

POSTER SESSIONS

01/10 Monday 17:50-18:25

Poster N.	Title. List of authors.	Stage N.
1	Analysis of Dynamics in an Intrinsically Disordered Protein using NMR Relaxation by Grouping Residues in Segments Abyzov A, Salvi N, Blackledge M	1
2	Analysis of hyaluronic acid metabolism gene expression profiles in neurodegenerative disorders using transcriptome analysis methods Azbukina NV, Gorbatenko VO, Chistyakov DV, Astakhova AA, Sergeeva MG	2
3	The effect of chromophoric group modifications on the spectral properties of proteorhodopsin from <i>E sibiricum</i> (ESRh) Belikov NE, Melnikova IA, Demina OV, Kryukova EA, Petrovskaya LE, Kuzmichev PK, Chupin VV, Lukin AY, Soloviov DV, Chizhov I, Shumsky AN, Levin PP, Varfolomeev SD, Khodonov AA	3
4	SIRT1 and SIRT6 as possible markers of thymus aging Bode II, Polyakova VO, Kvetnoy IM	4
5	Microfluidic flows of photometabolites acting on chlorophyll fluorescence reveal cell-to-cell communications in <i>Chara</i> Bulychev AA, Rubin AB	5
6	Epigenetic alterations in ischemic penumbra in the rat cerebral cortex induced by photothrombotic stroke Demyanenko SV, Dzreyan VA, Guzenko VV, Uzdensky AB	6
7	Neurotrauma: Expression of signaling proteins in axotomized crayfish ganglia Dzreyan VA, Guzenko VV, Berezhnaya EV, Neginskaya MA, Uzdensky AB	7
8	Functional adenine nucleotide translocator is required for maintenance of mitochondrial network in yeast Galkina KV, Sokolov SS, Markova OV, Severin FF, Knorre DA	8
9	Some features of HSP70 expression and content in peripheral blood of patients with obliterating arteriosclerosis Grechikhina MV, Bornusova AA, Dzyubinskaya EV, Shustova OA, Sapozhnikov AM	9
10	Amino acid linkers optimization for the FusionRed-based voltage sensor enhancement Ivanova VO, Kost LA, Povarova NV, Nikitin ES, Bogdanov AM	10
11	Axotomy-induced ultrastructural alterations and Ca²⁺-dependent necrosis and apoptosis of the crayfish mechanoreceptor neuron and glial cells Khaitin AM, Rudkovskii MV, Fedorenko AG, Uzdensky AB	11
12	Study of the interaction of products of mutant endothelin- and eNOS genes with vascular membranes, as the cause of arterial hypertension Kisakov DN	12
14	Glycophorin A transmembrane helices dimerization: the role of the lipid environment Kuznetsov AS, Efremov RG	14
15	Toward the first orphan GPCR structure Lin X, Xu F	15
16	Novel light-driven proton pump: functional and structural study Malyar NL, Okhrimenko IS, Petrovskaya LE, Popov PA, Soloviov DV, Alekseev AA, Kovalev KV, Zabelskii DV, Chizhov IV, Borshchevskiy VI, Rokitskaya TI, Antonenko YN, Dolgikh DA, Kirpichnikov MP, Gordeliy VI, Bueldt G	16
17	Facilitation of NMR Assignment of Membrane Proteins with Limited Stability by Combinatorial Selective Labeling Myshkin MYu, Dubinnyi MA, Kulbatskii DS, Lyukmanova EN, Shenkarev ZO	17
18	The Role of Acetylcholine in P2X7-gated Mast Cells Activation Nurkhametova DF, Koroleva KS, Sinyavin AE, Tsetlin VI, Giniatullin RG	18
20	CompoMug for prediction of stabilizing mutations in GPCRs Popov PA, Katritch VY	20
21	Stilbene derivative as a photosensitive compound to control the excitability of neonatal rat cardiomyocytes Frolova SR, Romanova SG, Agladze KI	21
22	Zinc binding properties of human growth hormone Konovalova EV, Schulga AA, Okhrimenko IS, Mitkevich VV, Makarov AA, Deyev SM	22
23	Immunotherapeutic targeting of immunological synapse Sharonov GV	23
24	Structural basis of Human GPR55 for diabetes and obesity therapies Hao S, Cherezov V	24
26	Structure of SMA 3000-stabilized lipodisks: a computer modelling study Tarasov KA, Armeev GA, Shaytan KV	26

27	Phospho-specific antibodies for studying the function of LPAP Tsoy TD, Kruglova NA, Filatov AV	27
28	Controlled release of Doxorubicin from magnetoliposomes under low-frequency magnetic field Vlasova KY, Abakumova TO, Melnikov PA, Golovin YI, Kabanov AV, Markvicheva EA, Klyachko NL	28
29	Peptide - based regulation of brain cell plasmatic membrane receptor systems functional activity Vyunova TV, Andreeva LA, Shevchenko KV, Myasoedov NF	29
30	Understand the metabolism of pancreatic beta cells by FLIM Wang Z	30
31	The development of selective inhibitors of phosphotyrosine phosphatase 1B on the basis of 4-oxo-1,4-dihydrocinnoline structure and their application to treat diet-induced obesity Zakharova IO, Sorokoumov VN, Derkach KV, Shpakov AO	31
32	Activation of mammal prion protein specific aggregation by glycated β-casein Zanyatkin IA and Muronetz VI	32

