

11-th International Conference "BIOCATALYSIS-2017"

Plenary session

Authors	Presenting person	Title
Dick B. Janssen, Xiaoyu Niu, Hesam Arabnejad, Elisa Lanfranchi, and Hein J. Wijma	Janssen Dick	Directed enzyme evolution supported by computational tools
Gabibov Aleksander	Gabibov Aleksander	TBA
Khoronenkova Svetlana	Khoronenkova Svetlana	Signaling of single-strand breaks in DNA
Popov Vladimir	Popov Vladimir	TBA
Bachurin Sergey	Bachurin Sergey	TBA
Sinitsyn A.P. , A.M. Rozhkova, O.A. Sinitsyna, E.G. Kondratieva, O.G. Korotkova, E.A. Rubtsova, P.V. Volkov, I.N. Zorov, I.A. Shashkov, A.D. Satrutdinov	Sinitsyn Arkady	The creation of the enzyme preparations of new generation with improved operational characteristics for use as feed additives

Tishkov V.I., Pometun A.A., Kargov I.S., Zarubina S.A., Stepashkina S.V., Atroshenko D.L., Fedorchuk V.V., Savin S.S.	Tishkov Vladimir	Rational design of practically important enzymes
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Oral presentations

Authors	Presenting person	Title
Aisina R.B., L.I. Mukhametova, K.B. Gershkovich	Aisina Roza	Thrombolytic efficacy of combined action of plasminogen activators
Aleksashkin A.D., A.N. Vaneev, T.O. Abakumova, O.A. Kost, A.V. Kabanov, N.L. Klyachko	Aleksashkin Anton	Synthesis of superoxide dismutase nanoparticles and their modification by chitosan for ophthalmic applications
Andreev E.A., Komkova M.A., Karyakin A.A.	Andreev Egor	Electrochemical sensor based on poly(3-aminophenylboronic acid) for microorganism's detection

<p>Atroshenko D.L., Shelomov M.D., Karnaukhov V.K., Kotova E.Yu., Savin S.S., Golubev I.V., Tishkov V.I.</p>	<p>Atroshenko Denis</p>	<p>Mutants of D amino acid oxidase with increased resistance to hydrogen peroxide</p>
<p>Bacheva A.V., Kryachkov V.A., Tashlitsky V.N., Gabibov A.G.</p>	<p>Bacheva Anna</p>	<p>Effect of the length and composition of oligopeptides on the kinetics of their hydrolysis by proteasome complexes</p>
<p>S.M. Baldin, N.M. Misiura, V.K. Svedas</p>	<p>Baldin Semen</p>	<p>Modeling of interactions of L,D-transpeptidase 2 from Mycobacterium tuberculosis with substrate and inhibitors</p>
<p>Borisova A.S., Eneyskaya E.V., Bobrov K.S., Ibatullin F., Jana S., Payne C.M., Kulminskaya A.A., Sandgren M., Stahlberg J.</p>	<p>Borisova Anna</p>	<p>Sequence, structure and function correlation concepts in the GH7 cellobiohydrolases</p>

Dyrkheeva NS, Zakharenko AL, Komarova AO, Mamontova EM, Ilina ES, Zakharova OD, Drenichev MS, Oslovsky VE, Mikhailov SN, Reynisson J, Lavrik OI	Dyrkheeva Nadezhda	Development of the DNA repair enzyme tyrosyl-DNA-phosphodiesterase 1 inhibitors as drugs precursors
Efremenko E.N*., Lyagin I.V.	Efremenko Elena	Non-covalent complexes of hexahistidine-containing organophosphorus hydrolase: new properties and novel opportunities
Egorov A.M., Grigorenko V.G., Rubtsova M.Yu., Uporov I.V.	Egorov Alexey	Bacterial enzymes and antibiotic resistance
Feoktistova Natalia, Balabushevich Nadezda, Volodkin Dmitry	Feoktistova Natalia	Catalase loading into porous CaCO ₃ crystals: Adsorption versus co-precipitation and bioactivity retention
Filatova L.Y. , D.M. Donovan, T.A. Chubar, V.G. Pugachev, N.L. Klyachko	Filatova Lyubov	Lytic enzymes of staphylococcal phages: correlation structure-enzymatic properties

