

Table of contents

Paper ID 264787	<b>pp 1-5</b>	3D agent-based modeling of some aspects of the interaction between microtubules and microfilaments in cell	Marat Sabirov, Alexander Spirov
Paper ID 264836	<b>pp 6-9</b>	A new method for the diagnosis of osteoporosis based on standing waves	Konstantin Fedin, Olga Fazullina, Vadim Klimontov, Yuriy Kolesnikov
Paper ID 264783	<b>pp 10-13</b>	Accessing the impact of functional variants on human phenotypes by transcriptome analysis in individuals carrying different rSNP alleles	Elena Korbolina, Sergey Postovalov, Victor Nedelko, Vladimir Berikov, Igor Damarov, Leonid Bryzgalov
Paper ID 264785	<b>pp 14-17</b>	Adjoint Ensemble Methods for the Inverse Modeling of Biological Processes	Alexey Penenko, Ulyana Zubairova, Alexander Bobrovskikh, Alexey Doroshkov
Paper ID 264848	<b>pp 19-22</b>	ECG printout interpretation system for clinical decision support	Ekaterina Snegireva, Grigory R. Khazankin, Igor Mikheenko
Paper ID 264817	<b>pp 23-27</b>	Advanced data curation in GTRD database: hierarchical dictionaries of cell types and experimental factors	Mikhail A. Kulyashov, Semyon K. Kolmykov, Ivan S. Yevshin, Fedor A. Kolpakov
Paper ID 264813	<b>pp 28-31</b>	Age-related difference in use-dependent plasticity after divergent thinking session matches posterior-anterior shift in aging (PASA) model	Evgeniya Privodnova, Nina Wolf, Ekaterina Merculova, Dariya Bazovkina
Paper ID 264788	<b>pp 32-35</b>	Anchored Bootstrap	Vadim Efimov, Kirill Efimov, Vera Kovaleva
Paper ID 265255	<b>pp 36-39</b>	Application of flow Cytometry to Analyze Effect of Aluminum-Silicon Sorbent on Blood Erythrocytes	Pivkina A.V., Rachkovskaya L.N., Nimaev V.V., Smagin A.A., Shurygina A.V., Rachkovsky E.E., Yastrebova E.S., Maltsev V.P.
Paper ID 264819	<b>pp 40-42</b>	Application of neural networks to image recognition of wheat rust diseases	Mikhail Genaev, Skolotneva Ekaterina, Dmitry Afonnikov
Paper ID 264786	<b>pp 43-46</b>	Autoencoder-based Low-Rank Spectral Ensemble Clustering of Biological Data	Vladimir Berikov
Paper ID 264823	<b>pp 47-52</b>	Bioinformatic basis to define the species formation within Pectobacterium and Dickeya bacterial genera	Peter Evseev, Alexander Ignatov, Konstantin Miroshnikov
Paper ID 264781	<b>pp 53-56</b>	Bioinformatic methods applied to the analysis of the genes retained after the whole genome duplication events in the sterlet genome ( <i>Acipenser ruthenus</i> )	Mikhail Fofanov, Tatyana Sheglova, Vladimir Trifonov, Manfred Schartl
Paper ID 265266	<b>pp 57-60</b>	Bone remodeling in men with type 2 diabetes: is it just the same thing as in women?	Olga N. Fazullina, Maksim V. Dashkin
Paper ID 265261	<b>pp 61-64</b>	Clinical and metabolic parameters associated with time in ranges and glucose variability in patients with type 2 diabetes treated with insulin	Julia F. Semenova, Maksim V. Dashkin
Paper ID 264839	<b>pp 65-67</b>	Cognitive functions and a BDNF gene polymorphism in schizophrenia patients and healthy individuals	Anastasiia Boiko, Ekaterina Mikhalitskaya, Elena Kornetova, Svetlana Ivanova
Paper ID 264807	<b>pp 68-71</b>	COMPARATIVE ANALYSIS OF THE TYPES OF PROCESSING OF VISUAL INFORMATION FROM THE POINT OF VIEW OF COGNITIVE SCIENCE	Aleksandr A Kashtanov, Mihail E Pazhetnov, Elena V Kashtanova
Paper ID 264830	<b>pp 72-75</b>	Comparative Genomic Analysis of Moderate Bacteriophages of Alfalfa Root Nodule Bacteria	Muntyan V.S., Kozlova A.P., Afonin A.M., Muntyan A.N., Dzyubenko E.A., Kabilov M.R., Antonova E.V., Roumiantseva M.L.
