Zlatko Trajanoski

List of Publications by Year
in descending order

114 papers	30,986 citations	43973 48 h-index	24179 110 g-index
123 all docs	123 docs citations	123 times ranked	44379 citing authors

#	Article	IF	Citations
1	Type, Density, and Location of Immune Cells Within Human Colorectal Tumors Predict Clinical Outcome. Science, 2006, 313, 1960-1964.	6.0	5,356
2	ClueGO: a Cytoscape plug-in to decipher functionally grouped gene ontology and pathway annotation networks. Bioinformatics, 2009, 25, 1091-1093.	1.8	5,348
3	Spatiotemporal Dynamics of Intratumoral Immune Cells Reveal the Immune Landscape in Human Cancer. Immunity, 2013, 39, 782-795.	6.6	2,983
4	Pan-cancer Immunogenomic Analyses Reveal Genotype-Immunophenotype Relationships and Predictors of Response to Checkpoint Blockade. Cell Reports, 2017, 18, 248-262.	2.9	2,953
5	Effector Memory T Cells, Early Metastasis, and Survival in Colorectal Cancer. New England Journal of Medicine, 2005, 353, 2654-2666.	13.9	1,860
6	Genesis: cluster analysis of microarray data. Bioinformatics, 2002, 18, 207-208.	1.8	1,684
7	Histopathologic-Based Prognostic Factors of Colorectal Cancers Are Associated With the State of the Local Immune Reaction. Journal of Clinical Oncology, 2011, 29, 610-618.	0.8	864
8	In Situ Cytotoxic and Memory T Cells Predict Outcome in Patients With Early-Stage Colorectal Cancer. Journal of Clinical Oncology, 2009, 27, 5944-5951.	0.8	822
9	Integrative Analyses of Colorectal Cancer Show Immunoscore Is a Stronger Predictor of Patient Survival Than Microsatellite Instability. Immunity, 2016, 44, 698-711.	6.6	814
10	Molecular and pharmacological modulators of the tumor immune contexture revealed by deconvolution of RNA-seq data. Genome Medicine, 2019, 11, 34.	3.6	732
11	Impaired Glucose Transport as a Cause of Decreased Insulin-Stimulated Muscle Glycogen Synthesis in Type 2 Diabetes. New England Journal of Medicine, 1999, 341, 240-246.	13.9	562
12	A survey of tools for variant analysis of next-generation genome sequencing data. Briefings in Bioinformatics, 2014, 15, 256-278.	3.2	480
13	Characterization of the immunophenotypes and antigenomes of colorectal cancers reveals distinct tumor escape mechanisms and novel targets for immunotherapy. Genome Biology, 2015, 16, 64.	3.8	433
14	miRâ€17, miRâ€19b, miRâ€20a, and miRâ€106a are downâ€regulated in human aging. Aging Cell, 2010, 9, 291-296.	6.0	338
15	Cardiopulmonary recovery after COVID-19: an observational prospective multicentre trial. European Respiratory Journal, 2021, 57, 2003481.	3.1	313
16	Quantifying tumor-infiltrating immune cells from transcriptomics data. Cancer Immunology, Immunotherapy, 2018, 67, 1031-1040.	2.0	292
17	Biomolecular Network Reconstruction Identifies T-Cell Homing Factors Associated With Survival in Colorectal Cancer. Gastroenterology, 2010, 138, 1429-1440.	0.6	280
18	Coordination of Intratumoral Immune Reaction and Human Colorectal Cancer Recurrence. Cancer Research, 2009, 69, 2685-2693.	0.4	262

