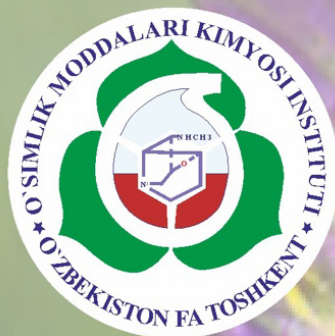


Academy of Sciences
of the Republic of Uzbekistan



*S. Yu. Yunusov Institute of the Chemistry of
Plant Substances AS RUz*

**INTERNATIONAL SCIENTIFIC AND
TECHNICAL CONFERENCE**

*Actual Problems of the
Chemistry of Natural Compounds*

PROGRAMME

**September 19–20, 2024
Tashkent**

CONFERENCE TOPICS

1. Chemistry, biology, pharmacology, and technology of natural compounds and their derivatives.
2. Successes and problems of creation of new drugs.

ORGANIZING COMMITTEE

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Tadjikulov A.	Usmanov D.A.
Adizov Sh.	Yusupova U.Y.

Acad. S.Yu. Yunusov Institute of the Chemistry of Plant Substances,
77, Mirzo-Ulugbek Str., Tashkent, 100170, Uzbekistan

19 SEPTEMBER

8.00–9.00 **Registration of the participants of the International Conference**
(Acad. S.Yu. Yunusov Institute of the Chemistry of Plant Substances,
Tashkent, M. Ulugbek st., 77)

9.00–9.20 **WELCOME SPEECH OF CHAIRMEN**

SH.SH. SAGDULLAEV – Member of the Senate of the Oliy Majlis,
Academician of the Academy of Sciences of the Republic of Uzbekistan, Director
of the S.Y. Yunusov Institute of the Chemistry of Plant Substances.

GREETING ADDRESSES

SH.U. TURDIKULOVA – Vice President of the Academy of Sciences of the
Republic of Uzbekistan.

HAN DEMIN – President of China International Exchange and Promotive
Association for Medical and Health Care, Academician at the Chinese
Academy of Engineering.

PLENARY PRESENTATIONS

Chairmen: Prof. A.A. Ustyugov

Secretary: Ph.D. M.A. Mamatkhanova

- 9.20–9.40 **R.Z. Sabirov.** ANION AND CATION CHANNELS AS
PHARMACOLOGICAL TARGETS.
- 9.40–10.00 **P. Nazarov.** ANTIBACTERIAL DRUGS OF PLANT ORIGIN: PROMISING
ANTIBACTERIAL THERAPEUTIC AGENTS AND VECTORS FOR THE
DELIVERY OF ACTIVE DRUGS.
- 10.00–10.20 **Yuanfeng Wu.** RESEARCHES ON THE ACTIVITIES AND
PREPARATION OF SULFORAPHANE FROM BROCCOLI (Online).
- 10.20–10.40 **Sh.S. Azimova.** BIOLOGICAL EFFECTS OF SOME 1-ALKYL AND 1-
ARIL TETRAHYDROIZOQUINOLINES AND MECHANISMS OF THEIR
ACTION.
- 10.40–11.00 **Thiruventhan Karunakaran.** THE CHEMISTRY OF KRATOM
(*MITRAGYNA SPECIOSA* KORTH.) LEAVES: DISPELLING MYTHS ON
THIS MALAYSIAN INDIGENOUS MEDICINAL PLANT (Online).
- 11.00–11.20 **Coffee break**

PLENARY PRESENTATIONS

Chairmen: Prof. S.F. Aripova

Secretary: Ph.D. R.F. Mukhamatkhanova

- 11.20–11.40 **E.A. Garaev.** SYNTHESIS, IDENTIFICATION AND *IN SILICO* STUDY OF
THE TRINITRO DERIVATIVE OF TROPIC ACID FROM THE ATROPIN
ALKALOID.
- 11.40–12.00 **Sh.Sh. Sagdullaev.** EFFECTIVENESS OF TRADITIONAL AND MODERN
METHODS FOR EXTRACTING ACTIVE COMPOUNDS FROM
MEDICINAL PLANTS.
- 12.00–12.20 **Octavio Calvo-Gomez.** BRASSICAS: HEALING VOLATILES.

