

Scientific Program

October 7, Monday

8³⁰-10⁰⁰ **Registration**

10⁰⁰-10²⁰ **Conference opening**

Biomolecules on nanoparticles and nanostructured surfaces

10²⁰-10⁵⁰ **Mély Y., Reisch A., Anton H., Richert L., Didier P., Arntz Y., Roger E., Anton N., Vandamme T.F., Klymchenko A.S. DESIGN, CHARACTERIZATION AND BIOLOGICAL APPLICATIONS OF BRIGHT ORGANIC NANOPARTICLES**

10⁵⁰-11²⁰ **Kamnev A.A., Tugarova A.V. NANOPARTICLES OF MICROBIAL ORIGIN: SOME BIOPHYSICAL, BIOCHEMICAL AND APPLIED ASPECTS**

11²⁰-11⁵⁰ **Vékey K., Tóth E., Ozohanics O., Turiák L., Jekő A., Drahos L. GLYCOSYLATION PATTERN ANALYSIS OF SERUM PROTEINS BY MEANS OF NANO-UHPLC-MS(MS)**

11⁵⁰-12¹⁰ **Coffee break**

12¹⁰-12³⁰ **Tajmir-Riahi H. A., Bekale L., Chanphai P., Sanyakamdhorn S., Agudelo D. ENCAPSULATION OF PROTEIN BY NATURAL AND SYNTHETIC NANOPARTICLES**

12³⁰-12⁵⁰ **Chagovets V.V. , Holcapek M., Boryak O.A., Kosevich M.V., Karachevtsev V.A. SILVER NANOPARTICLES SYNTHESIZED IN ETHYLENE GLYCOL MEDIUM AS ASSISTING MATRIX FOR LASER DESORPTION/ IONIZATION MASS SPECTROMETRY OF PHOSPHATIDYLCHOLINES**

12⁵⁰-13¹⁰ **Bilyy O.I., Vasylyv O.M., Ferensovych Ya.P., Hnatush S.O., Grechukh T. Z. FORMATION OF NANOPARTICLES OF METAL SULFIDES BY BACTERIAL CELLS DESULFUROMONAS ACETOXIDANS IN MICROBIAL FUEL CELLS**

13¹⁰-13³⁰ **Orel V.E., Shevchenko A.D., Rykhalskiy A.Y., Schepotin I.B. TEMPERATURE EFFECT ON MAGNETIC PROPERTIES OF COMPLEX FROM NANOPARTICLES IRON OXIDE AND DOXORUBICIN**

13³⁰-15⁰⁰ **Lunch**

Nanobiohybrids based on nanocarbon systems

15⁰⁰-15³⁰ **Karachevtsev V.A. PHOTOPHYSICS OF SEMICONDUCTING CARBON NANOTUBES INTERFACED WITH BIOORGANIC COMPOUNDS**

15³⁰-16⁰⁰ **Demchenko A.P., Dekaliuk M.O. NOVEL FLUORESCENT CARBON NANOMATERIALS: BASIC RESEARCH AND BIOTECHNOLOGICAL APPLICATIONS**

16⁰⁰-16²⁰ **Kurnosov N.V., Leontiev V.S., Linnik A.C., Karachevtsev V.A. INCREASING OF DNA-WRAPPED SEMICONDUCTING SWNT PHOTOLUMINESCENCE INTENSITY UPON ADDITION OF REDUCING**

- AGENT
- 16²⁰-16⁴⁰** **Pokrovskiy V.A.** FRAGMENTATION AND AGGREGATION OF FULLERENE C60 UNDER EFFECT OF UV LASER IRRADIATION
- 16⁴⁰-17⁰⁰** Shuba M.V., **Paddubskaya A.G.**, Kuzhir P. P., Maksimenko S. A., Dovbeshko G.I., Fesenko O.M., Rynder A.D., Sakanas A., Ivanov M. NEAR FIELD ENHANCEMENT IN CARBON NANOSTRUCTURES FROM RADIOFREQUENCY TO INFRARED RANGES
- 17⁰⁰-17²⁰** **Zholudov Yu.T.**, Bilash O.M., Kukoba A.V., Rozhitskii M.M. ELECTRODES MODIFIED WITH CARBON NANOTUBES FOR ELECTROCHEMILUMINESCENT BIOASSAY
- 17²⁰-17⁴⁰** Glamazda A.Yu., **Plokhotnichenko A. M.**, Leontiev V.S., Levitsky I.A., Karachevtsev V.A. PHOTOLUMINESCENCE AND ENERGY TRANSFER IN POLY(rC)-WRAPPED CARBON NANOTUBE AGGREGATES INDUCED BY CATIONIC PORPHYRINS