Gazaryan I.G., Khristichenko A.Yu, Osipyants A.I., Smirnova N.A., Hushpulian D.M., Nikulin S.V., Chubar T.A., Zakhariants A.A., Tishkov V.I., Poloznikov A.A.	Gazaryan Irina	Novel generation of luciferase fusion reporters for drug discovery: the study on substrate specificity of HIF prolyl hydroxylase
Gusakov A.V., Yu.A.Denisenko, A.S.Dotsenko, A.M.Rozhkova, P.V.Volkov, I.N.Zorov, O.A.Sinitsyna, A.V.Bashirova, O.G.Korotkova	Gusakov Alexander	Protein engineering of carbohydrases from Penicillium species
Karpova E.V., Karyakina E.E., Karyakin A.A.	Karpova Elena	Stabilized Prussian blue based glucose and lactate biosensors for non-invasive medical diagnostics
Karyakina E.E. , A.A. Karyakin	Karyakin Arkady	Biosensors based on nano-structures of electro- and biocatalysts for non-invasive diagnostics
Khrenova Maria , Alexander Nemukhin	Khrenova Maria	Molecular mechanism of antibiotics hydrolysis by metallo- β -lactamase

<p>N.L. Klyachko, A.D. Aleksashkin, A.N. Vaneev, E.A. Zaitseva, N.L. Eremeev, I.I. Nicol'skaya, P.V. Binevsky, O.V. Beznos, N.V. Nukolova, A.B. Belova, P.V. Gorelkin, A.V. Kabanov, N.B. Chesnokova, O.A. Kost</p>	<p>Klyachko Natalia (Zaitseva)</p>	<p>Therapeutic efficiency of recombinant superoxide dismutase 1 within polymeric nanoparticles for the treatment of inflammatory eye diseases</p>
<p>Koltover V.K., P. Graber, V.K. Karandashev, P. Turina, I. Starke</p>	<p>Koltover Vitaly</p>	<p>Magnetic-isotope effects in synthesis and hydrolysis of ATP catalyzed by mitochondrial H⁺-ATP synthase/hydrolase</p>
<p>Komkova M.A., Karyakin A.A.</p>	<p>Komkova Maria</p>	<p>Advanced self-powered (bio)sensors based on Prussian blue for wearable devices</p>
<p>Korotkova O.G., E.G.Kondratieva, D.A. Merzlov, O.A. Sinitsyna, A.P.Sinitsyn</p>	<p>Korotkova Olga</p>	<p>Comparative analysis of commercial enzyme preparations for feed production</p>
<p>Kost O.A.</p>	<p>Kost O.A.</p>	<p>Tissue specificity of human angiotensin I-converting enzyme</p>

Kots E.D., Khrenova M.G., Lushchekina S.V., Nemukhin A.V., Varfolomeev S.D.	Kots Ekaterina	Molecular modeling approach to understand the activity control mechanisms of Human brain aspartoacylase.
Kudryashova E.V., Deygen I.M., Skuredina A.A., Klyachko N.L.	Kudryashova Elena	SCF technique for encapsulation of Moxifloxacin and Levofloxacin with biodegradable polymers of different nature
Anna A. Kulminskaya	Kulminskaya Anna	Filamentous fungi is a promising toolbox for biotechnology
Kurbatova E.I., Rimareva L.V., Polyakov V.A.	Kurbatova Elena	Biotechnological bases of plant and microbial raw materials processing with using of the controlled biocatalytic destruction of the cell wall polymers
Le-Deygen I.M. , E.O. Kutsenok, M.V. Efremova, P.G. Rudakovskaya, S.L. Gribanovsky, A.O. Ghigachev, D.Y. Golovin, I.A. Boldyrev, E.L.Vodovozova, E.V. Kudryashova, A.G. Majouga, A.V. Kabanov, Yu.I. Golovin, N.L. Klyachko	Le-Deygen Irina	Membrane microviscosity changes induced by ultrasound or magnetic field can be detected by FTIR-spectroscopy and fluorescence spectroscopy
G.Yu.Lomakina, N.N.Ugarova	Lomakina Galina	Bioluminescent monitoring of the microbiological quality of freeze-dried microorganisms

