

**13<sup>th</sup> INTERNATIONAL CONFERENCE**  
**BIOMATERIALS AND NANOBIMATERIALS:**  
 Recent Advances Safety-Toxicology and Ecology Issues

MAY 12 2022

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GREEK CONFERENCE SYMPOSIUM

VIRTUAL PRE CONFERENCE

BIONANOTOX 2022

Moderators: M. Shtilman, S. Eremin, N. Klyachko, A. Vardavas

- 10:00-10:10** DEVELOPMENT OF MICELLAR APPROACH FOR INHIBITION ANALYSIS OF GALACTONOLACTONE OXIDASE FROM TRYPANOSOMA CRUZI  
A.A. Chudin, E.V. Kudryashova
- 10:10-10:20** THE EFFECT OF ANTIFIBROTIC AND ANTIBACTERIAL DRUGS ON THE PHYSICOCHEMICAL PROPERTIES OF LIPOSOMES: A SPECTRAL STUDY  
Irina M. Le-Deygen, Anastasia S. Safronova, Polina V. Mamaeva, Anna A. Skuredina, E. V. Kudryashova
- 10:20-10:30** DEVELOPMENT OF MOLECULAR CONTAINERS BASED ON POLYETHYLENIMINES, CYCLODEXTRINS, SPERMINE AND MANNOSE FOR TARGETED DELIVERY TO ALVEOLAR MACROPHAGES OF FLUOROQUINOLONE-BASED FORMULATIONS COMBINED WITH ESSENTIAL OILS  
I.D. Zlotnikov, E.V. Kudryashova, N.G. Belogurova
- 10:30-10:40** PREPARATION METHODS AND BIOCATALYTIC PROPERTIES OF COVALENT CONJUGATES OF RHODOSPIRILLUM RUBRUM L-ASPARAGINASE  
N.V. Dobryakova, D.D. Zhdanov, E.V. Kudryashova
- 10:40-10:50** FLUORESCENCE POLARIZATION IMMUNOASSAY FOR MICROCYSTIN-LR  
 O.D. Hendrickson, A.V. Zherdev, L.I. Mukhametova, A. Hibara, M. Tokeshi, S.A. Eremin
- 10:50-11:00** DEVELOPMENT OF FLUORESCENCE POLARIZATION IMMUNOASSAY TO DETECT DIBUTYLPHTHALATE (DBP) AND ITS ACTIVE METABOLITE MONOBUTYLPHTHALATE (MBP) IN ENVIRONMENTAL SAMPLES  
L.I. Mukhametova, M.R. Karimova, O.G. Zharikova, S.A. Eremin
- 11:00-11:10** MAGNETIC NANOPARTICLES IN COMBINATION WITH A NON-HEATING LOW-FREQUENCY ALTERNATING MAGNETIC FIELD CAN INCREASE THE LYSIS OF E. COLI CELLS UNDER THE ACTION OF BACTERIOPHAGE LYS394 ENDOLYSIN  
Usvaliev A.D., Belogurova N.G., Golovin D.Yu., Finko A.V., Zaitseva E.A., Miroshnikov K.A., Golovin Yu.I., Klyachko N.L.
- 11:10-11:20** TUNABLE SYNTHETIC POLYMERIC SCAVENGERS FOR TOXIC XENOBIOTICS  
M.V. Maslennikova, A.V. Lopukhov, N.L. Klyachko
- 11:20-11:30** NANOPARTICLES BASED ON POLYFERYLIC AND POLYGENTISIC ACIDS AS NEW CARRIERS OF ANTICANCER DRUGS  
 I.V. Smirnov, A.V. Lisov, A.N. Zvonarev, N.E. Suzina, A.S. Kazakov, Elena Markvicheva, M.Y. Zemskova
- 11:30-11:40** MATRICES FROM CHITOSAN/OLIGOLACTIDE COPOLYMERS WITH OSTEOINDUCTIVE PROPERTIES FOR REGENERATIVE MEDICINE  
T.V. Tolstova, A.R. Mamedova, M.G. Drozdova, T.S. Demina, T.A. Akopova, E. Markvicheva
- 11:40-11:50** FIBROIN CRYOSTRUCTURES CROSS-LINKED WITH GENIPIN FOR TISSUE ENGINEERING: PREPARATION AND IN VITRO EVALUATION  
 M. G. Drozdova, V. N. Biriukova, N. A. Sazhnev, N. R. Kildeeva, E. Markvicheva
- 11:50-12:00** ENZYMATIC COPOLYMERIZATION OF ANILINE AND 3-AMINOBENZOIC ACID IN A DEEP EUTECTIC SOLVENT  
 O.V. Morozova, I.S. Vasil'eva, G.P. Shumakovich, E.A. Zaitseva, A.I. Yaropolov
- 12.00-12.10** DEVELOPMENT OF NANOCONTAINERS FOR THE DELIVERY OF 2,4-DINITROPHENOL DERIVATIVES TO THE LIVER IN THE TREATMENT OF NON-ALCOHOLIC FATTY LIVER DISEASE AND TYPE 2 DIABETES  
 A.B. Trusova<sup>1</sup>, P.V. Ostroverhov<sup>2</sup>, M.A. Abakumov<sup>3,4</sup>, V.P. Chekhonin<sup>4</sup>, K.Yu. Vlasova<sup>1,4</sup>, N.L. Klyachko
- 12.10-12.20** STABILITY STUDY OF COPPER ANTITUMOR COORDINATION COMPOUND LOADED INTO LIPOSOMES  
 T.M. Yakimova<sup>1</sup>, K.Y. Vlasova<sup>1</sup>, A.A. Bublely<sup>1</sup>, O.O. Krasnovskaya<sup>1</sup>, N.L. Klyachko<sup>1</sup>
- 12.20-12.30** TUNABLE SYNTHETIC POLYMERIC SCAVENGERS FOR TOXIC XENOBIOTICS  
 M.V. Maslennikova, A.V. Lopukhov, N.L. Klyachko
- 12.30-12.40** DEVELOPMENT AND EVALUATION OF ASGPR-TARGETED ATORVASTATIN DERIVATIVES  
 Lopukhov A.V., Maklakova S.Yu, Binevski P.V., Beloglazkina E.K., Majouga A.G., Klyachko N.L.