02/10 Tuesday 10:25-10:50

Poster N.	Title. List of authors.	Stage N.
33	The specificity of carboxypeptidase T from <i>Thermoactinomyces vulgaris</i> may be altered by changing the hydrophobicity of S1' binding pocket Akparov VKh, Timofeev VI, Khaliullin IG, Konstantinova GE, Podshivalov DD, Svedas V, Kuranova IP, Rakitina TV	1
34	Investigation of interactions of agitoxin-2 and its derivatives with hybrid potassium channels Bagaeva DF, Kudryashova KS, Feofanov AV, Nekrasova OV	2
35	Disfunction of mitochondria and membranes permeability in sepsis under the influence of microbial metabolites Fedotcheva NI, Teplova VV, Beloborodova NV	3
36	The advantages of the GI-XSW technique for investigation of protein langmuir monolayers formed from the polydisperse solutions Boikova AS, Marchenkova MA, Dyakova YA, Ilina KB, Seregin AY, Pisarevskiy YV, Rogachev AV, Kovalchuk MV	4
38	The dynamics of changes in the cellular and intracellular distribution of sirtuins 1, 2 and 6 in early post-stroke recovery Demyanenko SV, Berezhnaya EV, Neginskaya MA	6
39	Virtual screening of novel ligands of cytochromes P450 Dzichenka YU, Shapira MA, Savić M, Ajduković J, Jovanović-Šanta S	7
40	Structural and Functional Study of Human Full-length Glucagon-Like peptide 1 Receptor GLP-1R Fan W, Stevens RC	8
41	Light-induced structure changes in Bacteriorhodopsin D96N by SAXS Gapchenko AA, Vlasov AV, Ryzhykau YL, Zabelskii DV, Kovalev YS, Rogachev AV, Bueldt G, Kuklin AI, Gordeliy VI	9
42	Investigation of the influence type of solvents (H₂O and D₂O) on the formation of oligomers in lysozyme solution by small-angle x-ray scattering Ilina KB, Boikova AS, Dyakova YA, Konarev PV, Marchenkova MA, Pisarevsky YV, Kovalchuk MV	10
43	Effect of amphipathic helices on the mechanical properties of the lipid bilayer Ivchenkov DV, Kuzmin PI, Bashkirov PV, Chekashkina KV	11
44	The effects of fullerene derivatives on the model lipid membranes Khaleneva DA, Efimova SS, Litasova EV, Piotrovsky LB, Ostroumova OS	12
45	Live-cell super-resolution microscopy with blue fluorescent protein TagBFP Klementieva NV, Lukyanov KA, Zagaynova EV, Mishin AS	13
46	Location of the General Anesthetics in Model Membranes Hrubovčák P, Kondela T, Dushanov E, Kholmurodov K, Kučerka N	14
47	The pattern of <i>Prkcz</i> gene expression is regulated epigenetically and depends on cellular identity Kuznetsova MA, Borodinova AA	15
48	Markers of gene expression imbalance for the model of Down syndrome in vitro Lubinet AA, Artyuhov AS, Dashinimaev EB	16
49	The cytochrome c complexes with cardiolipin monolayer formed at different surface pressure Marchenkova MA, Boikova AS, Dyakova YA, Ilina KB, Seregin AY, Tereschenko EY, Vladimirov YA, Kovalchuk MV	17
50	Structural and biophysical studies of a LOV domain-derived fluorescent protein Nazarenko VV, Remeeva A, Yudenko A, Kovalev K, Goncharov IM, Rogachev AV, Dhoke GV, Schwaneberg U, Davari MD, Jaeger KE, Krauss U, Gordeliy V, Gushchin I	18
51	Functional studies and spatial structure of new retinal-binding proteins Okhrimenko IS, Popov PA, Malyar NL, Chupin VV, Petrovskaya LE, Dolgikh DA, Novoseletsky VN, Kudriavtsev AV, Shaitan KV, Gordeliy VI, Kirpichnikov MP	19
52	Structure-functional studies of a new autotransporter from <i>Psychrobacter cryohalolentis</i> K5^T Petrovskaya LE, Shingarova LN, Zlobinov AV, Kryukova EA, Novototskaya-Vlasova KA, Dolgikh DA, Kirpichnikov MP	20
53	Unusual tandem HCN- and K_v-like channels of eukaryotic microorganisms Pozdnyakov I, Safonov P	21
54	Numerical representation of GPCR – ligand interactions for machine learning Romanovskaia DD, Popov PA	22
55	Optical study of adenylyl cyclase signalling cascade in regulation of viscoelastic properties of human erythrocytes membrane Semenov AN, Shirshin EA, Rodionov SA, Omelyanenko NP, Muravyov AV, Priezzhev AV	23
56	Mechanisms of modulation of GABA_A receptor chloride channels by niflumic acid Sharonova IN, Rossokhin AV	24
57	SAXS and densimetry studies of DMPC/POPE mixture: morphology or structure changes? Skoi VV, Rulev MI, Kazantsev AS, Pavlova AA, Chupin VV, Soloviov DV, Gordeliy VI, Kuklin AI	25

58	Effect of stimulation of medial septal neurons on the expression of genes in rat hippocampus Kuznetsova MA, Spivak YS, Ravodina A, Dobryakova YV, Markevich VA, Bolshakov AP	26
59	The effect of triclosan on the functioning of marsh frog (<i>Pelophylax ridibundus</i> (Pallas, 1771)) liver mitochondria Dubinin MV, Tenkov KS, Starinets VS, Krasnoshchekova OE, Samartsev VN, Belosludtsev KN	27
60	Low resolution structure of modular nanotransporters obtained by small-angle X-ray scattering method Vlasova AD, Khramtsov YV, Vlasov AV, Kuklin AI, Gordelij VI, Sobolev AS	28
61	Effects of Neonatal Pro-Inflammatory Stress on the Expression of Genes Associated with Neuroinflammation and Stress Reactivity in the Neocortex and Hippocampus of Juvenile Rats Volobueva MN, Kvichanskii AA, Manolova AO, Bolshakov AP, Gulyaeva NV	29
62	Observation of the Interaction between Glp-1 and Glp-1R by Paramagnetic Relaxation Enhancement NMR Wang H, Hu W, Xu T, Liu D, Wüthrich K	30
63	Putative role of transmembrane domain dimerization in activation of proteins from the Insulin receptor family Zamaletdinov MF, Kuznetsov AS, Maurice P, Efremov RG	31
64	Sequence-based analysis of sodium binding pocket in GPCRs Zaretskiy MS, Katritch VY, Popov PA	32