18⁰⁰ **Welcome party**

October 8, Tuesday

- Physical aspects of biomolecular nanosystems**
- 9³⁰-10⁰⁰** **Yesylevskyy S.O.**, Kharkyanen V.M., Demchenko A.P. THE INFLUENCE OF CURVATURE AND ASYMMETRY ON CHOLESTEROL DISTRIBUTION IN LIPID BILAYERS
- 10⁰⁰-10³⁰** **Dovbeshko G.**, Fesenko O. SURFACE ENHANCEMENT RAMAN SCATTERING OF BIOMOLECULES AND CELLS
- 10³⁰-10⁵⁰** Zhitnikova M.Yu., Boryskina O.P., **Shestopalova A.V.** SOME PHYSICAL PRINCIPLES OF NANOSYSTEMS' FORMATION ON THE EXAMPLE OF PROTEIN-DNA RECOGNITION
- 10⁵⁰-11¹⁰** **Coffee break**
- 11¹⁰-11⁴⁰** **Freiberg A.** OPTICAL SPECTROSCOPY STUDIES OF PHOTOSYNTHETIC COMPLEXES AND PROCESSES FROM NANOSCALE TO MICROSACLE
- 11⁴⁰-12¹⁰** **Holčapek M.**, Jirásko R., Chagovets V. ULTRAHIGH-RESOLUTION MASS SPECTROMETRY IMAGING OF BIOLOGICAL TISSUES
- 12¹⁰-12⁴⁰** **Yashchuk V.M.**, Kudrya V.Yu. , Dubey I.Ya., Kudrya Yu.M. THE PECULIARITIES OF THE PHOSPHORESCENCE OF THE RIBONUCLEIC ACIDS AND SYNTHETIC OLIGONUCLEOTIDES
- 12⁴⁰-13⁰⁰** **Petrenko V.I.**, Avdeev M.V., Bulavin L.A., Almasy L., Garamus V.M., Timko M., Aksenov V.L., Kopcansky P. STRUCTURE OF AMYLOID PROTOPHILAMENTS AS REVEALED BY SMALL-ANGLE SCATTERING
- 13⁰⁰-13²⁰** **Kudrya V.Yu.** THE PECULIARITIES OF THE OLIGONUCLEOTIDES-PROTEINS INTERMOLECULAR COMPLEXES PHOSPHORESCENCE
- 13²⁰-15⁰⁰** **Lunch**
- 15⁰⁰-15³⁰** **Dubey I.Ya.** G-QUADRUPLEX ASSEMBLIES: STRUCTURES, BIOLOGICAL FUNCTIONS AND LIGAND BINDING
- 15³⁰-16⁰⁰** **Kasyanenko N.A.** DNA NANOSTRUCTURES. CREATION AND PROPERTIES

- 16⁰⁰-16²⁰** **Coffee break**
- 16²⁰-16⁵⁰** Boyko V.V., **Gorelik V.S.**, Dovbeshko G.I. DNA PHOTOLUMINESCENCE SPECTRA, RECORDED UNDER ULTRAVIOLET FIBER LASER EXCITATION
- 16⁵⁰-17¹⁰** **Sukhoviya M.I.**, Isak T.I., Shafranyosh M.I., Tovt V.Ch., Zavadjak M.F., Shafranyosh I.I. INELASTIC INTERACTION OF SLOW ELECTRONS WITH BIOMOLECULES
- 17¹⁰-17⁵⁰** **Poster Session (P1-P26)**
- 18⁰⁰** **Banquet**

