16th INTERNATIONAL CONFERENCE
18/24 SEPTEMBER 2025
ATHENS | GREECE
BIOMATERIALS AND NANOBIOMATERIALS:
Recent Advances Safety-Toxicology and Ecology Issues
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BIONANOTOX

Thursday, September 18th 2025 11.00 - 15.30 *Chair:* Sergei Eremin, Natalia Klyachko

KEYNOTE LECTURE

11.15 - 11.45

TELOMERES AS GENERAL BIOMARKER OF EXPOSOMICS

Professor **Aristidis Tsatsakis,** *Academician, Academia Europaea, FM RAS, FM WAS*
PhD, ERT, DSc, FATS, DHonC, DHonC, DHonC, HonProf, Toxicology & Forensics Department
University of Crete, Medical School

BIOACTIVE & DRUG SYSTEMS

11.45 - 12.00

DETERMINATION OF MACROLID ANTIBIOTICS IN WATER BY FLUORESCENCE POLARIZATION METHOD

L. I. Mukhametova[1], S. A. Eremin[1], A. G. Tereshchenkov[2], N. V. Sumbatyan[1]
[1]Department of Chemistry, Lomonosov Moscow State University, Moscow, 119991 Russia
[2]Belozersky Research Institute of Physico-Chemical Biology, Moscow State University, Moscow, 119234 Russia

12.00 - 12.15

AMIODARONE, ANTIARRHYTHMIC DRUG DELIVERY VIA ALBUMIN NANOPARTICLES

A. Doroschenko[1], A. Lopukhov[1], Y. Oschepkova[2], S. Salihov[2], N. Klyachko[1]
[1]Department of Chemistry, Lomonosov Moscow State University, Moscow, Russia
[2]Institute of Bioorganic chemistry, Academy of Sciences of Uzbekistan, Tashkent, Uzbekistan

12.15 - 12.30

FUNCTIONALIZATION OF MAGNETIC NANOPARTICLES WITH LOW-MOLECULAR-WEIGHT LIGANDS AND STUDY OF THEIR INTERACTION WITH EUKARYOTIC CELL LINES IN THE PRESENCE OF A LOW-FREQUENCY MAGNETIC FIELD

A. Lapanik[1], A. Samsonova[1], A. Lopukhov[1], J. Chudosay[1], A. Prusov[2], N. Klyachko[1]
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12.30 - 12.45

POLYVINYLPYRROLIDONE-BASED MICELLES LOADED WITH CURCUMIN AS PROMISING ANTICANCER DRUG DELIVERY SYSTEM

Daria Kulikova[1,2], Ekaterina Kukovyakina[2], Anastasia Gileva[1,2], Anne Yagolovich[3], Andrey Kuskov[2], Elena Markvicheva[1]
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[2]Department of Chemical-Pharmaceutical and Cosmetic Products Technology, Mendeleev University of Chemical Technology, Moscow, Russia
[3]Faculty of Biology, Lomonosov Moscow State University, Moscow, Russia

12.45 - 13.00

A NOVEL METHODOLOGY FOR THE DEVELOPMENT OF ANTIANEMIC PHARMACEUTICALS USING ORGANOSILICON HYDROGELS AND COMPLEXES WITH BETA-CYCLODEXTRIN DERIVATIVES

P. Orlova[1], S. Sharikov[1], V. Frolov[1], A. Skuredina[1], I. Meshkov[2], A. Kalinina[2], A. Mizafarov[2], I. Le-Deygen[1]
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13.00 - 13.15

BEYOND IC_{50}: MOLECULAR DETERMINANTS OF DOSE–RESPONSE CURVE SHAPE FOR ETOPOSIDE, BUSULFAN, AND MELPHALAN IN LEUKAEMIA AND NORMAL CELLS

B. Gobeljic[1,2], A. Djuric[3*], A. Damjanovic[3], D. Djukic[4], M. Spanakis[5], D. A Spandidos[6], P. D. Stivaktakis[5], A. Tsatsakis[*5], M. Djukic[*1]
[1] Department for Toxicology, Faculty of Pharmacy, University of Belgrade, 11221 Belgrade, Serbia,
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[6] University of Crete, Division of Clinical Virology, Department of Medicine, 71003, Heraklion, Crete
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13.15 - 13.30

AU^{III} ACYCLIC(AMINO)(N-PYRIDINIUM)CARBENOIDS: SYNTHESIS AND CYTOTOXICITY

O. V. Repina, A. G. Tskhovrebov

Research Institute of Chemistry, Peoples' Friendship University of Russia, Moscow, Russian Federation

13.30 - 13.45

A NEW METHOD FOR THE SYNTHESIS OF ACEMIDOPHENE

A.Tsatsakis[1], Y. Mezhuev[2], L. Shteynberg[2]

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[2] D.I. Mendeleyev University of Chemical Technology of Russia, Moscow.