02/10 Tuesday 16:00-16:25

Poster N.	Title. List of authors.	Stage N.
65	The models of bio-membranes at different levels of organization Aleksееva OM, Golochshapov AN , Kim YuA	1
66	The mechanisms of the reduced basal and stimulated by the agonists of luteinizing hormone receptor production of testosterone in aging male rats Bakhtyukov AA, Derkach KV, Shpakov AO	2
67	A study of the interaction of the new antituberculous drug delamanid with liposomes and rat liver mitochondria Belosludtsev KN, Belosludtseva NV, Tenkov KS, Penkov NV, Starinets VS, Petrova LV, Dubinin MV	3
68	Protein expression with intact N-terminal sequence Bogorodskiy AO, Gensch T, Malyar NL, Okhrimenko IS, Büldt G, Borshchevskiy VI	4
69	Using Principal Component Analysis of Lipid Molecule Conformations to Quantitatively Describe Membrane Behavior Buslaev P, Mustafin K, Gushchin I	5
70	The fatty acid-modified peptide fragment of leptin as the effective regulator of leptin signaling pathways in the hypothalamic neurons in the conditions of the <i>in vitro</i> and <i>in vivo</i> Derkach KV, Shpakova EA, Zakharova IO, Zorina II, Romanova IV, Shpakov AO	6
71	Effect of homocysteine and its derivatives on oxidative stress in rat pituitary GH3 cells Ermakova EV, Gayfullina AS, Sitdikova GF	7
72	The prenatal hyperhomocysteinemia promoted high sensitivity to 4-aminopyridineF-induced epileptiform activity in hippocampal slices of the rat Gataulina E, Kurmashova E, Ermakova E, Sitdikova G, Yakovlev A	8
73	Study of visual pigment rhodopsin supramolecular organization in photoreceptor membrane by SAXS and SANS Ivankov OI, Feldman TB, Murugova TN, Kuklin AI, Yakovleva MA, Belushkin AV, Gordeliy VI, Ostrovsky MA	9
74	Knowledge-based prediction of protein-ligand binding affinities Kadukova M, Chupin V, Grudin S	10
75	Is the root cause of aging located inside or outside the cell membrane? Khalyavkin AV	11
76	Activation of acid-sensing channels stimulates cell-type specific calcium entry in rat cerebellum Kolbaev SN	12
77	Bacteriorhodopsin electronic structure and its modification during <i>all-trans</i> → <i>13-cis</i> photoisomerisation Kudriavtsev AV, Novoseletsky VN, Armeev GA, Shaitan KV, Kirpichnikov MP	13
78	Neonatal Proinflammatory Stress Induces Selective Increase in IL-6 Expression in Adult Rat Hippocampus Kvichanskii AA, Tretyakova LV, Bolshakov AP, Lazareva NA, Stepanichev MY, Manolova AO, Gulyaeva NV	14
79	Spider toxin inhibits gating pore currents in mutant sodium channels Lukyanov DK, Männikkö R, Berkut AA, Kullmann DM, Vassilevski AA	15
80	The complex analysis of X-ray mesh scans for macromolecular crystallography Melnikov IA, Bourenkov GB, Svensson O, Leonard GA, Popov AN	16
81	Comparison of size and other properties of lysine dendrimers and short lysine dendritic brush Neelov IM, Shavykin OV, Ilyash MY, Bezrodnyi VV, Mikhtanuk SE, Darinskii AA	17
82	Probing the assembly dynamics and structure of styrene–maleic acid lipid particles by coarse-grained simulations Orekhov PS, Bozdaganyan MY, Shaitan KV	18
83	Lipidomic analysis of different phenotypic forms of Mycoplasmas Vanyushkina AA, Egorova AN, Yushina EA, Semashko TA, Rakovskaya IV, Pobeguts OV	19
84	Lentiviral gene delivery to plasmolipin-expressing cells using <i>Mus caroli</i> endogenous retrovirus envelope protein Shulgin AA, Spirin PV, Lebedev TD , Prokofjeva MM , Stocking C, Prassolov VS	20
85	The role of $\beta(+)/\alpha(-)$ intersubunit transmembrane interface in GABA_AR potentiation Rossokhin AV	21
86	Ionophoric effect of free bile acids Study on isolated liver mitochondria Semenova AA, Khoroshavina EI, Dubinin MV, Samartsev VN	22
87	NMR Spectroscopy Identifies Binding Interfaces in the Complex of Gating Modifier Toxin Hm-3 with First Voltage-Sensing Domain of Nav14 Sodium Channel Myshkin MY, Paramonov AS, Berkut AA, Kulbatskii DS, Vassilevski AA, Lyukmanova EN, Shenkarev ZO	23
88	Evaluation of the possibility of simultaneous using membrane biosensors and vital dyes in determining the sensitivity of 2D and 25D systems based on cancer cell lines to oncotoxic drugs Skorova E, Petersen E, Shabalina E	24

89	Clones of adaptive NK cells can be obtained by stimulation with IL-2 and K562-mbIL21 Streltsova MA, Erokhina SA, Kanevskiy LM, Kovalenko EI	25
90	Spatial distributions of Na⁺ and K⁺ around charged carboxyl groups in solution environment and in Na_vMs channel selectivity filter Terterov IN, Svirina AA, Pozdnyakov IA	26
91	Volume-sensitive outwardly rectifying anion channel in mouse peritoneal macrophages Tsiferova NA, Merzlyak PG, Sabirov RZ	27
92	New inward H⁺ pumps xenorhodopsins Tsybrov F, Alekseev A, Shevchenko V, Gordeliy V	28
93	Guanidine hydrochloride fixed bacteriorhodopsin in the intermediate state of its photocycle Kuklin AI, Vlasov AV, Ryzhykau YL, Dencher N, Hauss T, Tugan-Baranovskaya AD, Teixeira J, Yaguzhinskiy LS, Büldt G, Gordeliy VI	29
94	Molecular modeling of agitoxin 2 complex with Kv11 binding site Volyntseva AD, Novoseletsky VN, Shaitan KV, Nekrasova OV, Feofanov AV	30
95	Specific changes in heart and liver mitochondrial membranes under conditions of the respiratory system supercomplex formation Yaguzhinsky LS, Byvshev IM, Nesterov SV, Shaposhnikov VR, Meshkov GB, Yaminsky IV, Kuklin AI, Ivankov OI, Murugova TN	31
96	Matrices of on-chip Pt/TaOx/Ta resistive switching memory devices for future bioelectronic applications Zhuk M, Negrov D, Matveyev Yu, Zenkevich AV	32