October 9, Wednesday

- Physical aspects of biomolecular nanosystems**
- 9³⁰-10⁰⁰** **Lisetski L.N.**, Vashchenko O.V., Kasian N.A., Krasnikova A.O. MODEL LIPID MEMBRANES: A NEW VISION AND POSSIBILITIES OF APPLICATIONS
- 10⁰⁰-10³⁰** **Kosevich M.V.** APPLICATION OF MASS SPECTROMETRY IN NANOSCIENCES
- 10³⁰-10⁵⁰** **Ivanov A.Yu.**, Stepanian S.G., Karachevtsev V.A. LOW TEMPERATURE MATRICES AS A MEDIUM FOR THE INVESTIGATIONS OF NANOSCALE OBJECTS. INFRARED SPECTROSCOPY OF BIOMOLECULES ISOLATED IN THE INERT MATRICES
- 10⁵⁰-11¹⁰** **Coffee break**
- Applied aspects of nanobiophysics**
- 11¹⁰-11⁴⁰** **Faulques E.**, Garreau A., Massuyeau F., Bertoncini P., Wéry J., Ewels C., Zhao Y., Humbert B., El Mel A.A., Mevellec J.Y., Yaya A., Cordier S., Molard Y., Bulou A., Duvail J.L. HYBRID NANOWIRES AND NANOFIBRILS
- 11⁴⁰-12¹⁰** **Kamarchuk G.V.**, Pospelov A.P., Kamarchuk L.V., Kushch I.G. POINT-CONTACT SENSORS AND THEIR MEDICAL APPLICATIONS FOR BREATH ANALYSIS
- 12¹⁰-12³⁰** **Dzmitruk V.**, Shcharbin D., Gómez R., de la Mata F. J., Bryszewska M. BINDING CAPACITY ANALYSIS OF NOVEL Si-C CARBOSILANE DENDRIMERS BY FLUORESCENT PROBE
- 12³⁰-12⁵⁰** **Volkova N. N.**, Dobrydnev A. V. GOLD NANOPARTICLES REDUCED BY CHITOSAN-DEXTRAN SULPHATE POLYMER AS CARRIERS FOR INSULIN DELIVERY
- 12⁵⁰-13¹⁰** **Pavlovich E.V.**, Volkova N.A. EFFECT OF GOLD NANOPARTICLES ON FUNCTIONAL CHARACTERISTICS OF SPEV CELLS
- 13¹⁰-15⁰⁰** **Lunch**
- 15⁰⁰-15³⁰** **Rozhitskii M.M.**, Sushko O.A. NANOPHOTONIC SENSORS FOR BIOMEDICAL AND ECOLOGICAL APPLICATION
- 15³⁰-16⁰⁰** **Zorin V.P.**, Reshetov V.A., Zorina T.E., Yankovsky I.V., Belevtsev M.V., Bolotina L.N. KINETIC DETERMINANTS OF LIPOSOMAL PHOTOSENSITIZERS

- 16⁰⁰-16²⁰** **Ermakov V.N.**, Podolska V.I., Yakubenko L.N., Grishchenko N.I., Voitenko E.Yu. CYANIDE DESTRUCTIVE ACTIVITY OF BIOCOLLOIDS PRETREATED BY LOW-INTENSITY PULSED ELECTRIC FIELD
- 16²⁰-16⁴⁰** **Kamnev A.A.**, Tugarova A.V. NANOSIZED INTRACELLULAR GRANULES OF MICROBIAL BIOPOLYESTERS: ACCUMULATION AND ANALYSIS BY DIFFUSE REFLECTANCE INFRARED SPECTROSCOPY
- 16⁴⁰-17⁰⁰** **Coffee break**
- 17⁰⁰-17²⁰** Vochita G., Poiata A., **Creanga D.** MANUFACTURED NANOPARTICLE GENOTOXICITY IN PLANTS AND BACTERIAL GERMS
- 17²⁰-17⁴⁰** **Vus K.O.**, Kutsenko O.K. , Dovgopolova O.I., Gorbenko G.P., Sood R., Kinnunen P. THIOFLAVIN T FLUORESCENCE MICROSCOPY ASSAY IS A PROSPECTIVE TOOL FOR IMAGING OF AMYLOID NANOMATERIALS
- 17⁴⁰-18⁰⁰** **Djelali V.V.**, Chernishenko D.N., Kuchma I.U., Korotkova N.A. CREATION AND STUDY OF ELECTROCHEMICAL BIOSENSORS DESIGNED TO IDENTIFY PATHOGENIC MICROORGANISMS
- 18⁰⁰-19⁰⁰** **Poster Session (P27-P57)**