Paper ID 264800	<b>pp 76-79</b>	Computer methods for visualization chromosome-specific DNA sequences in FISH images	Anton Bogomolov, Tatyana Karamysheva, Nikolay Rubtsov
Paper ID 264832	<b>pp 80-84</b>	COMT gene polymorphism and antipsychotic-induced hyperprolactinemia in schizophrenia patients	Svetlana Ivanova, Diana Paderina, Anastasia Boiko, Olga Fedorenko, Ivan Pozhidaev, Vladimir Tigunsev, Elena Kornetova, Nikolay Bokhan, Bob Wilffert, Anton Loonen
Paper ID 264846	<b>pp 85-87</b>	Consideration of pathogenicity of nsSNVs in <i>CDKN2A</i> gene, as a new tumor marker for leukemia, using bioinformatics methods	Farzaneh Ghasemi, Mehri Khatami, Mohammad Mehdi Heidari, Ludmila E. Tabikhanova, Yuriy L. Orlov

Paper ID 264824	<b>pp 90-92</b>	Delta- and gamma-activity of resting state EEG as one of markers of risk of depressive disorders in migrants of subpolar and polar regions of Siberia	Natalya Milakhina, Sergey Tamozhnikov, Ekaterina Proshina, Alexandra Karpova, Alexander Savostyanov, Elena Afanaseva
Paper ID 265251	<b>pp 93-96</b>	Dendritic cells as a key part in rheumatoid arthritis pathogenesis	Yuliya Kurochkina, Maxim Korolev, Elena Letyagina, Vitaliy Omel'chenko, Olga Poveshenko
Paper ID 264825	<b>pp 97-100</b>	Diabetes Type 2 as a Risk Factor of Neurodegeneration Development and Cognitive Impairment in db/db Mice	Tatyana A. Korolenko, Nina I. Dubrovina, Marina V. Ovsyukova, Natalya P. Bgatova, Chih-Li Lin, Alexander B. Pupyshev, Evgeniy L. Zavjalov, Elena V. Anufrienko
Paper ID 264847	<b>pp 101-105</b>	DNA Diagnosis in Case Series of Hereditary Retinal Dystrophy	Tatyana Vasilyeva, Vitaly Kadyshev, Andrey Marakhonov, Rena Zinchenko
Paper ID 264806	<b>pp 106-109</b>	Dual-agonist Optical Stimulation of Platelets Results in Increased and Reliable Activation	Darya Spiryova, Alexei Vorob'ev, Alexander E. Moskalensky
Paper ID 264828	<b>pp 110-113</b>	Dysbiosis in the Gut Microbiota of Adolescents with Obesity	Novikova Evgenia, Belkova Natalia, Pogodina Anna, Romanitsa Anastasia, Bairova Tatyana, Rychkova Lyubov
Paper ID 264835	<b>pp 114-117</b>	Effect of bispidine containing monoterpenoid moieties on physical performance in mice	Anastasiya A. Kotlyarova, Konstantin Yu. Ponomarev, Ekaterina A. Morozova, Dina V. Korchagina, Evgeniy V. Suslov, Alla V. Pavlova, Tatyana G. Tolstikova, Konstantin P. Volcho, Nariman F. Salakhutdinov
Paper ID 264827	<b>pp 118-121</b>	EVALUATION OF Sinorhizobium meliloti GENOMIC ISLANDS INSERTED INTO THE tRNA-Thr	Mariia Vladimirova, Alexey Afonin, Viktoria Muntyan, Boris Simarov, Marina Roumiantseva
Paper ID 264805	<b>pp 122-125</b>	Functional study of potential regulatory SNPs (rs590352, rs11542583, rs3829202, rs78317230, rs2072580, rs4796672)	Arina Degtyareva, Elena Leberfarb, Ilya Brusentsov, Tatiana Kuzina, Tatiana Merkulova
Paper ID 264831	<b>pp 126-130</b>	Genetic association of the rs4680 COMT and rs1044396 CHRNA4 with internet addiction in Siberian adolescents	Marina Smolnikova, Sergey Tereshchenko
Paper ID 264841	<b>pp 131-134</b>	Glucose variability in subjects with type 1 diabetes: the relationships with non-enzymatic glycation, albuminuria and renal function	Vadim V Klimontov, Julia F Semenova, Alla K. Vigel
Paper ID 264784	<b>pp 135-138</b>	GPU Based Composite Elements Discovery In Large DNA Datasets	Oleg Vishnevsky, Andrey Bocharnikov, Nikolay Kolchanov
Paper ID 265252	<b>pp 139-142</b>	Human Dermal Fibroblasts and Bone-Marrow Mesenchymal Stem Cells properties under Silver and Lithium Condition	Alexander Lykov, Alena Philippova
Paper ID 264809	<b>pp 143-146</b>	IL1B T-31C and VEGFA C+936T SNPs may be used as prognostic markers of rheumatoid arthritis treatment inefficiency	Vitaly Omelchenko, Elena Letyagina, Alla Shevchenko, Yuliya Kurochkina, Anna Akimova, Maxim Korolev
Paper ID 265257	<b>pp 147-150</b>	Influence of an aluminum-silicon sorbent on the viability of lactobacillus at different pH values of the incubation medium	Popova T.V., Andreeva I.S., Kotlyarova A.A.