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19	Computational genomics tools for dissecting tumour–immune cell interactions. Nature Reviews Genetics, 2016, 17, 441-458.	7.7	233
20	Mitochondrial DNA drives abscopal responses to radiation that are inhibited by autophagy. Nature Immunology, 2020, 21, 1160-1171.	7.0	214
21	Targeting immune checkpoints potentiates immunoediting and changes the dynamics of tumor evolution. Nature Communications, 2018, 9, 32.	5.8	193
22	Neoantigens Generated by Individual Mutations and Their Role in Cancer Immunity and Immunotherapy. Frontiers in Immunology, 2017, 8, 1679.	2.2	171
23	Oxytocin Controls Differentiation of Human Mesenchymal Stem Cells and Reverses Osteoporosis. Stem Cells, 2008, 26, 2399-2407.	1.4	170
24	Activin A Plays a Critical Role in Proliferation and Differentiation of Human Adipose Progenitors. Diabetes, 2010, 59, 2513-2521.	0.3	140
25	Next-generation computational tools for interrogating cancer immunity. Nature Reviews Genetics, 2019, 20, 724-746.	7.7	131
26	Intratumoral HPV16-Specific T Cells Constitute a Type I–Oriented Tumor Microenvironment to Improve Survival in HPV16-Driven Oropharyngeal Cancer. Clinical Cancer Research, 2018, 24, 634-647.	3.2	128
27	Identification of differential and functionally active miRNAs in both anaplastic lymphoma kinase (ALK)$^{+}$ and ALK$^{–}$ anaplastic large-cell lymphoma. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16228-16233.	3.3	108
28	Thin-Film Microbiosensors for Glucose–Lactate Monitoring. Analytical Chemistry, 1996, 68, 3173-3179.	3.2	103
29	The coordinated action of the MVB pathway and autophagy ensures cell survival during starvation. ELife, 2015, 4, e07736.	2.8	102
30	Comparative transcriptomics of human multipotent stem cells during adipogenesis and osteoblastogenesis. BMC Genomics, 2008, 9, 340.	1.2	91
31	Scirpy: a Scanpy extension for analyzing single-cell T-cell receptor-sequencing data. Bioinformatics, 2020, 36, 4817-4818.	1.8	88
32	CD39 Identifies the CD4+ Tumor-Specific T-cell Population in Human Cancer. Cancer Immunology Research, 2020, 8, 1311-1321.	1.6	84
33	Transcription factories. Frontiers in Genetics, 2012, 3, 221.	1.1	83
34	Proteomic analysis of human cataract aqueous humour: Comparison of one-dimensional gel LCMS with two-dimensional LCMS of unlabelled and iTRAQ®-labelled specimens. Journal of Proteomics, 2011, 74, 151-166.	1.2	79
35	miR-22 and miR-29a Are Members of the Androgen Receptor Cistrome Modulating LAMC1 and Mcl-1 in Prostate Cancer. Molecular Endocrinology, 2015, 29, 1037-1054.	3.7	69
36	TIminer: NGS data mining pipeline for cancer immunology and immunotherapy. Bioinformatics, 2017, 33, 3140-3141.	1.8	68