Lushchekina Sofya , Patrick Masson, Alexander V. Nemukhin, Sergei D. Varfolomeev	Lushchekina Sofya	Molecular modeling of cholinesterase kinetic complexities
Makhaeva G.F. , N.P. Boltneva, N.V. Kovaleva, S.V. Lushchekina, S.O. Bachurin, Ya.V. Burgart, E.V. Shchegol'kov, V.I. Saloutin, P. Masson, R.J. Richardson	Makhaeva Galina	Polyfluoroalkyl-containing 2-arylhydrazono-3-oxoesters as selective carboxylesterase inhibitors for improving efficacy and rational use of drugs
A.V. Maksimenko, A.V. Vavaeva, M.A. Zvjaginzeva, A.A. Abramov, A.A. Timoshin, V.L. Lakomkin	Maksimenko Alexander	Efficacy of protective action mechanism for antioxidant bienzyme conjugate
Masson Patrick, Sofya Lushchekina	Masson Patrick	Hysteretic behavior of enzymes, from molecular mechanisms to functional significance
Matolygina D.A., Eremeev N.L., Ovchinnikova E.D., Atroshenko D.L., Savin S.S., Smirnov S.A., Tishkov V.I., Levashov A.V., Levashov P.A.	Matolygina Daria	Interleukin-2 and lysozyme as bacteriolytic agents: comparison of properties

Morozova I.A., Shcherbakova T.A., Svedas V.K.	Morozova Irina	Penicillin acylase-catalyzed removal and transfer of protecting groups of amino compounds in peptide synthesis
Muronetz Vladimir	Muronetz Vladimir	Glycation of glycolytic enzymes and induction of amyloid neurodegenerative diseases
Nechaeva N.L., Kurochkin I.N.	Nechaeva Natalia	Surface-enhanced Raman Sensors for Protein Detection
Немашкалов В.А., Беккаревич А.О., Бубнова Т.В., Матыс В.Ю., Рожкова А.М., Синицын А.П.	Nemashkalov Vitaliy	Особенности глубинного культивирования грибных продуцентов внеклеточных карбогидраз
Alexander Nemukhin, Bella Grigorenko	Nemukhin Alexander	Molecular mechanisms of chromophore maturation and decomposition in the green fluorescent protein
Nikitina Vita N., Nikolay V. Zaryanov, Arkady A. Karyakin	Nikitina Vita	Hydroxy acids imprinted poly(anilineboronic acid) for selectivity improvement of the advanced affinity sensor
Maksim Nikulin, Nikita Misiura, Vyta Svedas	Nikulin Maksim	Stereoselective chemoenzymatic synthesis of 2,5-diketomorpholines
D.K. Nilov, I.V. Gushchina, V.K. Svedas	Nilov Dmitry	Identifying new inhibitors of DNA repair enzymes

Orlova M.A., Trofimova T.P., Orlov A.P.	Orlova Marina	Zinc-containing complexes as antileukemic agents and potential chelators for radiopharmaceuticals
Robert S. Phillips*, Pafe Poteh, Katherine A. Miller, and Timothy R. Hoover	Phillips Robert	STM2360 is a novel D-Amino acid decarboxylase in Salmonella enterica serovar typhimurium
Poloznikov A.A., Khristichenko A.Yu., Smirnova N.A., Zakhariants A.A., Savin S.S., Hushpulian D.M., Tishkov V.I., Gazaryan I.G.	Poloznikov Andrey	Neh2-Luc assay: a new tool to study the efficiency of cell-permeable Nrf2-derived peptides
Pometun A.A., S.A. Zarubina, I.S. Kargov, P.D. Parshin, S.S. Savin, V.I. Tishkov	Pometun Anastasiya	New formate dehydrogenases