- 12.20–12.40 **F.M. Tursunkhodzhaeva.** PHARMACOLOGICAL SCREENING OF PLANT DERIVED AND SYNTHETIC MOLECULES POSSESSING ANTIARRHYTHMIC AND NEUROPROTECTIVE PROPERTIES.
- 12.40–13.00 **N.Z. Mamadalieva.** METABOLOMIC DETERMINATION OF SPECIALIZED METABOLITES USING LIQUID CHROMATOGRAPHY–TANDEM MASS SPECTROMETRY IN SILENE SPECIES.
- 13.00–14.00 **Lunch**
- 14.00–15.00 **POSTER PRESENTATIONS AND EXCURSION OF GMP**

PLENARY PRESENTATIONS

Chairmen: Sh.S. Azimova

Secretary: E.R. Kurbanova

- 15.00–15.20 **Samiullah Khan.** COLLECTION AND CHARACTERIZATION OF METABOLITES OF MUSHROOMS FROM AZAD JAMMU AND KASHMIR, PAKISTAN (Online).
- 15.20–15.40 **N.A. Tagayalieva.** THERAPEUTIC INDEX IMPROVEMENT OF DOXORUBICIN-POLYGALACTURONANS CONJUGATE.

ORAL PRESENTATIONS

- 15.40–15.55 **Yergazy Shybyray.** THE CHEMICAL CONSTITUENTS AND BIOLOGICAL ACTIVITIES OF THE LEPIDIUM SATIVUM SEEDS.
- 15.55–16.10 **O.N. Ashirov.** PREPARATION OF LIPOSOMES FROM SOYBEAN PHOSPHOLIPIDS.
- 16.10–16.25 **D.A. Narbutaeva.** THE HYPOLYPIDEMIC EFFECT OF THE FLAVONOIDS SUM FROM CROCUS SATIVUS.
- 16.25–16.40 **Xue Wenjuan.** STUDY ON THE DITERPENOID ALKALOIDS FROM *Aconitum barbatum var puberulum* AND *Aconitum sinomontanum*.
- 16.40–17.00 **Break**

ORAL PRESENTATIONS

Chairmen: Dr. R.K. Rakhmanberdieva

Secretary: PhD. B.S. Okhudedaev

- 17.00–17.15 **K.A. Eshbakova.** FERLAPIOSIDE, NEW IRIDOID GLYCOSIDE FROM *Ferula lapidosa*.
- 17.15–17.30 **D.I. Kosimov.** MICROBIAL DEGRADATION OF THE PESTICIDE CHLORPYRIFOS.
- 17.30–17.45 **G.E.Saidova.** QUANTITATIVE DETERMINATION OF POLYSACCHARIDES FROM THE AERIAL PARTS OF *Capparis spinosa*
- 17.45–18.00 **A.U. Ubaydullaev.** EFFECT OF NITRATING COMPOUNDS ON THE QUINOLINE ALKALOID ACETYLPLOPHYLLIDINE

20 SEPTEMBER

PLENARY PRESENTATIONS

Chairmen: Prof. S.A. Sasmakov

Secretary: PhD. J.M. Abdurakhmanov

- 09.00–09.30 **E.Kh. Botirov.** PLANTS OF THE GENUS PEROVSKIA ARE A PROMISING SOURCE OF BIOLOGICALLY ACTIVE COMPOUNDS.
- 09.30–10.00 **Sh.N. Zhurakulov.** SYNTHESIS OF DERIVATIVES OF 1-ARYLTETRAHYDROISOQUINOLINE ALKALOIDS AND THEIR BIOLOGICAL ACTIVITY

ORAL PRESENTATIONS

- 10.00–10.15 **Gou Guanghui.** DISCOVERY AND NETWORK PHARMACOLOGY OF NOVEL DRUG SOURCE MOLECULES IN *Piper longum L.*
- 10.15–10.30 **U.M. Omanova.** FLAVONOIDS FROM *Oxytropis qmacrodonta* PLANT
- 10.30–10.45 **L.N. Ashurova.** SECONDARY METABOLITES OF *Saponaria officinalis* AND THEIR BIOLOGICAL ACTIVITY
- 10.45–11.0 **Break**
- 11.00–12.00 **DISCUSSION** will be managed by **Prof. A.A. Ustyugov** - Director of the Institute of Physiologically Active Compounds at the Federal Research Center of Problems of Chemical Physics and Medicinal Chemistry, Russian Academy of Sciences.
- 12.00–13.00 **CONCLUSION AND CLOSING CEREMONY**

