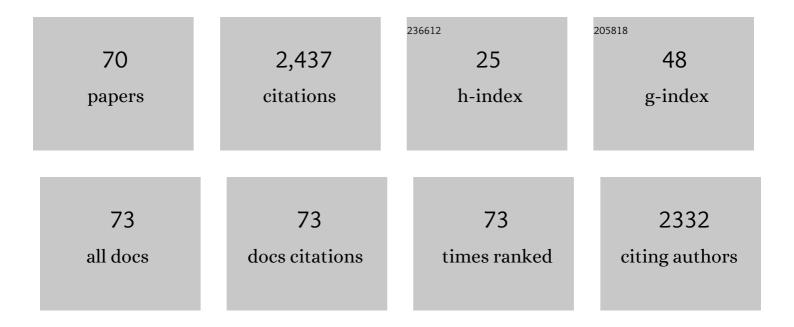
## **Borisov Nikolay**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Pathway Based Analysis of Mutation Data Is Efficient for Scoring Target Cancer Drugs. Frontiers in Pharmacology, 2019, 10, 1.	1.6	303
2	Systemsâ€level interactions between insulin–EGF networks amplify mitogenic signaling. Molecular Systems Biology, 2009, 5, 256.	3.2	205
3	Scaffolding Protein Grb2-associated Binder 1 Sustains Epidermal Growth Factor-induced Mitogenic and Survival Signaling by Multiple Positive Feedback Loops*. Journal of Biological Chemistry, 2006, 281, 19925-19938.	1.6	153
4	In silico Pathway Activation Network Decomposition Analysis (iPANDA) as a method for biomarker development. Nature Communications, 2016, 7, 13427.	5.8	126
5	Oncofinder, a new method for the analysis of intracellular signaling pathway activation using transcriptomic data. Frontiers in Genetics, 2014, 5, 55.	1.1	122
6	Molecular pathway activation – New type of biomarkers for tumor morphology and personalized selection of target drugs. Seminars in Cancer Biology, 2018, 53, 110-124.	4.3	101
7	Data aggregation at the level of molecular pathways improves stability of experimental transcriptomic and proteomic data. Cell Cycle, 2017, 16, 1810-1823.	1.3	96
8	Signaling through Receptors and Scaffolds: Independent Interactions Reduce Combinatorial Complexity. Biophysical Journal, 2005, 89, 951-966.	0.2	91
9	Signaling pathways activation profiles make better markers of cancer than expression of individual genes. Oncotarget, 2014, 5, 10198-10205.	0.8	91
10	Silencing AML1-ETO gene expression leads to simultaneous activation of both pro-apoptotic and proliferation signaling. Leukemia, 2014, 28, 2222-2228.	3.3	77
11	Bioinformatics Meets Biomedicine: OncoFinder, a Quantitative Approach for Interrogating Molecular Pathways Using Gene Expression Data. Methods in Molecular Biology, 2017, 1613, 53-83.	0.4	62
12	MiRImpact, a new bioinformatic method using complete microRNA expression profiles to assess their overall influence on the activity of intracellular molecular pathways. Cell Cycle, 2016, 15, 689-698.	1.3	58
13	Mathematical Justification of Expression-Based Pathway Activation Scoring (PAS). Methods in Molecular Biology, 2017, 1613, 31-51.	0.4	56
14	In search for geroprotectors: in silico screening and in vitro validation of signalome-level mimetics of young healthy state. Aging, 2016, 8, 2127-2152.	1.4	56
15	A method of gene expression data transfer from cell lines to cancer patients for machine-learning prediction of drug efficiency. Cell Cycle, 2018, 17, 486-491.	1.3	55
16	A method for predicting target drug efficiency in cancer based on the analysis of signaling pathway activation. Oncotarget, 2015, 6, 29347-29356.	0.8	52
17	Signaling pathway cloud regulation for in silico screening and ranking of the potential geroprotective drugs. Frontiers in Genetics, 2014, 5, 49.	1.1	47
18	Domain-oriented reduction of rule-based network models. IET Systems Biology, 2008, 2, 342-351.	0.8	45