October 10, Thursday

Theoretical calculations and computer modeling of nanobiosystems

- 9³⁰-10⁰⁰** **Volkov S.N.** DNA MECHANICS AT THE NANOSCALE
- 10⁰⁰-10³⁰** **Belobrov P.I.**, Denisov I.A., Zimin A.A. BLOT-DROPLET INTERACTION OF BIOLOGICAL PARTICLES
- 10³⁰-11⁰⁰** **Petrov E.G.**, Teslenko V.I. QUASI-ISOENERGETIC TRANSITION PROCESSES IN BIOLOGICAL MACROMOLECULES
- 11⁰⁰-11²⁰** **Coffee break**
- 11²⁰-11⁵⁰** **Chervanyov A.I.** POLYMER-MEDIATED INTERACTIONS BETWEEN NANO-COLLOIDS
- 11⁵⁰-12¹⁰** **Pokutnyi S.I.**, Naumenko O.V. ELECTRON AND EXCITON STATES IN QUASI-ZERO-DIMENSIONAL NANOSYSTEMS
- 12¹⁰-12³⁰** **Rubin Yu.V.**, Belous L.F. PHYSICAL PROPERTIES OF SOME NUCLEIC ACID FRAGMENTS
- 12³⁰-12⁵⁰** **Burova T.G.**, Nurlygaianova M.N., Ten G.N. QUANTUM-MECHANICAL ANALYSIS OF RESONANT HYPER RAMAN SPECTRA OF CYTOSINE
- 12⁵⁰-13¹⁰** **Shatalov V.M.**, Metlov K.L. TEMPERATURE SPIKES AROUND CONDUCTING NANO-INCLUSIONS IN MICROWAVE IRRADIATED BIOLIQUIDS
- 13¹⁰-15⁰⁰** **Lunch**
- 15⁰⁰-15³⁰** **Stepanian S.G.** QUANTUM-MECHANICAL INVESTIGATIONS OF NON-COVALENT INTERACTION OF CARBON NANOTUBES AND GRAPHENE
- 15³⁰-15⁵⁰** **Perepelytsya S.M.**, Volkov S.N. MANIFESTATIONS OF DYNAMIC ORDERING OF COUNTERIONS AROUND DNA
- 15⁵⁰-16¹⁰** **Plodnik D.P.**, Voiteshenko I.S., Hovorun D.M. QUANTUM-CHEMICAL

ANALYSIS OF ENERGETIC AND GEOMETRIC CHARACTERISTICS
OF THE WHOLE FAMILY OF MODIFIED NUCLEOTIDE BASES

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16¹⁰-16³⁰

Zobnina V.G., Boryak O.A., Chagovets V.V., Kosevich M.V., Gomory A.
NANOCLUSTERS OF BIOPOLYMERS COMPONENTS WITH ORGANIC
POLYMERS: MASS SPECTROMETRY STUDY AND MODELING

16³⁰-17⁰⁰

Round Table

17⁰⁰

Conference Closing

Posters

P-1 **Adeljanov A.V.**, Shatalova T.A., Gorobchenko O.A., Nikolov O.T., Gatash S.V.
HEMOLYSIS OF ERYTHROCYTES IN THE PRESENCE OF ULTRA-DISPERSED
DIAMONDS

P-2 Evstigneev M.P., **Buchelnikov A.S.**, Voronin D.P., Hernandez Santiago A.A.,
Prylutskyy Yu.I. INTERCEPTOR PROPERTIES OF CARBON NANOPARTICLES
TOWARDS AROMATIC DRUG MOLECULES

P-3 **Gladchenko G.O.**, Karachevtsev M.V., Leontiev V.S., Karachevtsev V.A.
PECULIARITIES OF ADSORPTION OF POLYNUCLEOTIDES WITH DIFFERENT CHAIN
RIGIDITIES ON SWCNT

P-4 **Karachevtsev M.V.**, Lytvyn O.S., Karachevtsev V.A. TWO APPROACHES TO ENZYME
IMMOBILIZATION ON CARBON NANOTUBE SURFACE: AFM STUDY AND
COMPUTER MODELING

P-5 **Kosevich M.V.**, Chagovets V.V., Zobnina V.G., Stepanian S.G., Shelkovsky V.S.,
Karachevtsev V.A., Adamowicz L. PECULIARITIES OF INTERACTION OF CHARGED
ORGANIC SPECIES WITH CARBON NANOPARTICLES