BIOENGINEERING MATERIALS

13.45 – 14.00

PRODUCTION OF NEW CARBON-MAGNETIC PARTICLES AND THEIR IMMUNOANALYTICAL APPLICATION

N. A. Taranova, A.A. Bulanaya, A.V. Zherdev, B.B. Dzantiev

A.N. Bach Institute of Biochemistry, Research Center of Biotechnology of the Russian Academy of Sciences, Leninsky prospect 33, 119071 Moscow, Russia

14.00 - 14.15

BIODEGRADABLE LOW-CRYSTALLINE POLYHYDROXYALKANOATES FOR PRODUCING NANOMEMBRANES SUITABLE FOR DRUG DELIVERY AND CELL CULTURE

A. E. Dudaev[1,2], A. V. Demidenko[1,2], A. V. Murueva[1,2], T. G. Volova[1,2]

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ENVIRONMENTAL ISSUES

14.15 - 14.30

NEW METHODS FOR THE SYNTHESIS OF DRUGS BASED ON ARYLAMIDES OF 3-HYDROXY-2-NAPHTHOIC ACID

A. Tsatsakis[1], Y. Mezhuev[2], L. Shteynberg[2]

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ENSURING SAFE IRRIGATION IN CRETE: MONITORING WATER QUALITY AND ADDRESSING RISKS OF WASTEWATER REUSE

V. Amargianitakis[1], S. Tyraki[1], E. Katseli[1], D. Terzakis[1], F. Troullinou[1], M. Dialynas[1], M. Kavvalakis[1,2,*]

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14.30 - 14.45

NEW TRACERS FOR FLUORESCENCE POLARIZATION IMMUNOASSAY OF HERBICIDE 4-CHLOROPHENOXYACETIC ACID

M. K. Kolokolova[1], L. I. Mukhametova[1,2], S. A. Eremin[1,2]

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Thursday, September 18th 2025 11.00 - 15.30 *Chair:* Sergei Eremin, Natalia Klyachko

14.45 - 15.00	**DETERMINATION OF DIBUTYL PHTHALATE IN NATURAL WATERS AND PLASTIC EXTRACTS BY FLUORESCENCE POLARIZATION METHOD** **S. Xue[1], M. R. Karimova[1], L. I. Mukhametova[1], D. N. Zaslavskaya[2], *M. B.* Zobkov[3], S. A. Eremin[1]** *[1]Department of Chemistry, Lomonosov Moscow State University, 119991 Moscow, Russia* *[2]National Scientific Center for "Toxicological and Biological Safety of Medical Devices" Limited, Moscow, Russia* *[3]Northern Water Problems Institute of Karelian Research Centre of the Russian Academy of Sciences, 185000, Karelia, Petrozavodsk, Pr. Alexandr Nevskii 50, Russia*
15.00 - 15.15	**SOIL BIODEGRADATION OF POLY(3-HYDROXYBUTYRATE) FILMS UNDER DIFFERENT CLIMATIC CONDITIONS** **S. V. Prudnikova[1], S. Thomas[3], T. G. Volova[1,2]** *[1]Siberian Federal University Krasnoyarsk, Russian Federation.* *[2]Institute of Biophysics SB RAS, FRC "Krasnoyarsk Science Center SB RAS" Krasnoyarsk, Russian Federation.* *[3]Mahatma Gandhi University, Kottayam, India*
15.15 - 15.30	**FILM PACKAGING FROM DEGRADABLE BIOPLASTIC SYNTHESIZED ON WASTE FISH OIL (WFO)** **E. G. Kiselev[1,2], A. V. Demidenko[1,2], A. E. Dudayev[1,2], T. G. Volova[1,2]** *[1]Institute of Biophysics SB RAS, FRC "Krasnoyarsk Science Center SB RAS", 660049 Krasnoyarsk, Russian Federation.* *[2]Siberian Federal University, 660049 Krasnoyarsk, Russian Federation*

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HUMAN HEALTH EFFECTS

11.15 - 11.30

LEGIONELLA SURVEILLANCE AND RISK ASSESSMENT IN HIGH-RISK ENVIRONMENTS: A LABORATORY-BASED PREVENTIVE APPROACH

M. Panagiotopoulou[1], E. Galanaki[1], V. Amargianitakis[1], D. Daskalakis[1], A. Kritsotaki[1], M. Dialynas[1], M. Kavvalakis[1,2,*]