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37	Mutational and Antigenic Landscape in Tumor Progression and Cancer Immunotherapy. Trends in Cell Biology, 2019, 29, 396-416.	3.6	66
38	Identification of small gains and losses in single cells after whole genome amplification on tiling oligo arrays. Nucleic Acids Research, 2009, 37, e105-e105.	6.5	65
39	High STAT1 mRNA levels but not its tyrosine phosphorylation are associated with macrophage infiltration and bad prognosis in breast cancer. BMC Cancer, 2014, 14, 257.	1.1	65
40	Loss of adipose triglyceride lipase is associated with human cancer and induces mouse pulmonary neoplasia. Oncotarget, 2016, 7, 33832-33840.	0.8	63
41	New strategies for cancer immunotherapy: targeting regulatory T cells. Genome Medicine, 2017, 9, 10.	3.6	62
42	Molecular processes during fat cell development revealed by gene expression profiling and functional annotation. Genome Biology, 2005, 6, R108.	13.9	61
43	Guadecitabine Plus Ipilimumab in Unresectable Melanoma: The NIBIT-M4 Clinical Trial. Clinical Cancer Research, 2019, 25, 7351-7362.	3.2	61
44	Mutations in ROGDI Cause Kohlschütter-Tönz Syndrome. American Journal of Human Genetics, 2012, 90, 701-707.	2.6	58
45	Identification of evolutionarily conserved genetic regulators of cellular aging. Aging Cell, 2010, 9, 1084-1097.	3.0	57
46	QPCR: Application for real-time PCR data management and analysis. BMC Bioinformatics, 2009, 10, 268.	1.2	55
47	Generic Features of Tertiary Chromatin Structure as Detected in Natural Chromosomes. Molecular and Cellular Biology, 2004, 24, 9359-9370.	1.1	52
48	MARS: microarray analysis, retrieval, and storage system. BMC Bioinformatics, 2005, 6, 101.	1.2	51
49	Nuclear receptor NR2F6 inhibition potentiates responses to PD-L1/PD-1 cancer immune checkpoint blockade. Nature Communications, 2018, 9, 1538.	5.8	49
50	Hypochlorite modification of sphingomyelin generates chlorinated lipid species that induce apoptosis and proteome alterations in dopaminergic PC12 neurons in vitro. Free Radical Biology and Medicine, 2010, 48, 1588-1600.	1.3	47
51	Evolution of genomic instability in diethylnitrosamine-induced hepatocarcinogenesis in mice. Hepatology, 2011, 53, 895-904.	3.6	47
52	YPL.db: the Yeast Protein Localization database. Nucleic Acids Research, 2002, 30, 80-83.	6.5	43
53	The phosphatidylethanolamine level of yeast mitochondria is affected by the mitochondrial components Oxa1p and Yme1p. FEBS Journal, 2007, 274, 6180-6190.	2.2	43
54	Simulation studies on neural predictive control of glucose using the subcutaneous route. Computer Methods and Programs in Biomedicine, 1998, 56, 133-139.	2.6	40

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55	Bioinformatics for cancer immunology and immunotherapy. Cancer Immunology, Immunotherapy, 2012, 61, 1885-1903.	2.0	40
56	Co-expressed genes prepositioned in spatial neighborhoods stochastically associate with SC35 speckles and RNA polymerase II factories. Cellular and Molecular Life Sciences, 2014, 71, 1741-1759.	2.4	40
57	Reconstruction of gene association network reveals a transmembrane protein required for adipogenesis and targeted by PPARÎ³. Cellular and Molecular Life Sciences, 2010, 67, 4049-4064.	2.4	38
58	SIMPLEX: Cloud-Enabled Pipeline for the Comprehensive Analysis of Exome Sequencing Data. PLoS ONE, 2012, 7, e41948.	1.1	38
59	MASPECTRAS: a platform for management and analysis of proteomics LC-MS/MS data. BMC Bioinformatics, 2007, 8, 197.	1.2	37
60	Differential transcriptional modulation of biological processes in adipocyte triglyceride lipase and hormone-sensitive lipase-deficient mice. Genomics, 2008, 92, 26-32.	1.3	36
61	Novel Insights into Adipogenesis from Omics Data. Current Medicinal Chemistry, 2009, 16, 2952-2964.	1.2	35
62	Adoptive T Cell Therapy: New Avenues Leading to Safe Targets and Powerful Allies. Trends in Immunology, 2018, 39, 921-936.	2.9	35
63	Somatically mutated tumor antigens in the quest for a more efficacious patient-oriented immunotherapy of cancer. Cancer Immunology, Immunotherapy, 2015, 64, 99-104.	2.0	32
64	NeoFuse: predicting fusion neoantigens from RNA sequencing data. Bioinformatics, 2020, 36, 2260-2261.	1.8	32
65	YPL.db2: the yeast protein localization database, version 2.0. Yeast, 2005, 22, 213-218.	0.8	31
66	Stathmin-like 2, a developmentally-associated neuronal marker, is expressed and modulated during osteogenesis of human mesenchymal stem cells. Biochemical and Biophysical Research Communications, 2008, 374, 64-68.	1.0	31
67	A quantization method based on threshold optimization for microarray short time series. BMC Bioinformatics, 2005, 6, S11.	1.2	30
68	New trends in bioinformatics: from genome sequence to personalized medicine. Experimental Gerontology, 2003, 38, 1031-1036.	1.2	29
69	Organization of chromatin and histone modifications at a transcription site. Journal of Cell Biology, 2007, 177, 957-967.	2.3	29
70	A Variant of a Killer Cell Immunoglobulin-like Receptor Is Associated with Resistance to PD-1 Blockade in Lung Cancer. Clinical Cancer Research, 2019, 25, 3026-3034.	3.2	29
71	Artificial intelligence and cancer. Nature Cancer, 2020, 1, 149-152.	5.7	26
72	IDO1+ Paneth cells promote immune escape of colorectal cancer. Communications Biology, 2020, 3, 252.	2.0	26