Rodina E. , O. Petrova, A. Mantsyzov, S. Efimov, J. Hakanpaa, A. Lebedev, C. Hackenberg, A. Malyavko, T. Zatsepin, M. Zvereva, V. Lamzin, V. Polshakov, O. Dontsova	Rodina Elena	N-terminal domain of TERT is part of a DNA/RNA duplex boundary definition in yeast telomerase
Rozhkova A.M., O.G. Korotkova, E.A. Rubtsova, D.A. Merzlov, A.V. Bashirova, A.A. Volchok, D.O.Osipov, I.N. Zorov, A.P. Sinitsyn	Rozhkova Aleksandra	Comparison of recombinant ascomycetes strains as producers of multienzyme complexes for fodder production
M. Rubtsova, M. Ulyashova, Yu. Pobolelova, G. Presnova, A. Filippova, I. Andreeva, A. Egorov	Rubtsova Maya	Multianalysis of genes and single nucleotide polymorphisms by microchips with horseradish peroxidase-based detection
Semenyuk Pavel I. , Vladimir A. Izumrudov, Vladimir I. Muronetz	Semenyuk Pavel	Chaperone-like activity of polyanions: preventing amorphous and amyloid aggregation of proteins

Sereda A.S., Kostyleva E.V., Velikoretskaya I.A., Nefedova L.I., Sharikov A.Yu., Tsurikova N.V., Skorokhod V.V., Sinitsyn A.P.	Sereda Anna	Technologies for obtaining soybean feed additives based on extrusion and enzymatic hydrolysis
Shvetsova S.V., Naryzhny S.N., Korban S.A., Bobrov K.S., Kulminskaya A.A.	Shvetsova Svetlana	Enzymes from plant pathogen <i>Fusarium proliferatum</i> LE1 and their application in biotechnology
Skuredina A.A., Le- Deygen I.M., Kudryashova E.V	Skuredina Anna	Synthesis, physico-chemical properties of 3D-imprinted complexes of moxifloxacin with sulfobutyl ether β -cyclodextrin oligomers
Smirnova D.V. , N.N.Ugarova	Smirnova Daria, Ugarova Natalia	Fusion proteins based on firefly luciferase and their application in biospecific assays
V. Svedas, I. Gushchina, L. Meshalkina, D. Nilov, E. Shmalhauzen, D. Suplatov	Svedas Vytas	How we do modulate functional properties of enzymes
Urusov A.E., Petrakova A.V., Taranova N.A., Kuznecova D.A., Bartosh A.V., Gubaidullina M.K., Zherdev A.V., Dzantiev B.B.	Urusov Alexandr	New approaches for highly sensitive immunochromatographic detection of toxic food contaminants
Vokhmyanina D.V., Karyakina E.E., Karyakin A.A.	Vokhmyanina Darya	Thin-film amperometric enzyme multibiosensor based on Prussian Blue for simultaneous determination of lactate and glucose in blood

Zarubina S.A., A.A. Pometun, S.S. Savin, V.I. Tishkov	Zarubina Sophia	Structure-function relationship in formate dehydrogenase from thermotolerant yeast
Zherdev A.V., Taranova N.A., Byzova N.A., Zvereva E.A., Dzantiev B.B.	Zherdev Anatoly	Development of immunochromatographic tests for food safety control with increased sensitivity and informational output
Zorov I.N., Volchok A.V., Rozhkova A.M., Korotkova O.G., Kondratieva E.G., Sinitsyn A.P.	Zorov Ivan	Определение активности ферментов в кормах и премиксах

Posters presentations

Authors	Presenting person	Title
Anashkin V.A., Baykov A.A	Anashkin Viktor	Cooperative regulation of bacterial nucleotide-binding pyrophosphatase
Aslanli A.G., Maslova O.V., Senko O.V., Stepanov N.A., Lyagin I.V., Efremenko E.N.	Aslanli Aysel	Hexahistidine-containing organophosphorus hydrolase as a Quorum Quenching enzyme used against Gram-negative bacteria
Balabushevich N.G., Sholina E.A., Filatova L.Y., Volodkin D.V.	Balabushevich Nadezhda	Mucin-based drug delivery system using porous CaCO ₃ microspheres

