  
**(B-BLOCK, 9TH FLOOR, FOYER)**  
22.09.2023

**CLOSING OF THE CONFERENCE**