03/10 Wednesday 10:25-10:50

Poster N.	Title. List of authors.	Stage N.
97	Electron-transfer protein-protein complex formation in higher plants, green alga and cyanobacteria Fedorov VA, Kovalenko IB, Khruschev SS, Ustinin DM, Antal TK, Riznichenko SS, Rubin AB	1
98	Studying of exon-intron gene structure using spliceosome blockade in neuronal culture Bal NV, Chesnokova EA, Uroshlev LA, Kolosov PM	2
99	Structural analysis of the nuclear and mitochondrial membranes of rat hepatocytes in experimental hyperthyroidism by electron microscopy Belosludtseva NV, Pavlik LL, Venediktova NI, Belosludtsev KN, Khmil NV, Gorbacheva OS, Talanov EY, Mironova GD	3
100	The role of chromosome segregation defects in premature ageing Bolanos-Garcia V.	4
101	Recombinant analogue of Mambalgin-2 from <i>Dendroaspis polylepsis</i> inhibits proliferation of glioblastoma cells Bychkov ML, Kulbatskii DS, Shlepova OV, Loktyushov EV, Gibadullina OR, Shulepko MA, Lyukmanova EN	5
102	Orphan Receptor Tyrosine Kinase of the Insulin Receptor Family Takes Shape: Structural study by Small-Angle X-Ray Scattering and AFM Deyev IE, Shtykova EV, Petoukhov MV, Mozhaev AA, Dadinova LA, Loshkarev NA, Jeffries CM, Batishchev OV, Petrenko AG, Svergun DI	6
103	A new approach for the synthesis of biologically important nucleotides using a thermostable multi-enzymatic cascade Esipov RS, Timofeev VI, Kuranova IP, Kostromina MA, Tuzova ES, Abramchik YA, Esipova LV, Sinitsyna EV, Fateev IV, Muravieva TI, Miroshnikov AI	7
104	Identification of novel Trace Amine-Associated Receptor- ligands among clinically used drugs Gerasimov AS, Korenkova OM, Gainetdinov RR	8
105	Triphenylphosphonium-based antioxidants slow down stress-induced senescence in the human cells Ilyinsky NS, Dobrynin AI, Gordeliy VI	9
106	The Effect of Suction Process on the Growing of Gas Bubble with Convective Acceleration Abu-Nab AK, Mohammadein SA	10
107	Photochromic labels as a new challenge for nanobiotechnology Khodonov AA, Belikov NE, Demina OV, Melnikova IA, Lukin AY, Shumsky AN, Levin PP, Varfolomeev SD	11
108	Lipid bilayer deformations regulate functioning of gramicidin A channel and determine its clustering Kondrashov OV, Galimzyanov TR, Kotova EA, Antonenko YN, Akimov SA	12
109	SANS investigations of biological objects on YuMO spectrometer: results and possibilities Kuklin AI, Rogachev AV, Soloviov DV, Ivankov OI, Murugova TN, Chupin VV, Rulev MI, Skoi VV, Kučerka N, Vlasov AV, Gordeliy VI	13
110	Compensatory upregulation of neurotrophin signaling rescues neuroblastoma cells from death after KIT knockdown Lebedev T, Spirin P, Vagapova E, Petrov I, Suntsova M, Rubtsov P, Buzdin A, Prassolov V	14
111	Smart ligand-sensitive monolayers based on modified liposomes for biomedical applications Lunin AV, Cherkasov VR, Nikitin MP	15
112	Changes in functioning of glyceraldehyde-3-phosphate dehydrogenase during synucleinopathies Melnikova AK, Medvedeva MV, Evstafyeva DB, Kuravsky ML	16
113	Inorganic polyphosphate modulates electrophysiological activity of neurons and signal transduction in glial cells Neginskaya MA, Berezhnaya EV	17
114	The role of OsO₄ fixation in the contrast formation of cellular membrane structures Panait AI, Pogorelov AG	18
115	Time-dependent intracellular localization of externally applied Alzheimer's disease Aβ₁₋₄₂ peptide Podolyak EY, Okhrimenko IS, Maslov IV, Bogorodskiy AO, Burkatovskiy DS, Borshchevskiy VI, Dencher NA	19
116	Selective fluorescent probe for potassium Kv13 channel based on GFP-tagged agitoxin 2 Primak AL, Geraskina OV, Feofanov AV, Nekrasova OV	20
117	X-Ray structural studies of membrane proteins at high pressure Rulev M, Melnikov I, Carpentier P, Kovalev K, Astashkin R, Gordeliy V, Leonard G, Popov A	21
118	The investigation of the induced contractile activity of the mouse colon and the role of FFA3 in IBS Shaidullof IF, Shafigullin MU, Sorokina DM, Sitdikov FG, Sitdikova GF	22