P-6 Savenko V.S., Bulavin L.A., **Manilo M.V.**, Lebovka N.I. AQUEOUS HYBRID
SUSPENSIONS OF MULTI-WALLED CARBON NANOTUBES AND LAPONITE
NANODISKS

P-7 **Snizhko D.V.**, Ritter U., Rozhitskii M.M. CARBON NANOTUBES MATERIAL FOR
ELECTROCHEMICAL AND ELECTROCHEMILUMINESCENT BIOANALYTICS

P-8 **Zarudnev E.S.**, Plokhotnichenko A.M., Leontiev V.S., Karachevtsev V.A.
SPECTROSCOPY AND MOLECULAR DYNAMIC STUDY OF CARBON
NANOTUBE:POLY(RC) AGGREGATION INDUCED BY CATIONIC PORPHYRIN

P-9 **Novopashina D.S.**, Buyanova M.Yu., Apartsin E.K., Permyakova E.S., Ryabchikova E.I.,
Filatov A.V., Zenkova M.A., Venyaminova A.G. HYBRIDS OF THERAPEUTIC NUCLEIC
ACIDS WITH MODIFIED SWCNTs

P-10 Ivanov L.V., Nardid O.A., **Kartel M.T.**, Cherkashina Ya.O. USING THE METHOD OF
SPIN PROBES TO ESTIMATE CYTOTOXICITY AND BIOCOMPATIBILITY OF CARBON
NANOTUBES CONTACTED WITH NANOBIOHYBRID TISSUES

P-11 **Boiko V.V.**, Naumjak L.R., Dovbeshko G.I., Moiseyenko V.N., Gorelik V.S. SURFACE-ENHANCED RAMAN SCATTERING OF DNA MOLECULES AT PHOTONIC CRYSTALS SURFACE

P-12 **Kanyuk M.I.**, Demchenko A.P. NEW FLUORESCENT NANOMATERIALS COMPOSED OF SILVER ATOMS AND ORGANIC DYES

P-13 **Denisov I.A.**, Zimin A.A., Belobrov P.I. SUBSURFACE COLLECTIVE ELECTRON STATES IN NANODIAMOND

P-14 **Fediv V.I.**, Davydenko I.S., Rudko G.Yu., Savchuk A.I., Fediv O.I., Olar O.I. ZnO NANOPARTICLES AS FLUORESCENT LABELS FOR ERYTHROCYTE MEMBRANES PERMEABILITY INVESTIGATION

P-15 **Golovko S.A.**, Gudimenko V.A., Kamarchuk L.V., Kushch I.G., Pospelov A.P., Kravchenko A.V., Kamarchuk G.V. POINT-CONTACT SENSORS BASED ON THE ORGANIC CONDUCTOR

P-16 **Korovyanko O.**, Sytnyk M., Yarema M. SILICA ENCAPSULATION OF HYDROPHOBICALLY AU AND PBS NANOCRYSTALS BY REVERSE MICROEMULSION METHOD

P-17 **Kryachko E.S.** EFFECT OF FULLERENE CONFINEMENT ON METHANE DIMER FORMATION

P-18 **Lytvyn O.S.**, Lytvyn P.M., Alekseeva T.A., Prokopenko I.V. ASSESSMENT OF MATERIALS BIOCOMPATIBILITY BY ATOMIC FORCE SPECTROSCOPY

P-19 **Poluyan N.A.**, Zabolotny M.A., Barabash Y.M., Dmytrenko O.P., Kulysh M.P., Momot A.I., Dovbeshko G.I., Gnatyuk O.P., Kirkilevska L.M. MODIFICATION OF DRUG'S CONIUM STRUCTURE AND PROPERTIES USING FULLERENE C₆₀

P-20 Yefimova S.L., Tkacheva T.N., Klochkov V.K., Sorokin A.V., Malyukin Yu.V., **Ropakova I.Yu.** SPECTROSCOPIC STUDY OF THE INTERACTION BETWEEN INORGANIC NANOPARTICLES AND THE ORGANIC CARBOCYANINE DYES IN AQUEOUS SOLUTIONS

P-21 **Semeney O.M.**, Rozhytskii M.M. SENSORS WITH NANODIAMOND-LIKE FILMS IN ANALYTICAL APPLICATIONS

P-22 **Shelkovsky V.S.**, Kosevich M.V., Boryak O.A., Pokrovskiy V.A. MASS SPECTROMETRIC STUDY OF DYES IN SELF-ASSEMBLED LAYERS OF SURFACTANTS