POSTER PRESENTATIONS

1. D.R. Siddikov Chemical components of *Tribulus terrestris* meal
2. U.Yu. Yusupova Phytoecdysteroids of the plant of *Stachys byzantina*
3. D.E. Dusmatova Amination of lactone igalan with alkaloid cytosine
4. D.Sh. Tojiboeva Components of hexane extract of *Chrysanthemum koreanum* leaves cultivated in Uzbekistan
5. D.Sh. Tojiboeva Components of essential oils of flowers and leaves *Handelia trichophylla*
6. S.S. Omonova Flavonoid content in two types plants of the genus *heliotropium* of the flora of Uzbekistan
7. S.I. Atqiyayeva Volatile components of the root of *Perovskia scrophulariifolia*
8. D.E. Dusmatova Modification of sesquiterpene lactone igalan
9. M.U. Zhuraev Study of *Perovskia angustifolia* root components
10. S.Kh. Mullabaeva Volatile components of *Perovskia botschantzevii* roots
11. B.S. Okhundedaev Components of flowers *Achillea filipendulina*
12. B.S. Okhundedaev Aminomethylation of centaureidine
13. B.S. Okhundedaev Metabolites of *Artemisia juncea* aerial part
14. D.R. Siddikov Volatile compounds of *Crataegus songarica*
15. D.R. Siddikov Phenolic compounds *Crataegus songarica*
16. O. Alimuhammedova Internal control systems for pcr diagnostics
17. N.A. Tosheva Study of cytotoxic activity of compounds based on bicyclic quinazoline sulphonylureas
18. J.M. Abdurakhmanov New anti-hsv nucleoside analogues of 1,2,4-triazole-3-thione
19. J.M. Abdurakhmanov Purification of recombinant escherichia coli uridine phosphorylase by ion exchange media
20. D.B. Kadirova Alkaloids of plants of the genus *Convolvulus* growing in Uzbekistan
21. B.J. Komilov Sterols from *Centaurea belangeriana*
22. B.J. Komilov Flavonoids of *Centaurea ugamica*
23. K.S. Juraev Coumarins from *Ferula tadshikorum*
24. D. T. Asilbekova Fatty acid isomers and essential oils of *Ferula* species growing in Uzbekistan
25. F.A. Kengesbaeva Triterpene glycoside from the *Astragalus atrovinosus*
26. T.N. Kaypnazarov Triterpene glycoside of *Astragalus macronyx*
27. S.M. Turaeva Means for protecting winter wheat from *Schizaphis graminum* rondani
28. A.A. Ziyaev Modifications of 2-phenacylthio-5-aryl-1,3,4-oxadiazoles and 3-phenacylthio-5-(4H)- aryl-1,2,4-triazoles
29. A.U. Ubaydullaev Effect of nitrating compounds on the quinoline alkaloid acetylhaplophyllidine
30. A.U. Ubaydullaev Reaction of the quinoline alkaloid haplophyllidine with hydrochloride of monochloroacetic acid under different conditions
31. Yu.R. Mirzaev About the pharmacological properties of veralysinine
32. R.P. Zakirova HPLC analysis of flavonoids in wild and cultivated species of *Astragalus babatagi*
33. F.A. Zulpanov Synthesis and butylation of benzopyrimidine-4-thione
34. A.A. Siddikova Carbohydrates of the aerial parts of plants *Capparis spinose*
35. A.F. Hamidov Sterols of *cousinia maracandica*
36. D.E. Dusmatova Chemotypic difference of sesquiterpenoids of the aerial part of *Inula helenium* flora