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73	Nr4a1 Is Required for Fasting-Induced Down-Regulation of PparÎ³2 in White Adipose Tissue. Molecular Endocrinology, 2013, 27, 135-149.	3.7	25
74	The Role of Intramyocellular Lipids during Hypoglycemia in Patients with Intensively Treated Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 5559-5565.	1.8	24
75	Arsenic trioxide induces apoptosis preferentially in B-CLL cells of patients with unfavourable prognostic factors including del17p13. Journal of Molecular Medicine, 2008, 86, 541-552.	1.7	24
76	Skin dendritic cells in melanoma are key for successful checkpoint blockade therapy. , 2021, 9, e000832.		23
77	Immediate T-Helper 17 Polarization Upon Triggering CD11b/c on HIV-Exposed Dendritic Cells. Journal of Infectious Diseases, 2015, 212, 44-56.	1.9	22
78	<scp>NKG2A</scp> is a late immune checkpoint on <scp>CD8</scp> T cells and marks repeated stimulation and cell division. International Journal of Cancer, 2022, 150, 688-704.	2.3	22
79	Differential cytokine sensitivities of STAT5-dependent enhancers rely onStat5autoregulation. Nucleic Acids Research, 2016, 44, gkw844.	6.5	21
80	Tumour-infiltrating lymphocytes (TILs) and BRCA-like status in stage III breast cancer patients randomised to adjuvant intensified platinum-based chemotherapy versus conventional chemotherapy. European Journal of Cancer, 2020, 127, 240-250.	1.3	21
81	MASPECTRAS 2: An integration and analysis platform for proteomic data. Proteomics, 2010, 10, 2719-2722.	1.3	20
82	microRNAs in acute myeloid leukemia: Expression patterns, correlations with genetic and clinical parameters, and prognostic significance. Genes Chromosomes and Cancer, 2010, 49, 193-203.	1.5	18
83	LPL-mediated lipolysis of VLDL induces an upregulation of AU-rich mRNAs and an activation of HuR in endothelial cells. Atherosclerosis, 2006, 189, 310-317.	0.4	17
84	nextNEOpi: a comprehensive pipeline for computational neoantigen prediction. Bioinformatics, 2022, 38, 1131-1132.	1.8	17
85	CD161 expression and regulation defines rapidly responding effector CD4+ T cells associated with improved survival in HPV16-associated tumors. , 2022, 10, e003995.		16
86	Comprehensive Analysis of R-Spondin Fusions and <i>RNF43</i> Mutations Implicate Novel Therapeutic Options in Colorectal Cancer. Clinical Cancer Research, 2022, 28, 1863-1870.	3.2	16
87	Portable device for continuous fractionated blood sampling and continuous ex vivo blood glucose monitoring. Biosensors and Bioelectronics, 1996, 11, 479-487.	5.3	15
88	Arxes: retrotransposed genes required for adipogenesis. Nucleic Acids Research, 2011, 39, 3224-3239.	6.5	15
89	Epithelial X-Box Binding Protein 1 Coordinates Tumor Protein p53-Driven DNA Damage Responses and Suppression of Intestinal Carcinogenesis. Gastroenterology, 2022, 162, 223-237.e11.	0.6	15
90	Tumor-specific T cells support chemokine-driven spatial organization of intratumoral immune microaggregates needed for long survival. , 2022, 10, e004346.		15