Kseniya Barinova, Elena Schmalhausen, Vladimir Muronetz	Barinova Kseniya	Influence of glycation of alpha-synuclein on its amyloid transformation
Bodulev O.L., A.V. Gribas, M. M. Vdovenko and I.Yu. Sakharov	Bodulev Oleg	Homogeneous chemiluminescent assay of nucleic acids based on allosteric activation of peroxidase-mimicking DNAzyme
Brkich L.L., Dosadina E.E., Pyatigorskaya N.V., Evdokimenko A.Y., Savelyeva E.E., Medusheva E.O., Kulagina A.S. and Belov A.A.	Brkich Liliana	Stabilization of proteinases by polymers and therapeutic agents during production, storing and exploitation of enzyme-containing gel
A.S. Dotsenko, A.M. Rozhkova, A.V. Gusakov, A.P. Sinitsyn	Dotsenko Anna	N-Linked glycans affect the processivity of cellobiohydrolase II from <i>Penicillium verruculosum</i> on insoluble cellulose
Eremeev N.L., Matolygina D.A., Tishkov V.I., Levashov A.V., Levashov P.A.	Eremeev Nikolay	Formal kinetic models for description of enzymatic cell lysis
Evstafeva D.B., Semenyuk P.I., Muronetz V.I.	Evstafeva Diana	The proteolytic degradation of polyelectrolyte-protein complexes

<p>A. A. Ezhov, A. V. Romanyuk, I. D. Grozdova, N. S. Melik-Nubarov</p>	<p>Ezhov Alexander</p>	<p>The use of chemiluminescent reaction of polyoxalate for elimination of tumor cells subjected to oxidative stress</p>
<p>Stepanova A.Y. , D.M. Donovan, N.L. Klyachko, L.Y. Filatova</p>	<p>Filatova Lyubov</p>	<p>The study of the kinetic properties of the phage 8161 enzyme that can lyse Staphylococcus aureus cells</p>
<p>Gachok I. V., I.I. Nikolskaya¹, O. V. Beznos², A. I. Eltsov¹, , N. B. Chesnokova², O. A. Kost¹ 1 M.V. Lomonosov Moscow State University, Chemistry Faculty, Russia 2 Helmholtz Moscow Research Institute of Eye Diseases, Russia</p>	<p>Gachok Irina</p>	<p>Timolol and lisinopril inclusion into calcium phosphate particles: an application in ophtalmology</p>
<p>Glukhov Sergey I. , Natalia V. Komarova, Maria S. Andrianova, Alexander E. Kuznetsov</p>	<p>Glukhov Sergey</p>	<p>Cy3 and Cy5 labels at 5'-end of DNA maybe used as a double role agent for protection of dsDNA against ?-exonuclease and for fluorescent applications</p>

<p>Vdovenko M. M. , N. A. Byzova, A. V. Zherdev, B. B. Dzantiev and I. Yu. Sakharov</p>	<p>Gribas Anastasia</p>	<p>Synthesis of ternary covalent conjugate (antibody-gold nanoparticle-horseradish peroxidase) and its application in enzyme immunoassay</p>
<p>Gribas A.V. , I.Yu. Sakharov</p>	<p>Gribas Anastasia</p>	<p>Allosteric activation of peroxidase-mimicking DNAzyme as biosensing platform for homogeneous Hg²⁺ detection</p>
<p>Radik A. Zaynullin, Raikhana V. Kunakova, Elza K. Khusnutdinova, •Bulat I. Yalaev, Anna Ilyina, E. Patricia Segura- Ceniceros, Monica L. Chavez- Gonzalez, Marina V. Gernet, Evgeny S. Batashov</p>	<p>Ilyina Anna</p>	<p>Dihydroquercetin: Known Antioxidant – New Inhibitor of Alpha-Amylase Activity</p>