- of Uzbekistan
37. D.E. Dusmatova Sesquiterpene lactones of flowers *Inula britannica* of flora of Uzbekistan
 38. Sh.Kh. Rakhimova Amino acid composition of bean protein *Psoralea drupacea*
 39. N.K. Yuldasheva Fatty acid composition of *Psoralea drupacea* bean oil of Uzbekistan flora
 40. E.O. Rakhmatov Obtaining a highly effective herbicide
 41. A.Sh. Abdurazakov Physico-chemical analysis of 5-chloro-2-methyl-1h-benzo[d]imidazole-1-ium (phosphonomethyl)glycinate
 42. Alimujiang Abuliz Determination of the amount of flavonoids quercetin-3-o-sophoroside and kaempferol-3-o-sophoroside in the dry extract of wrinkled rose petals by high performance liquid chromatography
 43. E.A. Baynazarov Chemical modification of lappaconitine alkaloid
 44. Sh.Kh. Kubayev Synthesis and optimal technology for the production of biologically active amides in the series of benzimidazoles
 45. Sh.Kh. Kubayev Synthesis of biologically active diamides of benzimidazole series
 46. G. N. Kudratov Synthesis of n-propargyl derivatives of 1,3-unsymmetrical ureas
 47. Sh.R. Makhmudova Components of stamens and petals of *Crocus sativus* introduced in the Jizzakh region of Uzbekistan
 48. S.A. Safarova Reactions of the diterpene alkaloid n-deacetylappaconitine with isocyanates
 49. Sh.A. Sulaymonov New flavonoid glycoside from *Oxytropis rosea*
 50. D. R. Siddikov Phenolic compounds of *Cistanche salsa* roots
 51. R.A. Botirov Biological activity polysaccharides from *Capparis spinosa*
 52. J.F. Umaraliev Flavonoids from *Artemisia persica*
 53. J.F. Umaraliev Phenolic compounds from *Artemisia persica*
 54. M.A. Kuronbayeva Glucogalactan from the leaves of *Ficus carica L.*
 55. M.I. Olimova Interaction of o-phenylenediamine with aldehydes
 56. M.A. Karlybaeva Proteins and amino acid composition of *Xylosalsola richteri* (Moq.) Akhani & Roalson
 57. I.S. Ortikov Synthesis of novel 1,4-isomeric 1,2,3-triazoles
 58. R.Z. Khudoykulova Synthesis of "amino-bridged" benzyl-quinazoline conjugates in the presence of 6h(bromo)-2,4-dichloroquinazoline and benzylamines
 59. Sh.Kh. Kubayev Anthelmintic activity of 2-propidamizole
 60. N.B. Akhmedova Synthesis of 5-amino-3-aryl-4-carbonitrilpyrazole derivatives
 61. A.A. Azamatov Local anesthetic effect of the 1-(2-hydroxyphenyl)-6,7-dimethoxy-1,2,3,3,4-tetrahydroisoquinoline hydrochloride
 62. N.B. Bekmurzayeva Acute toxicity of the collection of biologically active polysaccharides from the root of *Capparis spinose*
 63. Sh.Kh. Ibotov Lipids of *Atriplex tatarica* leaves
 64. S.N. Shomuratova Polar lipids of *Ammodendron conollyi* seeds
 65. D.Sh. Ibragimova Polar lipids of the aerial parts of *Datisca cannabina*
 66. S. D. Gusakova Lipids of *Climacoptera aralensis* seeds and their stress-protective activity
 67. Q. S. Jurayev A new furocoumarin from *Ferula lehmannii*
 68. O.U. Rajabova Preparation of dry extract of the aerial part of *Pulicaria gnaphalodes* and its antioxidant activity
 69. Sh.M. Adizov Obtaining carbohydratealdimines based on pectins
 70. N.M. Yuldasheva Flavonoids of the aerial part of *Inula salicina*
 71. U.Kh. Kurbanov Isolation of the alkaloid songorine from technical waste of the