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91	Mathematical models for translational and clinical oncology. Journal of Clinical Bioinformatics, 2013, 3, 23.	1.2	14
92	MYC-Mediated Ribosomal Gene Expression Sensitizes Enzalutamide-resistant Prostate Cancer Cells to EP300/CREBBP Inhibitors. American Journal of Pathology, 2021, 191, 1094-1107.	1.9	14
93	Computational cancer neoantigen prediction: current status and recent advances. Immuno-Oncology Technology, 2021, 12, 100052.	0.2	14
94	Information technology solutions for integration of biomolecular and clinical data in the identification of new cancer biomarkers and targets for therapy. , 2010, 128, 488-498.		13
95	Serum Autoantibodies in Chronic Prostate Inflammation in Prostate Cancer Patients. PLoS ONE, 2016, 11, e0147739.	1.1	13
96	3D-cultivation of NSCLC cell lines induce gene expression alterations of key cancer-associated pathways and mimic *in-vivo* conditions. Oncotarget, 2017, 8, 112647-112661.	0.8	13
97	Interleukin-11 drives human and mouse alcohol-related liver disease. Gut, 2023, 72, 168-179.	6.1	13
98	Adipose Triglyceride Lipase and Hormone-Sensitive Lipase Are Involved in Fat Loss in JunB-Deficient Mice. Endocrinology, 2011, 152, 2678-2689.	1.4	12
99	The colorectal cancer immune paradox revisited. OncoImmunology, 2016, 5, e1078058.	2.1	12
100	Advancing cancer immunotherapy: a vision for the field. Genome Medicine, 2019, 11, 51.	3.6	12
101	Impact of the Chromatin Remodeling Factor CHD1 on Gut Microbiome Composition of Drosophila melanogaster. PLoS ONE, 2016, 11, e0153476.	1.1	11
102	Transcriptional regulatory program in wild-type and retinoblastoma gene-deficient mouse embryonic fibroblasts during adipocyte differentiation. BMC Research Notes, 2011, 4, 157.	0.6	10
103	Personalized Oncology Suite: integrating next-generation sequencing data and whole-slide bioimages. BMC Bioinformatics, 2014, 15, 306.	1.2	10
104	SeqBench: Integrated solution for the management and analysis of exome sequencing data. BMC Research Notes, 2014, 7, 43.	0.6	10
105	EMT-related transcription factors and protein stabilization mechanisms involvement in cadherin switch of head and neck squamous cell carcinoma. Experimental Cell Research, 2022, 414, 113084.	1.2	9
106	Information management systems for pharmacogenomics. Pharmacogenomics, 2002, 3, 651-667.	0.6	7
107	A new platform linking chromosomal and sequence information. Chromosome Research, 2007, 15, 327-39.	1.0	7
108	LAMTOR/Ragulator regulates lipid metabolism in macrophages and foam cell differentiation. FEBS Letters, 2020, 594, 31-42.	1.3	7

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109	Microbial Colonization in Adulthood Shapes the Intestinal Macrophage Compartment. Journal of Crohn's and Colitis, 2019, 13, 1173-1185.	0.6	5
110	TIS7 induces transcriptional cascade of methylosome components required for muscle differentiation. BMC Biology, 2016, 14, 95.	1.7	4
111	A vision of immuno-oncology: the Siena think tank of the Italian network for tumor biotherapy (NIBIT) foundation. Journal of Experimental and Clinical Cancer Research, 2021, 40, 240.	3.5	3
112	Indoleamine 2,3-Dioxygenase (IDO1) Levels and Activity Are Increased in Early Chronic Phase Chronic Myelogenous Leukemia (CML-CP) and Correlate with Molecular Response to Nilotinib Therapy. Blood, 2016, 128, 1912-1912.	0.6	0
113	Safety and immunobiological activity of guadecitabine sequenced with ipilimumab in metastatic melanoma patients: The phase Ib NIBIT-M4 study.. Journal of Clinical Oncology, 2019, 37, 2549-2549.	0.8	0
114	35â€¦Chemokine-driven spatial organization of immune cell microaggregates marks oropharyngeal squamous cell carcinomas containing tumor-specific T cells. , 2021, 9, A41-A41.		0