119	Simultaneous imaging of structurally different objects: pathogens, phagocytic cells lymphatic and blood vessels in whole-mount airway samples using advanced fluorescent microscopy Bogorodskiy AO, Bolkhovitina EL, Borshchevskiy VI, Sapozhnikov AM, Shevchenko MA	23
120	Chitosan-mannose conjugate as a functionalizing agent for liposomal form of fluoroquinolones: synthesis and properties Skuredina AA, Kudryashova EV, Le-Deygen IM	24
121	KIT downregulation in AML cells increase sensitivity to kinase inhibitors Spirin PV, Vagapova ER, Lebedev TD, Rubtsov PM, Prassolov VS	25
122	Complex biochemical and biophysical study of CYP136 from <i>Mtuberculosis</i> Sushko TA, Smolskaya S, Vasilevskaya A, Buhdrucker S, Tsumoto K, Kavaleuski A, Marin E, Usanov SA, Borshchevskiy V, Strushkevich NV	26
123	Alanine mutation of Glu125 and Asp649 enhance the effectivity of catalysis and modulate secondary substrate specificity of oligopeptidase B from <i>S proteamaculans</i> Talyzina AA, Timofeev VI, Agapova YK, Karlinsky DM, Mikhailova AG, Rakitina TV	27
124	Kilohertz serial crystallography with wide-bandwidth X-ray beam Tolstikova A, Levantino M, Yefanov O, Hennicke V, Fischer P, Meyer J, Mozzanica A, Redford S, Crosas E, Opara N, Oberthuer D, Mohacsi I, Schmitt B, Chapman H, Meents A	28
125	The role of Ca²⁺ and NF-κB in NO generation in photosensitized neurons and glial cells Rodkin SV, Kovaleva VD, Berezhnaya EV, Neginskaya MA Uzdensky AB	29
126	The effect of oregano essential oil on Balb/c mice longevity Vorobyova AK, Goloschapov AN, Misharina TA, Alinkina ES, Fatkullina LD, Burlakova EB	30
127	Two types of quinol:periplasmic e-transporter oxydoreductases Yanyushin MF	31
128	Membrane-derived virus-like particles as a transport vehicle for mRNA molecules Zhitnyuk Y, Gee P, Lung MSY, Sasakawa N, Xu N, Saito H, Hotta A	32

03/10 Wednesday 15:30-15:55

Poster N.	Title. List of authors.	Stage N.
129	Plasma and nuclear membrane localization of Paraoxonase 2 in different types of Malignancies Antipova NV, Pavlyukov MS, Shakhparonov MI	1
130	Model implantation of photosensitive cells reveals necessary cluster size needed for pacing of the heart culture Balashov VA, Agladze KI	2
131	Expression, purification and NMR study of the transmembrane domains of the insulin-like receptor family Bershacky YV, Bocharova OV, Bocharov EV, Urban AS, Arseniev AS	3
132	3D structure of natural tetrameric form of human butyrylcholinesterase obtained by cryo-electron microscopy Boyko KM, Baimukhametov TN, Chesnokov YM, Hons M, Lushchekina SV, Konarev P, Lipkin A, Vasiliev AL, Masson P, Popov V	4
133	Noradrenaline switch mesenchymal stem/stromal cells to proinflammatory phenotype Chechekhin VI, Ivanova AM, Turin-Kuzmin PA	5
134	PECVD grown SiO_x based memristor devices Dmitrieva AV, Mutaev IA, Lebedinskii YY, Zenkevich AV	6
135	Potential protein factors for cross-talking between mycoplasmas and environment Evsyutina DV, Pobeguts OV, Bukato ON, Ladygina VG, Fisunov GY	7
136	Resonance Raman spectroscopy to investigate changes in cytochromes under inflammation and metabolic disorders Nikelshparg EI, Glukhanuk EV, Davies L, Sosnovtseva O, Brazhe NA	8
137	Role of Iowa mutation on the structure and dynamics of APP transmembrane domain of Alzheimer's disease Iusupov AE, Nadezhdin KD, Bocharova OV, Urban AS, Bocharov EV, Arseniev AS	9
138	Detergent-free solubilization of human potassium channels expressed in eukaryotic cells Karlova MG, Glukhov GS, Kacher JG, Shaitan KV, Sokolova OS	10
139	Development of coarse-grained models of P aeruginosa lipopolysaccharides with different antigen chains Kholina EG, Orekhov PS, Bozdaganyan ME, Kovalenko IB, Strakhovskaya MG	11
140	Single cysteine containing RNase barnase and DARPin G3 as components of "molecular constructor" for addressed toxin production Konovalova EV, Schulga AA, Lukyanova TI, Deyev SM	12
141	DDM solubilization based protocol for isolation and purification of spinach chloroplast ATP synthase Kurbatov NM, Drobyshev AL, Vlasov AV, Okhrimenko IS, Kuklin AI, Dencher NA, Gordeliy VI	13
142	The prove of Na,K-ATPase and Src kinase direct interaction and the role of glutathionylation in complex formation Lakunina VA, Petrushanko IY, Mitkevich VA, Dergousova EA, Lopina OD, Makarov AA	14
143	Production and structural study of the Toll-Like Receptor 1 cytoplasmic domain Lushpa VA, Goncharuk MV, Goncharuk SA, Mineev KS, Arseniev AS	15
144	Design and synthesis of new amphiphilic polymers for specific interaction with streptavidin and solubilization of membrane proteins Mikhailov AE, Kuzmichev PK, Senko DA, Andreev SM, Chupin VV	16
145	The key role of mitochondrial ROS in the development of autocatalytic pathophysiological process at diabetes mellitus Nesterov SV, Yaguzhinsky LS, Podoprigora GI, Nartsissov YR	17
146	Pharmacophore model for nisin/lipid II interaction in bacterial membrane Panina IS, Chugunov AO, Nolde DE, Efremov RG	18
147	Computer-aided study of umifenovir binding by the Influenza hemagglutinin Podshivalov DD, Kirilin EM, Švedas VK	19
148	Increased efficiency of doxorubicin due to electroporation of cancer cell membranes by pulse-periodic microwave and x-ray radiation Prosekina E	20
149	The application of postnatal and iPS-derived cells for human hair follicle and skin reconstruction <i>in vitro</i> Ryabinin AA, Kalabusheva EP, Vorotelyak EA	21
150	The chain of dihedral angles: How does it rotate in condensed media? Shaitan KV	22
151	Deuterium reinforced fatty acids for combined treatment of neurodegenerative diseases: application for gene therapy Sharko OL, Fomich MA, Ulashchik EA, Bekish AV, Shchepinov MS, Shmanai VV	23
152	The effect of erythropoietin receptors agonist on ultrastructural organization of primary hippocampal cultures after hypoxia modeling Shirokova OM, Mishchenko TA, Vedunova MV, Mukhina IV	24