P-23 Boryak O.A., **Shelkovsky V.S.**, Zobnina V.G., Chagovets V.V., Orlov V.V., Stepanian S.G., Kosevich M.V. MASS SPECTROMETRIC AND COMPUTATIONAL STUDY OF SILVER-ORGANIC NANOCLUSTERS

P-24 **Sushko O.A.**, Bilash O.M. USE OF SEMICONDUCTOR NANOMATERIALS FOR POLYCYCLIC AROMATIC HYDROCARBONS DETECTION IN WATER OBJECTS

P-25 **Volkova N.N.**, Dobrydnev A.V. DESIGNING OF NITRILOTRIACETIC ACID-MODIFIED IRON OXIDE NANOPARTICLES FOR MAGNETIC IMMOBILIZED- METAL AFFINITY PURIFICATION OF HISTIDINE-TAGGED PROTEINS

P-26 **Galagan N.P.**, Klymenko N.Yu., Novikova E.A. AGGREGATION OF NANOCOMPOSITES IN CELL-CONTAINING SYSTEMS

P-27 **Bliznjuk O.N.**, Ogurtsov A.N. EFFECT OF WATER MOLECULES ON PROTEIN-LIGAND ASSOCIATION

P-28 Krasnikova A.O., Deligeorgiev T., Vasilev A., Gorbenko G.P., Vashchenko O.V., **Budyanskaya L.V.**, Kasian N.A., Lisetski L.N. INTERACTION OF EUROPIUM COORDINATION COMPLEXES WITH MODEL MULTIBILAYER PHOSPHOLIPID MEMBRANES

P-29 **Drapikovskiy M.A.**, Zabolotny M.A., Barabash Y.M. INVESTIGATION OF THE KINETICS OF PHOTOINDUCED ELECTRONIC TRANSITIONS IN NANOSTRUCTURES OF BACTERIAL REACTION CENTERS

P-30 **Pashynska V.A.**, Kosevich M.V., Gomory A., Vekey K. MASS SPECTROMETRY BASED APPROACH IN THE STUDY OF NANOBIOCOMPLEXES OF CHEMOTHERAPEUTICAL DRUGS WITH THE TARGETING BIOLOGICAL MOLECULES

P-31 **Ryazanova O.A.**, Zozulya V.N., Voloshin I.M., Ilchenko M.M., Dubey I.Ya., Glamazda A.Yu., Karachevtsev V.A. SELF-ASSEMBLIES OF TRICATIONIC PORPHYRIN ON INORGANIC POLYPHOSPHATE

P-32 **Savchuk R.**, Bashmakova N., Kutovyy S., Zaika L. SANGUINARINE – DNA INTERACTION: BINDING PARAMETERS

P-33 **Sych T.**, Bashmakova N., Kutovyy S., Zaika L. PECULIARITIES OF BINDING OF ACRIDINE ORANGE AND ETHIDIUM BROMIDE TO DNA

P-34 **Usenko E.L.**, Valeev V.A., Andrushchenko V.V., Sorokin V.A. PECULIARITIES OF ZN^{2+} ION INTERACTIONS WITH SINGLE-STRANDED POLY(A) IN NEUTRAL SOLUTION

P-35 **Vashchenko O.V.**, Krasnikova A.O., Iermak Iu.L., Lisetski L.N. ON THE ROLE OF UNIVALENT IONIC MEDIUM IN THE PHASE STATE OF MODEL MULTIBILAYER PHOSPHOLIPID MEMBRANES

P-36 **Vergun L.Yu.**, Zabashta Yu.F., Zagorodnia O.A., Svechnikova O.S. KINETICS OF OVALBUMIN DENATURATION AT TEMPERATURE OF HYPERTYREXIA: THE EXPERIMENTAL PROCEDURE

P-37 Zozulya V.N., Ryazanova O.A., **Zhigalova N.N.** FORMATION OF POLYNUCLEOTIDE NANOSCALE AGGREGATES INDUCED BY METAL IONS

P-38 **Zhytniakivska O.A.**, Kastorna A.P., Trusova V.M., Gorbenko G.P., Adachi E., Mizuguchi C., Saito H. INTERACTION BETWEEN APOA-I MUTANTS AND LIPID NANOVESICLES AS REVEALED BY FLUORESCENCE RESONANCE ENERGY TRANSFER