Paper ID 264815	<b>pp 151-154</b>	Influence of Immobilized Subtilisins on Perfomance Indicators of Rat Heart in Experiment	German Baikalov, Roman Knyazev, Konstantin Ershov, Pavel Madonov
Paper ID 264822	<b>pp 155-158</b>	Investigation of the Allergenic Properties of the Interferon-Lambda 1, Pegylated by Electron-Beam Method	Nikolai Kikhtenko, Larisa Oleynik, Pavel Madonov, Evgeniy Sherstoboev
Paper ID 264816	<b>pp 159-163</b>	Investigation of the mutagenic properties of the Interferon-Lambda 1, Pegylated by Electron-Beam Method	Larisa A. Oleynik, Nikolai Kikhtenko, Pavel G. Madonov
Paper ID 264849	<b>pp 164-169</b>	Laser 3D-modeling of the image of the LYVE-1 marker expression in skin lymphatic vessels and prelymphatics in patients with urticaria pigmentosa	Svetlana Michurina, Natalia Svechnikova, Andrey Letyagin, Irina Ishchenko, Sergey Arkhipov, Anastasia Solovyova, Vladimir Konenkov
Paper ID 264820	<b>pp 170-173</b>	Lymph nodes morphology as predictor natural and premature aging	Olga Gorchakova, Vladimir Gorchakov, Georgy Demchenko

Paper ID 264789	<b>pp 174-179</b>	Mechanisms and functions of neurogenesis in the limbic system of adult animals	Tatyana Zapara, Alexander Romashchenko, Anna Proskura, Aleksander Ratushnyak, Svetlana Vechkapova
Paper ID 264790	<b>pp 180-184</b>	Meta-analysis of ChIP-seq Datasets Through the Rank Aggregation Approach	Semyon K. Kolmykov, Yury V. Kondrakhin, Ruslan N. Sharipov, Ivan S. Yevshin, Anna S. Ryabova, Fedor A. Kolpakov
Paper ID 264780	<b>pp 185-189</b>	Multi-class Brain Tumor Segmentation via Multi-sequences MRI Mixture Data Preprocessing	Andrey Letyagin, Sergey Golushko, Mikhail Amelin, Bair Tuchinov, Evgeniya Amelina, Nikolay Tolstokulakov, Evgeniy Pavlovskiy, Vladimir Groza
Paper ID 265599	<b>pp 190-194</b>	Mutational profile of Diffuse Large B-cell Lymphoma with central nervous system relapse: analysis of CBioPortal for Cancer Genomics database	Elena Voropaeva, Olga Beresina, Tatyana Pospelova, Viktoria Karpova, Vladimir Maximov, Elizaveta Melnikova, Anastasia Ivanova, Anna Gurageva, Maria Churkina
Paper ID 264814	<b>pp 195-198</b>	Negative-pressure wound therapy of purulent wounds in patients with diabetic foot syndrome	Oleg Shumkov, Mikhail Smagin, Rustam Khapaev
Paper ID 264808	<b>pp 199-202</b>	Opportunities of Trabecular Bone Score to Evaluate Ankylosing Spondilitis Structural Progression in Young Male Patients	Konstantin Kolpakov, Maxim Korolev, Elena Letyagina, Vitaly Omelchenko, Anna Akimova, Julia Kurochkina
Paper ID 264797	<b>pp 203-206</b>	Personification of the surgical treatment of pelvic organ prolapse in older women	Soluyanov M.Yu., Shumkov O.A., Smagin M.A., Nimaev V.V., Rakitin F.A., Ezenakh I.A., Gvozdev M.Yu.