153	Chronic ethanol ingestion induces glomerular filtration barrier proteins genes expression alteration and increases matrix metalloproteinases activity in the kidney Shirpoor A, Samadi M	25
154	Personalized ionic models of cardiomyocytes on the basis of molecular data and genetic algorithms Smirnov DN, Belyakova GA, Syunyaev RA, Gusev OA, Deviatiiarov RM, Efimov IR	26
155	Signals of migraine pain from meningeal trigeminal fibers activated by ATP and serotonin: new model in neuron environment Talanov M, Suleimanova A, Gafurov O, Gafarov F, Giniatullin R	27
156	Interaction of the Domain with Unknown Functions of Telomere-Binding Protein TRF2 with Nuclear Lamina Travina AO, Ilicheva NV, Voronin AP, Podgornaia OI	28
157	Response of leukemia cells to KIT downregulation via activation of pro- apoptotic and pro-survival signaling pathways Vagapova ER, Spirin PV, Lebedev TD, Poymenova NY, Buzdin AA, Rubtsov PM, Prassolov VS	29
158	Conformational study of an archaeal photoreceptor/transducer complex from <i>Natronomonas pharaonis</i> assembled in lipid nanoparticles using EPR spectroscopy Voskoboynikova N, Mosslehy W, Colbasevici A, Bagrov DV, Mulkidjanian AY, Klare JP, Shaitan KV, Kirpichnikov MP, Steinhoff HJ	30
159	Engineering of a monomeric thermostable LOV domain-derived fluorescent protein Yudenko A, Smolentseva A, Goncharov I, Nazarenko V, Remeeva A, Gushchin I	31
160	Intranasal insulin administration normalizes the gene expression of antioxidant enzymes in the two-vessel ischemia and reperfusion in the rat brain Zorina II, Saveleva LO, Bakhtyukov AA, Shpakov AO	32

04/10 Thursday 11:25-11:50

Poster N.	Title. List of authors.	Stage N.
161	Molecular modeling of cytokinin signaling components from potato <i>Solanum tuberosum</i> L Arkhipov DV, Lomin SN, Myakushina YA, Savelieva EM, Romanov GA	1
162	Structural study of magnetic alginate membranes with CoFe₂O₄ nanoparticles for biomedical applications Pahomi A, Balasoiu M, Gorshkova YE, Turchenko V, Lizunov N, Aranghel D, Rogachev AV, Kuklin AI	2
163	K(ATP)- channels contribute in the decrease of Ca²⁺- transient in the mouse atria by NaHS Blokhtina AS, Khaertdinov NN, Sitdikova GF	3
164	Interaction of hyaluronic acid with dermal membrane: a molecular dynamics simulation study Bozdaganyan ME, Orekhov PS	4
165	Identification of abnormalities in mice with transglutaminase type 3 mutation Chermnykh ES, Rippa AL, Vorotelyak EA	5
166	High-yield expression of eukaryotic light-driven pump from <i>Lmaculans</i> in LEXSY and its spectroscopic characterization Dmitrieva N, Volkov O, Shevchenko V, Okhrimenko I, Astashkin R, Soloviov D, Kovalev K, Zabelskii D, Büldt G, Gordeliy V	6
167	The utility of sulfonamide group in the design of bifunctional neuraminidase inhibitors Evtsev SA, Polenova AM, Nilov DK, Švedas VK	7
168	Studies of the sensory domain of histidine kinase QseC Goncharov IM, Nazarenko VV, Remeeva A, Gushchin I	8
169	Interference of a D-enantiomeric peptide with hetero-association of amyloid-β oligomers and prion protein Rösener NS, Gremer L, Reinartz E, König A, Brener O, Heise H, Hoyer W, Neudecker P and Willbold D	9
170	The role of inner mitochondrial membrane in aging and age-related diseases Kasumov EA, Kasumov RE, Kasumova IV	10
171	Molecular Dynamics Studies of Nanosized Systems Combined with Neutron Scattering Experiments Kholmurodov K and Majumder S	11
172	Structural organization of Sigma-1 receptor in normal and neuropathology Korban S	12
173	ATR-FTIR spectroscopy reveals spectral features of exosomal membrane valuable for drug delivery systems development Kutsenok EO, Le-Deygen IM, Usvaliev AD, Haney MJ, Golovin YI, Batrakova EV, Kabanov AV, Klyachko NL	13
174	Liposomal form of fluoroquinolones: how to control physico-chemical properties? Le-Deygen IM, Skuredina AA, Melnikova SV, Kudryashova EV	14
175	Characterization of rhodopsin from Antarctic UV-resistant bacteria <i>Hymenobacter sp</i> (LR1) Lyubaykina NA, Okhrimenko IS, Volkov D, Soloviov D, Popov PA, Antonenko YN, Rokitskaya TI, VI Gordeliy, Bueldt G	15
176	Single-Particle Electron Microscopy Structure of Voltage-Gated K_vAP Channel Mikirtumov VI, Kulbatskii DS, Karlova MG, Lyukmanova EN, Maksimov GV, Shenkarev ZO, Sokolova OS	16
177	Design of pegylated lipoplex Nosova AS, Koloskova OO, Khaitov MR	17
178	SAS investigations of size changes in lipid vesicles near temperature point of phase transition Rulev MI, Pavlova AA, Ivankov OI, Soloviov DV, Rogachev AV, Skoi VV, Chupin VV, Gordeliy VI, Kuklin AI	18
179	Antioxidant properties of tetra nitrosyl iron complex Poletaeva DA, Soldatova YV, Faingold II, Pokidova OV, Rudneva TN, Sanina NA, Kotelnikova RA	19
180	Comparative analysis of serotonin 5-HT receptors from X-RAY, EM, MD Popinako AV, Antonov MY, Sokolova OS, Shaitan KV	20
181	MRI-Based Perspective on “Virtual Organ” Qin Q, Thompson GJ and Stevens RC	21
182	Characterization of Thermostable LOV-based Fluorescent Protein Variants with Mutations of a Highly Conserved Glutamine Remeeva A, Nazarenko V, Kovalev K, Yudenko A, Goncharov I, Gordeliy V, Gushchin I	22
183	Modern materials used in 3D-Bioprinting and methods of their improvement for use in regenerative medicine Ryabov VM	23
184	Doxorubicin-loaded folate liposomes for targeted drug delivery Sapach A, Gileva A, Koloskova O, Markvicheva E	24