P-39 Alekseev A.N., Dovgopola A.V., **Tkachev S.U.** EFFECT OF SACCHARIDES ON THE ELECTRICAL CONDUCTIVITY OF AQUEOUS SOLUTIONS OF ELECTROLYTES

P-40 **Krasnikova A.O.**, Vashchenko O.V., Kasian N.A., Zinchenko A.V., Lisetski L.N. PHASE STATE OF MULTILAYER LIPID MEMBRANES IN WATER/GLYCEROL MIXTURES

P-41 Ilchenko M.M., **Dubey I.Ya.** THEORETICAL MODELING OF G-QUADRUPLEX STRUCTURE FORMED BY TEL22 DNA

P-42 **Muzyka K.M.**, Karim K., Piletsky S.A., Rozhitskii M. COMPUTATIONAL DESIGN OF SUPRAMOLECULAR RECEPTORS AGAINST MELAMINE

P-43 **Simonov K.A.**, Kanevska P.P., Volkov S.N. CONFIGURATIONAL MECHANICS OF DNA MACROMOLECULE WITH SIGNIFICANT DEFORMATIONS

P-44 Trusova **V.M.** SIMULATION-BASED ANALYSIS OF PROTEIN ADSORPTION ONTO NANOSCALE LIPID MONOLAYER

P-45 **Zimin A.A.**, Densov I.A., Belobrov P.I. QUANTUM STATES OF PROTEIN – NANODIAMOND HYBRIDS

P-46 Kryvyi S., **Dolgoplov I.** SOME ASPECTS OF INTERACTION BETWEEN SELF-SIMILARITY STRUCTURES

P-47 Zabolotnyy M.A., **Kobzar P.J.**, Kulish N.P., Dmytrenko O.P. THERMALIZATION CARRIERS IN ORGANIC SEMICONDUCTORS IN THE PRESENCE OF AN EXTERNAL ELECTRIC FIELD

P-48 **Berezovska I.V.**, Rozhytskii M.M. SEMICONDUCTOR QUANTUM-DIMENSIONAL STRUCTURES FOR PHOTODYNAMIC THERAPY

P-49 **Giryach M.S.**, Maliyov I.L., Romanova M.V., Gorbenko G.P., Adachi E., Mizuguchi C., Molotkovsky J., Saito H. FLUORESCENCE ENERGY TRANSFER STUDY INTO LIPID BILAYER INTERACTIONS OF NANOFIBRILS FORMED BY TRUNCATED APOLIPOPROTEIN A-I

P- 50 **Glibitskiy G.M.** TEXTURES OF THE FILMS OF HUMAN SERUM ALBUMINE

P-51 Neupert J., **Murtazaeva L.A.**, Limanskaya O.Yu., Limanskii A.P., Bock R. EXPERIMENTAL TESTING OF STEM-LOOP STRUCTURES AS PUTATIVE RNA THERMOMETERS IN SALMONELLA ENTERICA

P-52 **Ogurtsov A.N.**, Bliznjuk O.N. LIPID MEMBRANE-MEDIATED SINGLE-MOLECULE KINETICS OF HETEROGENEOUS ENZYME CATALYSIS

P-53 **Perepelytsya S.M.**, Glibitskiy G.M., Volkov S.N. TEXTURE FORMATION IN DNA FILMS WITH ALKALI METAL CHLORIDES

P-54 Rostopira T.V., Barabash Y.M. , Drapikovskiy M.A., Zabolotny M.A. MODELS OF KINETICS OF ELECTRON TRANSPORT IN BACTERIAL REACTION CENTERS

P-55 **Sichevska L.V.**, Ovsiannikova T.N., Dyachenko V.D., Lipova A.S. THE FEATURES OF INTERACTION OF THE NEW ORGANOSELENIUM COMPLEXES WITH BIOMEMBRANES

P-56 **Goryunov A.S.**, Rozhkov S.P, Borisova A.G., Rozhkova N.N. STRUCTURAL AND REDOX EFFECTS OF SHUNGITE NANOCARBON ON ADSORBED AND DISSOLVED PROTEINS

P-57 Nadejde C., Creanga D., Tufescu F. , **Vochita G.** PRELIMINARY STUDY ON THE MAGNETIC NANOPARTICLES IMPACT ON THE RED BLOOD CELLS