BORISOV NIKOLAY

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19	Novel robust biomarkers for human bladder cancer based on activation of intracellular signaling pathways. Oncotarget, 2014, 5, 9022-9032.	0.8	43
20	Quantitation of Molecular Pathway Activation Using RNA Sequencing Data. Methods in Molecular Biology, 2020, 2063, 189-206.	0.4	40
21	Profiling of Human Molecular Pathways Affected by Retrotransposons at the Level of Regulation by Transcription Factor Proteins. Frontiers in Immunology, 2018, 9, 30.	2.2	38
22	Trading the micro-world of combinatorial complexity for the macro-world of protein interaction domains. BioSystems, 2006, 83, 152-166.	0.9	36
23	Molecular pathway activation features linked with transition from normal skin to primary and metastatic melanomas in human. Oncotarget, 2016, 7, 656-670.	0.8	32
24	Shambhala: a platform-agnostic data harmonizer for gene expression data. BMC Bioinformatics, 2019, 20, 66.	1.2	31
25	Algorithmic Annotation of Functional Roles for Components of 3,044 Human Molecular Pathways. Frontiers in Genetics, 2021, 12, 617059.	1.1	30
26	A NEW GRAPHICAL USER INTERFACE FOR FAST CONSTRUCTION OF COMPUTATION PHANTOMS AND MCNP CALCULATIONS: APPLICATION TO CALIBRATION OF IN VIVO MEASUREMENT SYSTEMS. Health Physics, 2002, 83, 272-279.	0.3	24
27	Combinatorial high-throughput experimental and bioinformatic approach identifies molecular pathways linked with the sensitivity to anticancer target drugs. Oncotarget, 2015, 6, 27227-27238.	0.8	24
28	Application of Monte Carlo calculations to calibration of anthropomorphic phantoms used for activity assessment of actinides in lungs. Radiation Protection Dosimetry, 2003, 105, 403-408.	0.4	21
29	New Paradigm of Machine Learning (ML) in Personalized Oncology: Data Trimming for Squeezing More Biomarkers From Clinical Datasets. Frontiers in Oncology, 2019, 9, 658.	1.3	21
30	Pathway Instability Is an Effective New Mutation-Based Type of Cancer Biomarkers. Frontiers in Oncology, 2018, 8, 658.	1.3	21
31	Oncobox Method for Scoring Efficiencies of Anticancer Drugs Based on Gene Expression Data. Methods in Molecular Biology, 2020, 2063, 235-255.	0.4	21
32	FLOating-Window Projective Separator (FloWPS): A Data Trimming Tool for Support Vector Machines (SVM) to Improve Robustness of the Classifier. Frontiers in Genetics, 2018, 9, 717.	1.1	19
33	Cancer gene expression profiles associated with clinical outcomes to chemotherapy treatments. BMC Medical Genomics, 2020, 13, 111.	0.7	19
34	Flexible Data Trimming Improves Performance of Global Machine Learning Methods in Omics-Based Personalized Oncology. International Journal of Molecular Sciences, 2020, 21, 713.	1.8	19
35	Disparity between Inter-Patient Molecular Heterogeneity and Repertoires of Target Drugs Used for Different Types of Cancer in Clinical Oncology. International Journal of Molecular Sciences, 2020, 21, 1580.	1.8	17
36	The Role of the Metabolism of Zinc and Manganese lons in Human Cancerogenesis. Biomedicines, 2022, 10, 1072.	1.4	17