185	Localization of luciferase of fungus <i>Neonothopanus nambi</i> Shakhova ES, Chepurnykh TV, Myshkina NM, Yampolsky IV	25
186	A long-term administration of low-molecular-weight agonist of luteinizing hormone receptor into male rats causes a steady increase in testosterone level and does not induce resistance to gonadotropins Shpakov AO, Bakhtyukov AA, Dar'in DV, Derkach KV	26
187	Interactions between ergosterol biosynthesis (ERG) and ergosterol transport (LAM) genes in yeast <i>Saccharomyces cerevisiae</i> Sokolov SS, Trushina NI, Knorre DA and Severin FF	27
188	Discreteness of charge effects in binding of cationic membrane-active peptides to lipid bilayer Svirina AA, Terterov IN	28
189	Influence of stabilizing amphiphiles on the integrity of fluid, gel and liquid-ordered phase antitumor liposomes loaded with lipophilic prodrug in the bilayer Tretiakova DS, Vodovozova EL	29
190	LCP crystallization of A2A adenosine receptor bound to amilorides Valkov MS, Shevtsov MB, Mishin AV, Cherezov V	30
191	Adrenaline induces calcium signal in neurons and astrocytes Vukolova MN, Manole A, Abramov AY, Angelova PR	31
192	Light-driven sodium pump KR2 electrophysiological characterization Zakharov N, Alekseev A, Shevchenko V and Gordeliy V	32

05/10 Friday 10:50-11:15

Poster N.	Title. List of authors.	Stage N.
193	Self-organized 3D neural organoids derived from Down syndrome IPS cells are representative model of early stages of Alzheimer's disease Artyuhov AS, Abdyev VK, Meshcheryakova NV, Dashinimaev EB	1
194	Using tag-mediated labelling and FRET approaches to investigate ligand-induced dynamics of GPI-anchored membrane receptor in living cell Balatskaya MN, Sharonov GV, Baglay AI, Tkachuk VA	2
195	Signal transduction mechanism <i>via</i> transmembrane domains of bitopic receptors studied by high-resolution NMR Bocharov EV, Lesovoy DM, Mineev KS, Bocharova OV, Urban AS, Volynsky PE, Efremov RG, Arseniev AS	3
196	Proteases in <i>in meso</i> crystallization Bratanov D, Round E, Gushchin I, Balandin T, Gordeliy V	4
197	Multi-scale imaging highlights a critical role of spectrin in hearing development and deafness Chu C, Zhong G	5
198	Ca²⁺ uptake and permeability transition in heart and skeletal muscle mitochondria: a comparative study Dubinin MV, Starinets VS, Tenkov KS, Khoroshavina EI, Belosludtsev KN	6
199	Blue light causes the activation of apoptotic genes in the pigment epithelium of the human retina Fakhranurova LI	7
200	Closer look at unbinding transition of phosphatidylcholine membranes induced by calcium ions Gorshkova YE, Gordeliy VI, Tropin TV	8
201	Serotonin induced heterologous sensitization of alpha1A-adrenergic receptors in mesenchymal stem / stromal cells Ivanova AM, Chechekhin VI, Turin-Kuzmin PA	9
202	Antibacterial/hemolytic activity of long-length cyto-insectotoxins is gained due to the cumulative effect of its parts Kazakova ED, Kim AA, Ignatova AA, Ivanov IA, Zhmak MN, Feofanov AV, Dubovskii PV, Efremov RG	10
203	The effect of energy metabolism level of erythrocytes on their oxygen membrane permeability Kirichenko MN, Zaritsky AR, Rybalchenko GV	11
204	Oxytocin/vasopressin receptors in trigeminal nociceptive system and their role in migraine pathology Koroleva KS, Shakirzyanova AV	12
205	Refinement of molecular complexes using geometrical constraints Popov PA, Kurdyuk AI	13
206	Sodium nitroprusside increases the activity of rat trigeminal nerve Leonova IV, Konyshv YaG, Ermakova E, Koroleva KS, Sitdikova GF	14
207	Recombinant analogue of human membrane-tethered protein Lynx1 abolishes the impairment of neuronal plasticity caused by Aβ₁₋₄₂ and JNK activation Shulepko MA, Bychkov ML, Vasilyeva NA, Balaban PM, Kirpichnikov MP, Lyukmanova EN	15
208	Changes of apoptosis and autophagy markers (membrane and nuclear) in cells of kidney cancer under the influence of <i>Gratiola officinalis</i> extract IN VIVO Mudrak DA, Navolokin NA, Polukonova NV, Polukonova AV, Bucharskaya AB, Maslyakova GN	16
209	Modeling of ATP synthase rotor ring protein-lipid complex Novitskaia OS, Buslaev P, Gushchin I	17
210	Comparative study of peroxidation intensity and resistance of erythrocyte membranes of mammals, birds and reptiles Paygachkina AS, Popova OV	18
211	GSNO is the most perspective glutathione-related substance in maintaining heart contractile function under hypoxic conditions Poluektov YM, Petrushanko IY, Undrovina NA, Lakunina VA, Khapchaev AY, Kapelko VI, Abramov AA, Lakomkin VL, Shirinsky VP, Mitkevich VA and Makarov AA	19
212	MMP-9 expression reduce by Crocetin in HCT-116 colorectal cancer cells Khajeh E, Rasmi Y, Kheradmand F, Malekinejad H	20
213	Small angle scattering structural study of the NpSRII/HtrII complex Ryzhykau YL, Rulev MI, Zabelskii DV, Nikolaev MY, Murugova TN, Soler-Lopez M, Kuklin AI, Engelhard M, Gordeliy VI	21
214	Superfused neocortex <i>in vivo</i> for exploration of the optical intrinsic signal Sharipzyanova LS, Suchkov DS, Minlebaev MG	22
215	Bacteriorhodopsin from <i>Exiguobacterium sibiricum</i>/amphipathic polymers complexes: functional studies Velikanova AV, Kuzmichev PK, Soloviov DV, Petrovskaya LE, Dolgikh DA, Shaitan KV, Kirpichnikov MP, Chupin VV	23