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11.30 - 11.45

DEVELOPMENT OF IMMUNOASSAY FOR LINEZOLID MONITORING IN CRITICAL PATIENTS

M.A. Burkin[1], A.S. Tikhomirov[2], Yu.A. Surovoy[3], I.A. Galvidis[3]

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[3] University College of London Hospital, London NW1 2BU, United Kingdom;

11.45 - 12.00

THE SENSITIVITY OF HUMAN SOMATIC CELLS TO THE GENOTOXIC EFFECT OF PESTICIDES IN VIVO AND IN VITRO

Yu.V. Demidova, N.A. Ilyushina, O.V. Egorova, S.D. Ignatyev, N.S. Averianova, A.P. Kotnova, O.V. Gorenskaya, V.N. Rakitskii

Federal Scientific Center of Hygiene named after F.F. Erisman

12.00 - 12.15

ESTABLISHMENT OF DYNAMIC DATA OF TRACE ELEMENTS HOMEOSTASIS BASED ON SPECIATION ANALYSIS AS THE FUNCTION OF PREVENTIVE HEALTH

D.M. Lyapunovsky[1], A.V. Skalny[1,2], A.M. Tsatsakis[3]

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12.15 - 12.30

STUDY OF ELEMENTAL HOMEOSTASIS OF ESSENTIAL ELEMENTS FE AND CU IN CHILDREN AND ADOLESCENTS IN REMISSION AFTER TREATMENT OF MALIGNANT NEOPLASM

T. A. Lobaeva[1,2], D. M. Lyapunovsky[2], E. V. Zhukovskaya[4], A. F. Karelin[4], A. V. Skalny[2,3]

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12.30 - 12.45

THE ELEMENTAL STATUS OF THE POPULATION OF THE KRASNOYARSK KRAI: ANALYSIS OF IONOMIC HAIR PROFILES AND ASSESSMENT OF THE INFLUENCE OF ENVIRONMENTAL FACTORS

A. E. Pobilat, E. V. Rylina, M. A. Paleeva, A. V. Skalny, A. A. Kirichuk

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12.45 - 13.00

HUMAN HAIR ANALYSIS IN RELATION TO SIMILAR ENVIRONMENTAL AND OCCUPATIONAL EXPOSURE IN THE KRASNOYARSK KRAI

A. E. Pobilat, E. V. Rylina, M. A. Paleeva, A. A. Kirichuk, A. V. Skalny

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13.00 - 13.15

THE LEVEL OF TRACE ELEMENTS AND CYTOCHROME CYP2D6 POLYMORPHISM IN SURVIVORS OF HEMOBLASTOSIS COMPLICATED BY THE DEVELOPMENT OF METABOLIC SYNDROME

E.V. Zhukovskaya[1], M.K. Zapevalina[2], V.V. Semenova[3], E.E. Khrameeva[2], D.M. Lyapunovsky[5], T.V. Nasedkina[3], A.V. Skalny[4,5]

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13.15 - 13.30

SELENIUM CONTENT IN BLOOD AND SALIVA OF CHILDREN AND ADOLESCENTS' SURVIVORS OF BONE SARCOMAS

D.M. Lyapunovsky[2]., E.V. Zhukovskaya[1,2], T.A. Lobaeva[2,3], A.F. Karelin[1], A.V. Skalny[2,4]

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PHYSICO-CHEMICAL PROPERTIES OF BIOMATERIALS & BIONANOMATERIALS

13.30 - 13.45

CHOOSING PARAMETERS OF NANOLABELS AND THEIR CONJUGATES WITH ANTIBODIES FOR EFFICIENT DETECTION OF ANTIBIOTICS IN FOOD PRODUCTS

A. V. Zherdev*, E. A. Zvereva, L. V. Barshevskaya, O. D. Hendrickson, B. B. Dzantiev

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SAFETY METHODS AND STANDARDS

13.45 - 14.00

STUDY ON THE TOXICITY OF HEMOSTATIC MATERIALS BASED ON SODIUM ALGINATE

K.L. Kolosov [1], N.E. Benyaev [1], A.A. Surkova [1,2], S.D. Bedtredinova [1], D.N. Zaslavskya [1], A.N. Kuskov [2]

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14.00 - 14.15

APPLICATION OF THE METHOD OF FLUORESCENCE POLARIZATION ANALYSIS FOR LYSOZYME ASSAY IN TABLET DOSAGE FORM

S. M. Filimonova[1], D. O. Zherdev[2], K. S. Balyklova[1], L. I. Mukhametova[2], S. A. Eremin[2], O. N. Yudina[3], V. B. Krylov[3], N. E. Nifantiev[3]