<p>Perez-Guzman Ana Karina, Rodolfo Ramos-Gonzalez, Jose Luis Martinez- Hernandez, Elda Patricia Segura- Ceniceros, Monica L. Chavez- Gonzalez, Alejandro Zugasti- Cruz, Mayela Govea Salas, Anna Ilyina</p>	<p>Ilyina Anna</p>	<p>Nanostructured system design for magnetic purification of lipase</p>
<p>Palacios-Ponce Arturo Socrates, Jose Francisco Cortes-Arganda, Rodolfo Ramos- Gonzalez, Hector Arturo Ruiz-Leza, Georgina Michelena, Jose Luis Martinez- Hernandez, Elda Patricia Segura- Ceniceros, Monica L. Chavez- Gonzalez, Mayela Govea Salas, Anna Ilyina</p>	<p>Ilyina Anna</p>	<p>Ethanol production by <i>Kluyveromyces marxianus</i> surface adhesion fermentation on chitosan-coated magnetic nanoparticles</p>

<p>Enamorados-Rodriguez Yulaisi, Eida Patricia Segura-Ceniceros, Alejandra Isabel Vargas-Segura, Rodolfo Ramos-Gonzalez, Monica L. Chavez-Gonzalez, Jose Luis Martinez-Hernandez, Mayela Govea Salas, Anna Ilyina</p>	<p>Ilyina Anna</p>	<p>Screening of aqueous extracts from Mexican medicinal plants to the presence of acetylcholinesterase inhibitors</p>
<p>Gracia Arrechiga Carlos Abraham , Jose Luis Martinez-Hernandez, Elva Teresa Arechiga Carvajal, Eida Patricia Segura-Ceniceros, Rodolfo Ramos-Gonzalez, Monica L. Chavez-Gonzalez, Mayela Govea Salas, Anna Ilyina</p>	<p>Ilyina Anna</p>	<p>Lipase production by <i>A. niger</i> surface adhesion fermentation on chitosan-coated magnetic nanoparticles</p>

<p>Kirzhanova E.A., Deygen I.M., Balabushevich N.G., Veselov M.M., Filatova L.Yu., Demina N.B., Klyachko N.L.</p>	<p>Kirzhanova Ekaterina</p>	<p>SOD entrapment into alginate/chitosan mucoadhesive microparticles by ionotropic gelation method</p>
<p>Koltover V.K. , R.D. Labyntseva, K.V. Lytvyn, V.I. Yavorovska, V.K. Karandashev and S.O. Kosterin</p>	<p>Koltover Vitaly</p>	<p>Nuclear spin catalysis in living nature: Magnetic-isotope effects of ^{25}Mg and ^{67}Zn in ATP-hydrolysis driven by myosin</p>
<p>Smirnova D.V. , V.K. Koltover, S.V. Nosenko, I.A. Strizhova and N.N. Ugarova</p>	<p>Koltover Vitaly</p>	<p>Firefly luciferase bioluminescence as a tool for searching magnetic isotopic effects in ATP-dependent enzyme reactions</p>
<p>Kudryavtseva S.S., Stroylova Y.Y., Muronetz V.I.</p>	<p>Kudryavtseva Sofiya</p>	<p>Interaction of the chaperone cell system with amyloidogenic proteins</p>
<p>A. Fomina¹, K. Novototskaya- Vlasova², M. Kryukova^{3,4}, L. Petrovskaya⁵, E. Rivkina², G. Lomakina^{1,6}</p>	<p>Lomakina Galina</p>	<p>Properties of the new cold-active esterase PMGL3 from the permafrost microbial community</p>