Paper ID 264811	<b>pp 207-211</b>	Possibility to use divergent tasks for baseline alpha rhythm modulation in older adults	Evgeniya Privodnova, Nina Wolf, Victoriya Bilik, Ekaterina Merculova
Paper ID 264793	<b>pp 212-214</b>	Proteins and Cytokines of Blood Cells Supernatant and Histological Atypical Cells Markers in the Breast Diseases	Kristina Davletova, Albina Bernado, Sergey Arkhipov, Igor Zhurakovskiy, Nikolay Varaksin, Alexander Autenshlyus
Paper ID 264840	<b>pp 215-219</b>	Reconstruction of Dementia Gene Network Using Online Bioinformatics Tools	Sergey S. Kovalev, Oleg D. Fateev, Arthur I. Dergilev, Urana N. Kavai-ool, Yuriy L. Orlov
Paper ID 265265	<b>pp 220-223</b>	Relationships between obesity, body composition and continuous glucose monitoring parameters in subjects with type 2 diabetes on insulin therapy	Julia F. Semenova
Paper ID 265263	<b>pp 224-227</b>	ReLEx SMILE Method to Expansion and Create Scaffolds from Corneal Fibroblasts	Kristina Krasner, Alexander Lykov, Maria Surovtseva, Valeriy Chernykh, Irina Kim, Alexander Trunov, Olga Poveshchenko
Paper ID 264779	<b>pp 228-232</b>	Runtime Analysis of Non-Elitist Evolutionary Algorithms with Fitness-Proportionate Selection on Royal Road Functions	Anton Eremeev
Paper ID 264845	<b>pp 233-235</b>	Statistical problems of clusters of transcription factor binding sites in plant genomes	Arthur Dergilev, Yuriy L. Orlov
Paper ID 265260	<b>pp 236-239</b>	The combined approach to treatment of patients with chronic ischemia and diabetic foot syndrome	Mikhail Smagin, Oleg Shumkov, Rustam Khapaev, Mariya Surovtseva, Vadim Nimaev
Paper ID 265254	<b>pp 240-244</b>	The effect of round-the-clock illumination on blood hemoglobin level, body composition and endurance of C57Bl/6 mice	Irina Yurievna Ishchenko, Svetlana Viktorovna Michurina, Anna Stanislavovna Khotskina, Nikita Valeryevich Khotskin, Svetlana Olegovna Maslennikova, Evgenii Leonidovich Zavalov
Paper ID 265256	<b>pp 245-249</b>	The Effect of the Melatonin-containing Drug on the Histological Structure of the Organs of the Immune System of Mice under Round-the-Clock Illumination	Shurlygina A.V., Serykh A.E., Michurina S.V., Rachkovsky E.E.
Paper ID 264826	<b>pp 250-252</b>	The elements of CRISPR-Cas-like system in genome of <i>Arabidopsis thaliana</i> : possible origin and some evidence on their functionality	Yuri Mikhailovich Konstantinov, Ivan Sergeevich Petrushin, Igor Vladimirovich Gorbenko
Paper ID 265264	<b>pp 253-256</b>	The prevalence and risk factors of carotid artery stenosis in type 2 diabetic patients	Elena A. Koroleva, Rustam S. Khapaev
Paper ID 265258	<b>pp 257-260</b>	The prevalence and the risk factors for low-energy fractures in women with type 2 diabetes	Olga Fazullina
Paper ID 264795	<b>pp 261-264</b>	The structure of the cytokine gene network in uterine fibroids	Viktor Prokofiev, Alla Shevchenko, Vladimir Konenkov, Tatyana Dergacheva, Elena Koroleva, Alexey Novikov

		Irina Siutkina, Khabarov Dmitriy, Smagin Alexandr, Bulichev Pavel, Demura Alexander, Inyoshina Alisa
Paper ID 264794	pp 265-268	The tendency to hypercoagulation in the perioperative period of uterine artery embolization
Paper ID 264850	pp 269-272	The visualization of fluid content during intestinal MRI
Paper ID 264837	pp 273-276	Thyroid dysfunction is associated with osteoporosis in patients with Hodgkin's lymphoma
Paper ID 265253	pp 277-280	Toxicity of Fucoxanthin on Balb/c Mice Splenocytes and Thymocytes
Paper ID 265262	pp 281-285	Cytotoxicity of $\gamma$ -Aluminum-silica-single-wall Carbon Nanotubes Carriers on Mesenchymal Stem Cells and Endothelial Cell Line EA.hy 926
Paper ID 265259	pp 286-289	Cytotoxicity of Titanium Oxynitride Obtained by Reactive Magnetron Sputtered on Endothelial Cell Line EA.hy 926
Paper ID 264844	pp 290-292	Cytokines of the IL-6 family in the modulation of carbohydrate and lipid metabolism in patients with metabolic syndrome
Paper ID 264818	pp 293-296	Transcriptome (RNA-seq) analysis of human salivary gland cells with exogenous expression of human pancreas beta cells transcription factors PDX1, MAFA, NGN3
Paper ID 264842	pp 297-300	Transfer of Genetic Algorithms to Directed Evolution of Macromolecules: Tests in Silico