13	Sigma 1 receptor restores dendritic spines of medium spiny neurons in huntington disease in vitro model Kraskovskaya NA, Bolshakova AV, Bezprozvanny IB	24
19	Mass-spectrometry analysis of Natural Killer cells and microparticles membrane Zhdanova A.A.	25
37	Mitochondrial network dynamics examined with photoconvertible Dendra2-protein Maslov IV, Burkatovskiy DS, Zykov IO, Bogorodskiy AO, Altschmied J, Gensch T, Haendeler J, Büldt G, Borshchevskiy V	26

05/10 Friday 16:45-17:10

Poster N.	Title. List of authors.	Stage N.
216	Structural studies of glutamate transporter homologue from <i>Pyrococcus horikoshii</i> Astashkin R, Kovalev K, Baeken C, Zimmermann M, Alleva C, Machtens JP, Balandin T, Zinovev E, Fahlke C, and Gordeliy V	1
217	Close-up on mitochondria with surface-enhanced Raman spectroscopy Brazhe NA, Nikelshparg EI, Semenova AA, Goodilin EA, Baizhumanov AA, Bochkova ZV, Novikov SM, Deev LI, Sosnovtseva O, Maksimov GV	2
218	Structural insights into initial steps of Alzheimer disease via mutation-induced conformational variability of APP transmembrane domain Bocharov EV, Urban AS, Nadezhdin KD, Kuzmichev PK, Volynsky PE, Efremov RG, Arseniev AS, Bocharova OV	3
219	Effect of Dimebon on lifespan extension based on <i>C elegans</i> model Marusich EI, Budaeva MV, Kulamikhin IS, Ivanenkov YA, Zhavoronkov A, Yurovskaya MA, Leonov SV	4
220	Design of new potential anti-aggregatory agents Demina OV, Belikov NE, Lukin AY, Melnikova IA, Varfolomeev SD, Khodonov AA	5
221	Structure modeling of the human double-pore GIP-complex Dudko HV, Veresov VG	6
222	Study of the patch-clamp electrophysiological properties of cardiomyocytes derived from patient-specific iPSCs Frolova SR, Agladze KI	7
223	Membrane mimetic materials in protocell design and modeling Gradov OV, Gradova MA	8
224	The ALDH+ and SORE6+ cell subpopulations analysis in triple negative breast cancer cell lines Ivanova AE, Chumakov SP	9
225	SAXS studies of apoferritin in different pH with consideration of dimers Kazantsev AS, Vlasov AV, Ryzhykau YL, Zabelskii DV, Murugova TN, Ivankov OI, Rogachev AV, Zinovev EV, Kurbatov NM, Gordeliy VI, Kuklin AI	10
226	Conformational analysis of sialic acid in its p-nitrophenyl and lactose derivatives bound to Influenza membrane neuraminidase active site Kirilin EM, Podshivalov DD, Švedas VK	11
227	Visualization of G protein coupled receptors using Photoactivated Localization Microscopy (PALM) Kozyrina A, Ghose A, Lazar J	12
228	Charge transport and water relaxation in different biosystems. Z.Gagkaeva, K.Motovilov, M.Savinov, V.Grinenko, Z.Bedran, L.Kadyrov, E.Zhukova, B.Mostert, B.Gorshunov	13
229	Anomalous diffusion in complex heterogeneous media Likhomanova PA, Kalashnikov IY, Kudryavtsev EM	14
230	Monitoring of platelet membrane integrity, using vital staining Makarov MS	15
231	The role of P2X3 receptors of hydrogen sulfide in rat trigeminal nerve Mustafina AN, Koroleva KS, Sitdikova GF	16
232	Comparison of various substitution matrices for amino acid alignment and homology search of microbial rhodopsins Novoseletsky VN, Kudriavtsev AV, Armeev GA, Shaitan KV, Kirpichnikov MP	17
233	Biosensor analysis of the native membrane protein interactions in the biological membrane's lipid model Petrenko AR, Kurpedinov KS, Sonina DS, Florinskaya AV, Kaluzhskiy LA	18
234	Potential antibacterial drugs from unique collection of yeast-like fungi Shulenina OV, Yarovoy BF, Kirillov SV, Paleskava A, Konevega AL	19
235	Antidiabetic action of water-soluble pentamino acid derivatives of fullerene C₆₀ Soldatova YV, Areshidze DA, Faingold II, Poletaeva DA, Zhilenkov AV, Troshin PA, Kotelnikova RA	20
236	Detection of a calreticulin-like channel protein with properties of the ATP-sensitive potassium channel in the rat liver endoplasmic reticulum Talanov EY, Mironova GD	21
237	NMR study of human Lypd6 and Lypd6b proteins acting on nicotinic acetylcholine receptors Tsarev AV, Paramonov AS, Lyukmanova EN, Kulbatskii DS, Loktyushov EV, Chugunov AO, Shenkarev ZO	22
238	Determination of an Underneath Binding in the Transmembrane Domain of Smoothened Receptor Zhou F, Ding K, Zhou Y, Liu Y, Liu X, Zhao F, Wu Y, Zhang X, Xu F, Zhao S and Tao H	23

239	The effect of the dimebon on the thermoinduced structural transitions of the lipid bilayer Gerasimov N.	24
240	The effect of the dimebon and NT-1505 on the microsomal membrane microviscosity Nevrova O	25