

12th INTERNATIONAL CONFERENCE

BIOMATERIALS AND NANOBIOMATERIALS:

Recent Advances
Safety-Toxicology
and Ecology Issues

Including Russian-Hellenic
Workshop and School
of Young Scientists



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CONGRESSES

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AMPHION



D. MENDELEEV UNIVERSITY
OF CHEMICAL TECHNOLOGY
OF RUSSIA



27th SEPTEMBER
04th OCTOBER 2021

AGAPI BEACH

HERAKLION

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2021 BIONANOTOX

SCIENTIFIC PROGRAM

Friday, October 1, 2021

08.00-10.00

BREAKFAST

Chairman: Prof. Shishatsksya E.I.

10.00-10.30

O18

DESIGN AND ANTIMICROBIAL PROFILING OF SILVER-CHITOSAN NANOCOMPOSITES FOR BIOMEDICAL APPLICATIONS

K. Kasemets, I. Kurvet, H. Vija, M. Sihtmäe, A. Kahru

National Institute of Chemical Physics and Biophysics, Laboratory of Environmental Toxicology, Tallinn, Estonia

10.30-11.00

O19

EVALUATION OF BIOLOGICAL EFFECTS OF NANOMATERIALS: COST-EFFICIENT TOOL BOX AND CORONA CHALLENGES

A. Kahru^{1,2}, K. Kasemets¹, I. Blinova¹, M. Heinlaan¹, O. Bondarenko¹, A. Khosrovyan¹

¹National Institute of Chemical Physics and Biophysics, Laboratory of Environmental Toxicology, Tallinn, Estonia

²Estonian Academy of Sciences, Tallinn, Estonia

11.00-11.30

O20

THREE MAINSTREAM BRANCHES OF MAGNETIC FIELD IMPACT ON BIOMATERIALS AND BIOOBJECTS. ITS EFFICIENCY AND SAFETY FOR BIOMEDICINE

Yu.I. Golovin^{1,2}, D.Yu. Golovin¹, N.L. Klyachko^{1,2}

¹Research Institute "Nanotechnology and Nanomaterials", G.R. Derzhavin Tambov State University, 392000 Tambov, Russia

²Department of Chemical Enzymology, School of Chemistry, Lomonosov Moscow State University, 119991 Moscow, Russia

11.30-12.00

O21

SURPRISES FROM DIAGNOSTIC KIT ANTIBODIES: REINVESTIGATION THEIR CARBOHYDRATE SPECIFICITY USING SYNTHETIC OLIGOSACCHARIDES

N.E. Nifantiev, V.B. Krylov

Laboratory of Glycoconjugate Chemistry, N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Leninsky Prospekt 47, 119991 Moscow, Russia,

12.00-12.30

COFFEE BREAK- POSTER SESSION

12.30-13.00

O22

TRAIL DR5-B-CONJUGATED POLYMERIC NANOPARTICLES FOR TARGETED DELIVERY IN TUMORS

A.N. Kuskov¹, A.V. Yagolovich², A.A. Artykov², P.P. Kulikov³, M.E. Gasparian², L.A. Kurbanova², E.A. Markvicheva²

¹Mendeleev University of Chemical Technology of Russia, 125047 Moscow, Russia

²Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences, 117997 Moscow, Russia

³Center of Strategic Planning and Management of Medical and Biological Health Risks, 119121 Moscow, Russia

13.00-13.30

O23

SILVER-CONTAINING HYDROGEL BASED ON POLYVINYL ALCOHOL MODIFIED WITH NANOSCALE CYCLOTRIPHOSPHAZENE

P.A. Yudaev, V.V. Maslennikova, A.A. Konkova, I.A. Butorova, E.M. Chistyakov

D. Mendeleev University of Chemical Technology of Russia, Moscow, Russian Federation

13.30-14.30

LUNCH

14.30-16.30

BREAK