<p>Lu W., Matolygina D.A., Smirnov S.A., Levashov P.A.</p>	<p>Lu Wenjia</p>	<p>Bacteriolytic activity of lysozyme in presence of SDS and Tween 21 in the system of living cells Lactobacillus plantarum</p>
<p>Malakhova M.A, Sukhoverkov K.V, Alexandrova S.S, Pokrovskaya M.V, Sokolov N.N, Kudryashova E.V.</p>	<p>Malakhova Mary</p>	<p>Regulation of the biocatalytic properties of recombinant L-asparaginase Rhodospirillum rubrum by formation of conjugates with PEG-chitosan</p>
<p>Osipov D.O., Gusakov A.V., Merzlov D.A., Volchok A.A., Semenova M.V., Rubtsova E.A.</p>	<p>Osipov Dmitrii</p>	<p>Thermostability improvement of a β-1,4-endoxylanase XylE from <i>P. canescens</i> by site-directed mutagenesis</p>
<p>Osipyants A.I., Smirnova N.A., Hushpulian D.M., Khristichenko A.Yu., Poloznikov A.A., Tishkov V.I., Gazaryan I.G.</p>	<p>Osipyants Andrey</p>	<p>L-Ascorbic acid: a substrate for HIF prolyl hydroxylase?</p>
<p>Parshin P.D., A.A. Pometun, S.Yu. Kleimenov, Tishkov V.I.</p>	<p>Parshin Pavel</p>	<p>Increase of thermal stability of plant formate dehydrogenase by rational design</p>

Razo S.C., Panferov V.G., Safenkova I.V., Zherdev A.V., Dzantiev B.B	Razo Shyatesa	Double enhancement based lateral flow immunoassay for potato virus X detection
R. Romanov, D. Karlov, E. Rodina	Romanov Roman	Analysis of the subfamily-specific structural determinants in Family I Inorganic Pyrophosphatases
G. Presnova, D. Presnov, I. Bozhjev, A. Egorov, V. Krupenin, M. Rubtsova	Rubtsova Maya	Determination of cancer biomarkers on silicon nanowire field effect transistors
Vdovenko M. M. , N. A. Byzova, A. V. Zherdev, B. B. Dzantiev and I. Yu. Sakharov	Sakharov Ivan	Synthesis of ternary covalent conjugate (antibody-gold nanoparticle-horseradish peroxidase) and its application in enzyme immunoassay
Samohvalov A.V., Safenkova I.V., Eremin S.A., Zherdev A.V., Dzantiev B.B.	Samokhvalov Alexey	Using anchor constructions to increase sensitivity of fluorescent polarisation aptamer assay: A case study for ochratoxin A
Savinova O.S. , K.V. Moiseenko, T. V. Tyazhelova, D.V. Vasina	Savinova Olga	Trametes hirsuta 072 laccase multigene family: constitutive and inducible isozymes' transcriptional regulation and properties
Shelomov M.D., Atroshenko D.L., Savin S.S., Tishkov V.I	Shelomov Michail	Multipoints mutants of D amino acid oxidase with increased thermal stability and activity with Cephalosporin C
Софронова Алина Андреевна	Sofronova Alina	Влияние гликирования бета-казеина на его взаимодействие с природными и синтетическими полиэлектролитами

Stepanov N.A., Senko O.V., Makhlis T.A., Efremenko E.N	Stepanov Nikolay	Highly concentrated cell populations in the processes of dextran and pullulan biosynthesis
Stroylova Yulia, Svetlana Sorokina, Aleksandra Melnikova, Victor Stroylov, Zinaida Shifrina, Vladimir I. Muronetz	Stroylova Yulia	Study of complexes between cationic pyridylphenylene dendrimers with proteins and nanofilm formation
Virolainen T.C., I.S. Kargov, A.A. Pometun, V.I. Tishkov	Virolainen Tatyana	Study of catalytic properties of new mutant formate dehydrogenases from the bacterium <i>Staphylococcus aureus</i>
Volkov P.V., Rozhkova A.M., Merzlov D.A., Rubtsova E.A., Sinitsyn A.P.	Volkov Pavel	Development of strain-producers of xylanase E using an alternative glucoamylase gene promoter from the fungus <i>Penicillium verruculosum</i>
G.P. Shumakovich, O.V. Morozova, M.E. Khlupova, I.S. Vasil'eva, E.A. Zaitseva, A.I. Yaropolov	Zaitseva Elena	Matrix-assisted synthesis of poly(3,4-ethylenedioxi-thiophene)/multiwalled carbon nanotubes composite using fungal laccase <i>Trametes hirsuta</i>
Zaryanov N.V., Karyakin A.A.	Zaryanov Nikolay	Reagentless hypoxia sensor for sweat analysis based on molecular imprinting boronate-substituted polyaniline