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14.15 - 14.30

DEVELOPMENT OF A FLUORESCENCE POLARIZATION IMMUNOASSAY FOR QUANTITATIVE ANALYSIS OF ACETOCHLOR IN CORN SILK (ZEA MAYS)

M. A. Pashkova[2], S. M. Filimonova[1], L. I. Mukhametova[2], I. V. Gravel[1], S. A. Eremin[2]

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TOXICOLOGICAL ASPECTS

14.30 - 14.45

HOMOGENEOUS ASSAY OF AFLATOXIN B1 BASED ON MODULATED FLUORESCENCE OF FLUORESCEIN LABELED DERIVATIVE OF AFLATOXIN B1 UPON IMMUNE COMPLEXES FORMATION

D. V. Sotnikov, A. S. Agapov, A. V. Zherdev, B. B. Dzantiev

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14.45 - 15.00

TOXICOLOGICAL ASSESSMENT OF HERBICIDES FROM THE CLASS OF SULFONYLUREA EXPOSURE IN LONG-TERM ADMINISTRATIONE

A. U. Bagreev, S V. Kuz'min, V. N. Rakitskii, P. P. Korsunov, D. I. Bagreeva

FBES «F.F. Erisman Federal scientific center of hygiene» of the Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing, Institute of hygiene, toxicology of pesticides and chemical safety, Mytishchi, Russian Federation

15.00 - 15.15

FROM IN VIVO STUDY PITFALLS TO IN SILICO UNCERTAINTY: TOXICOLOGICAL STUDIES OF METAL MIXTURES

M. Djukic[*1], P. D. Stivaktakis[2], A. Tsatsakis[*2-4]

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15.15 - 15.30

THE HAIR ELEMENTAL PROFILING OF RESIDENTS OF UDMURT REPUBLIC AND VOLGA FEDERAL DISTRICT

I. I. Lapin[1,2,*], T. V. Korobeynikova[1,2], A. R. Grabeklis[1], A. M. Tsatsakis[3]

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15.30 - 15.45	**THERAPEUTIC POTENTIAL OF CEIBA SPECIOSA IN COUNTERACTING BEE VENOM-INDUCED CYTOTOXIC AND INFLAMMATORY RESPONSES** **A. Taghizadehghalehjoughi[1], E. Nigde[1], K. Karabulut[1], S. Genc[1], Y. E. Aydin[1], A. Tsatsakis[2,3,4] P. D. Stivaktakis[2]** *[1]Department of Medical Pharmacology, Faculty of Medicine, Şeyh Edebali University, 11000 Bilecik, Türkiye* *[2]Center of Toxicology Science & Applications, Medical School, University of Crete,71003, Heraklion, Greece.* *[3]Universidad Ecotec, Km. 13.5 Samborondón, Samborondón, EC092302, Ecuador.* *[4]Sechenov IM First State Medical University, Moscow, Russia.*
15.45 - 16.00	**TREATMENT OF BEE VENOM-INDUCED TOXICITY WITH C. POLYGONOIDES: A STUDY FOCUSING ON INFLAMMATION AND APOPTOSIS** **S. Genc[1], K. Karabulut[1], E. Nigde[1], A. Taghizadehghalehjoughi[1], O. Utme[1], A. Tsatsakis[2,3,4], P. D. Stivaktakis[2]** *[1]Department of Medical Pharmacology, Faculty of Medicine, Şeyh Edebali University, 11000 Bilecik, Türkiye* *[2]Center of Toxicology Science & Applications, Medical School, University of Crete, 71003, Heraklion, Greece.* *[3]Universidad Ecotec, Km. 13.5 Samborondón, Samborondón, EC092302, Ecuador.* *[4]Sechenov IM First State Medical University, Moscow, Russia.*
16.00 - 16.15	**PROTECTIVE AND ANTI-INFLAMMATORY EFFECTS OF CARDAMOM (*ELETTARIA CARDAMOMUM*) AGAINST BEE VENOM TOXICITY IN AN IN VITRO WOUND MODEL** **S. Genc[1], O. Utme[1], A. Taghizadehghalehjoughi[1], E. Nigde[1], K. Karabulut[1], Y. E. Aydin[1], A. Tsatsakis[2,3,4], P. D. Stivaktakis[2]** *[1]Department of Medical Pharmacology, Faculty of Medicine, Şeyh Edebali University, 11000 Bilecik, Türkiye* *[2]Center of Toxicology Science & Applications, Medical School, University of Crete,71003, Heraklion, Greece.* *[3]Universidad Ecotec, Km. 13.5 Samborondón, Samborondón, EC092302, Ecuador.* *[4]Sechenov IM First State Medical University, Moscow, Russia.*
16.15 - 16.20	**CLOSING**