BORISOV NIKOLAY

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37	Application of new imaging and calculation techniques to activity and dose assessment in the case of a 106Ru contaminated wound. Radiation Protection Dosimetry, 2003, 105, 219-223.	0.4	16
38	Machine Learning Applicability for Classification of PAD/VCD Chemotherapy Response Using 53 Multiple Myeloma RNA Sequencing Profiles. Frontiers in Oncology, 2021, 11, 652063.	1.3	16
39	OncoboxPD: human 51 672 molecular pathways database with tools for activity calculating and visualization. Computational and Structural Biotechnology Journal, 2022, 20, 2280-2291.	1.9	16
40	Activation of intracellular signaling pathways as a new type of biomarkers for selection of target anticancer drugs Journal of Clinical Oncology, 2017, 35, e23142-e23142.	0.8	14
41	High-Throughput Mutation Data Now Complement Transcriptomic Profiling: Advances in Molecular Pathway Activation Analysis Approach in Cancer Biology. Cancer Informatics, 2019, 18, 117693511983884.	0.9	13
42	Using proteomic and transcriptomic data to assess activation of intracellular molecular pathways. Advances in Protein Chemistry and Structural Biology, 2021, 127, 1-53.	1.0	13
43	Early stage of cytomegalovirus infection suppresses host microRNA expression regulation in human fibroblasts. Cell Cycle, 2016, 15, 3378-3389.	1.3	12
44	Molecular Pathway Analysis of Mutation Data for Biomarkers Discovery and Scoring of Target Cancer Drugs. Methods in Molecular Biology, 2020, 2063, 207-234.	0.4	8
45	Development of voxelised numerical phantoms using MCNP Monte Carlo code: Application toin vivomeasurement. Radioprotection, 2001, 36, 77-86.	0.5	7
46	Individual Drug Treatment Prediction in Oncology Based on Machine Learning Using Cell Culture Gene Expression Data. , 2017, , .		7
47	Gene Expression-Based Signature Can Predict Sorafenib Response in Kidney Cancer. Frontiers in Molecular Biosciences, 2022, 9, 753318.	1.6	7
48	Prediction of Drug Efficiency by Transferring Gene Expression Data from Cell Lines to Cancer Patients. Lecture Notes in Computer Science, 2018, , 201-212.	1.0	6
49	FNC: An Advanced Anticancer Therapeutic or Just an Underdog?. Frontiers in Oncology, 2022, 12, 820647.	1.3	6
50	Adjoint Importance Monte Carlo Simulation for Gamma Ray Deep Penetration Problem. Monte Carlo Methods and Applications, 1997, 3, .	0.3	5
51	Better Agreement of Human Transcriptomic and Proteomic Cancer Expression Data at the Molecular Pathway Activation Level. International Journal of Molecular Sciences, 2022, 23, 2611.	1.8	4
52	Shambhalaâ€2: A Protocol for Uniformly Shaped Harmonization of Gene Expression Profiles of Various Formats. Current Protocols, 2022, 2, .	1.3	4
53	Generalized Particle Concept for Adjoint Monte Carlo Calculations of Coupled Gamma-Ray–Electron–Positron Transport. Nuclear Science and Engineering, 2005, 150, 284-298.	0.5	3
54	New Method Based on Monte Carlo Calculation and Voxelized Phantoms for Realistic Internal Dosimetry: Application to a Complex and Old Actinide Contamination. Nuclear Technology, 2009, 168, 824-831.	0.7	3

BORISOV NIKOLAY

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55	Adjoint Monte Carlo Calculations of Pulse-Height-Spectrum. Monte Carlo Methods and Applications, 1998, 4, .	0.3	2
56	System, Method and Software for Calculation of a Cannabis Drug Efficiency Index for the Reduction of Inflammation. International Journal of Molecular Sciences, 2021, 22, 388.	1.8	2
57	Generalized Particle Concept for Adjoint Monte Carlo Calculations of Coupled Gamma Ray — Electron Transport. Monte Carlo Methods and Applications, 1998, 4, .	0.3	1
58	Model for estimating the angular distribution of gamma-ray flux of an isotropic point source in an infinite geometry. Atomic Energy, 1998, 85, 761-764.	0.1	0
59	Simulation of singular collision kernels in adjoint random walk. Atomic Energy, 1999, 86, 177-182.	0.1	Ο
60	A performance criterion for value simulation based on contributon transport theory. Atomic Energy, 1999, 86, 105-110.	0.1	0
61	Modern internal-irradiation dosimetry. Atomic Energy, 2004, 97, 713-719.	0.1	Ο
62	Check of the Application of the Monte Carlo Method for Spectrometry of Human Body Radiation in an Experiment on Large Animals. Atomic Energy, 2005, 99, 503-510.	0.1	0
63	Prevalence Of Hypoactive Sexual Desire Disorder in us Women 30 to 70 Years Old Based on a Random-Digit Dial Survey. American Journal of Epidemiology, 2006, 163, S149-S49.	1.6	Ο
64	Semi-Empirical Model of X-ray Tube Facility. , 2010, , .		0
65	1518 poster SYSTEMS BIOLOGY OF MITOGENIC SIGNALING: A MOLECULAR BASIS FOR ONCOLOGY AND RADIOLOGY. Radiotherapy and Oncology, 2011, 99, S565.	0.3	Ο
66	Adjoint Monte Carlo Simulation of Fixed-Energy Secondary Radiation. , 2001, , 181-186.		0
67	Importance Biasing Quality Criterion Based on Contribution Response Theory. , 2001, , 193-198.		Ο
68	The Method for Analysis of Expression Data Homogeneity Based On the Student Test. Mathematical Biology and Bioinformatics, 2018, 13, 50-67.	0.1	0
69	Problems of creating an online scientific journal with multimedia content. , 2019, , .		0
70	Flexible Data Trimming for Different Machine Learning Methods in Omics-Based Personalized Oncology. Lecture Notes in Computer Science, 2019, , 62-71.	1.0	0