- plant *Aconitum soongoricum*
72. D.A. Narbutaeva Pharmacological properties of *Melilotus officinalis* components
73. Kh. I. Khasanova Chemical components of *Ferula* species growing in the flora of Uzbekistan and Kirgiziston, their cytotoxic, antibacterial, antioxidant, inhibitor activity
74. M.U. Negmatova Comparative evaluation of the effectiveness of the anti-inflammatory effect of the sum of vitasteroids from plants *Datura stramonium* and diclofenac sodium
75. M.U. Zhuraev Component composition of essential oil of *Salvia sarawshchanica* aerial part
76. F.R. Egamova Study of the toxicity and sedative effect of a dry extract isolated from *Melissa officinalis*
77. A.E. Egamberdiev Eco-phytocenotic description of populations of *Ajuga turkestanica* (Regel) Briq
78. A.E. Egamberdiev Trends in the transformation of *Ajuga turkestanica* populations under different eco-phytocenotic conditions
79. S.M. Allaberganova Novel sulfonamides in the series of bicyclic quinazolines
80. A.M. Nigmatullaev Raw material reserves of yarrow inflorescences (*Achillea filipendulina* LAM.) in the Tashkent region
81. Alimujiang Abulizi Type selection and influencing parameters of drying the leaves of *Rosa rugosa* during the procurement of raw materials
82. M.R. Umarova Cytotoxicity of new 2-hydrazones based on hydrazinylbenzoxazole *in vitro*
83. M.R. Tursunova Determination of the content of carotenoids in the root part of *Curcuma longa* L cultivated in the Republic of Uzbekistan
84. Z.M. Enikeeva Immunomodulatory effects of colchicine
85. Kh.T. Saydullaeva Effect of glycyrrhizic acid complex with 6-benzylaminopurine on shoot development and microtuber formation in *in vitro* potato reproduction
86. N.T. Khuzhaeva Quantitative determination of vitamins from the plant *Fritillaria severzovii* by HPLC
87. B.R. Artikbaeva Flavonoids from *Astragalus bakaliensis*
88. G.M. Ikromova Chemical composition of the essential oil of the above-ground parts of *Haplophyllum acutifolium*
89. R.S. Esanov Application of the pm6 semi-empirical method to model the dimer form of glycyrrhizic acid
90. N.Kh. Yakubova The effect of some gossypol derivatives with masga complexes on blood serum biochemical indicators
91. S.S. Abdurakhmanova Synthesis of acetylene alcohol using ZnBr₂/i-Pr₂NEt/TGF complex catalytic system
92. B.Sh. Ganiev Synthesis and spectral analysis of bis (n-salicylidene-4,4' -diphenylamine)
93. M.R. Zaripova Anti-inflammatory effect of *Gnaphalium uliginosum* L. extract
94. A.A. Kadirov Synthesis of surface-active substance for emulsion solutions and creams
95. O.E. Ziyadullaev Alkynylation reaction of ketones with acetylene in the 3,3'-Ph₂BINOL- 2Li/Ti(OiPr)₄/Et₂Zn catalytic system
96. S.B. Navruzov Changes in the amount of photosynthetic pigments in cotton under hyperthermia conditions
97. D.T. Babaeva The role of biostimulants in plant adaptation to stress
98. D.Sh. Abduazimova Effect of NPK on total polyphenolic content and antiradical activity of medicinal plant extracts

99. S.D. Aronbayev Determination of Se(IV) in plant and vitamin products by the voltammetric method using bismuth-modified screen printed electrodes
100. G.K. Babojonova Properties of anion exchange materials based on polyvinyl chloride
101. Sh.M. Boboyorova Preparation of biologically active salts of oleanolic acid with heterocyclic amino compounds
102. A.A. Bokova DPPH radical scavenging activity of *Gnaphalium uliginosum* ethanolic crude extract
103. M.U. Mahmudova Optimization of DNA extraction from *Rheum* L. species
104. F.A. Melikuziyev Triterpenoids of the endophytic bacteria *Bacillus zhangzhouensis*
105. F.A. Melikuziyev Secondary metabolites of the endophytic bacteria *Bacillus zhangzhouensis*
106. B.S. Muminov Use of the electrolysis method in the synthesis of organic substances
107. M.Sh. Sobirova Influence of exogenous cytokinins on the level of viral infections during introducing potatoes in culture *in vitro*
108. G.B. Nasirova The significance of glycoalkaloid profile as selection markers of potato genotypes
109. N. Allayorov Optimization of iron (II) sulfate dosage for wastewater treatment of hydrometallurgical plants: mechanisms of action and practical application
110. B.K. Rakhmanov Leveraging somatic embryogenesis to develop biotechnological plants as a source for pharmacy
111. M.K. Saliyeva Ethnylation of some heteroatomic aldehydes using the catalytic system SnCl₂•2H₂O/Et₃N/Et₂O
112. S. Siddikova Polysaccharides of obi-navvat peel and their prebiotic activity
113. F.A. Sobirova Create a semi-solid pharmaceutical formulation of hemostatic agents
114. M.O. Abdullaeva Phytochemical analysis and antiradical activity of medicinal plant extracts
115. K.V. Raimova Dynamics of accumulation of polyphenols of the *Pinus sylvestris* plant
116. D.G. Urmonov Gas Chromatography-Mass Spectrometry Analysis of Hexane Fraction from Aerial Parts of *Limonium otolepis*
117. P.K. Turdalieva Study of anti-radical activity of medicinal plants in south Fergana
118. F.N. Khayrullayev X-ray analysis and Molecular docking of the ethyl 2-(4-(dimethylamino)benzoyl)-3-hydroxy-5-methylpyrazolidine-3-carboxylate
119. S.F. Ziyaeva Development of a kinetic model of the process of extraction of biologically active substances from pomegranate peel
120. R. Ziyayev Alkaloids from *Annona senegalensis* Pers
121. E. Kemertelidze Chemical constituents and biological activity of *Yucca gloriosa* L.
122. S.A. Fatykhava Phenol profiling of *Sophora japonica* L. flowers extracts
123. K.V. Kukushkina A new synthetic approach to isoquinolin(on)es through 2'-carboxamidodeoxybenzoins enamino ketone heterocyclizations
124. S.V. Kozyrev Solid-phase phosphorylation of chondroitin sulfates with phosphorus (V) oxide
125. G.F. Krainova Beckman fragmentation of the a-ring of dihydrolupeol oxymes
126. A.A. Khudoyberdiyeva Synthesis and cytotoxicity of enaminoes' derivatives

127. A. Minkayeva Biologically active substances from *Artemisia albida* L.
128. Zh.Zh. Karzhaubekova Chemical composition and antimicrobial activity of the essential oil from *Lavandula angustifolia* Mill. cultivated in the collection of the MBG in the Almaty city
129. A.S. Vasilchenko *Bacillus*-derived cycle lipopeptides modulate microbiome structure and enzymatic activity of soil and increase productivity of *Solanum tuberosum*
130. D.K. Nurkadirov Quantitative determination of flavonoids from the aerial parts of *Linaria vulgaris* MILL.
131. E.H. Kerimli Essential oil constituents of *Ferula persica* fruits
132. L.Yu. Rakhimova Phosphorylation of polysaccharides by phosphorous pentoxide in the presence of Na/K carbonates
133. S.S. Khalikov Plant metabolites as promising carriers of delivering anthelmintic substances
134. Ye.V. Antsybora Synthesis of methylene-bridged bioflavonoids
135. Kh.I. Hasanov Concept and some aspects of medical chemistry
136. A.S. Bagae Study of the solubility of dihydroquercetin in water in the presence of fulvic acids
137. A.L. Stalinskaya A series of novel substituted epoxybenzo [7,8] oxocyno [4,3-*b*] pyridine derivatives: synthesis and in silico study of antiviral activity
138. I.A. Tolmacheva Synthesis of furanotriterpenoids from 1,10-seco-triterpenoids
139. A.N. Tretyakova Creation of new composite materials for regenerative medicine based on collagen and silver nanoparticles
- 140 F.B. Eshboev Penicillic acid as a potential inhibitor of ftsz protein of *Staphylococcus aureus*
141. Kh.A. Rasulova Pharmacological properties of quinoline alkaloids of the genus haplophyllum, growing in the surkhan-darya region, and the prospects of their application in medicine
142. D.M. Saijdjanova On the production of metabolites and derivatives of the lappaconitine alkaloid with pronounced antiarrhythmic properties
143. I. Kopaysinova Selection of optimal conditions for cultivation of *Trichoplusia ni* insect cells
144. Sh.Sh. Khasanov Investigation of optimal conditions for long-term storage of *Helicoverpa zea* insect cell lines
145. Sh.Sh. Khasanov Determination of optimal conditions for cultivating mesenchymal stem cells
146. A. Ibragimov Solubilization of lagochilin using cyclodextrins and the production of water-soluble clathrates in various dosage forms

FOR NOTES