

Afshin Beheshti

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

2,230
citations

279487

23
h-index

253896

43
g-index

90
all docs

90
docs citations

90
times ranked

3285
citing authors

#	ARTICLE	IF	CITATIONS
1	Classical Mathematical Models for Description and Prediction of Experimental Tumor Growth. PLoS Computational Biology, 2014, 10, e1003800.	1.5	419
2	Fundamental Biological Features of Spaceflight: Advancing the Field to Enable Deep-Space Exploration. Cell, 2020, 183, 1162-1184.	13.5	185
3	Paradoxical Dependencies of Tumor Dormancy and Progression on Basic Cell Kinetics. Cancer Research, 2009, 69, 8814-8821.	0.4	175
4	Comprehensive Multi-omics Analysis Reveals Mitochondrial Stress as a Central Biological Hub for Spaceflight Impact. Cell, 2020, 183, 1185-1201.e20.	13.5	161
5	Intercellular Communication by Exchange of Cytoplasmic Material via Tunneling Nano-Tube Like Structures in Primary Human Renal Epithelial Cells. PLoS ONE, 2011, 6, e21283.	1.1	94
6	Vive la radiorésistance!: converging research in radiobiology and biogerontology to enhance human radioresistance for deep space exploration and colonization. Oncotarget, 2018, 9, 14692-14722.	0.8	62
7	Fatty Acid Synthase induced S6Kinase facilitates USP11-eIF4B complex formation for sustained oncogenic translation in DLBCL. Nature Communications, 2018, 9, 829.	5.8	60
8	Consensus Micro RNAs Governing the Switch of Dormant Tumors to the Fast-Growing Angiogenic Phenotype. PLoS ONE, 2012, 7, e44001.	1.1	53
9	Role of miR-2392 in driving SARS-CoV-2 infection. Cell Reports, 2021, 37, 109839.	2.9	52
10	Multi-omics analysis of multiple missions to space reveal a theme of lipid dysregulation in mouse liver. Scientific Reports, 2019, 9, 19195.	1.6	46
11	Transcriptional changes induced by the tumor dormancy-associated microRNA-190. Transcription, 2013, 4, 177-191.	1.7	45
12	DNA electrophoresis in agarose gels: A simple relation describing the length dependence of mobility. Electrophoresis, 2002, 23, 15.	1.3	39
13	Dynamic Analysis of Human Natural Killer Cell Response at Single-Cell Resolution in B-Cell Non-Hodgkin Lymphoma. Frontiers in Immunology, 2017, 8, 1736.	2.2	39
14	SARS-CoV-2 genomic diversity and the implications for qRT-PCR diagnostics and transmission. Genome Research, 2021, 31, 635-644.	2.4	39
15	Role of hypoxia in Diffuse Large B-cell Lymphoma: Metabolic repression and selective translation of HK2 facilitates development of DLBCL. Scientific Reports, 2018, 8, 744.	1.6	36
16	Global transcriptomic analysis suggests carbon dioxide as an environmental stressor in spaceflight: A systems biology GeneLab case study. Scientific Reports, 2018, 8, 4191.	1.6	35
17	Circulating miRNA Spaceflight Signature Reveals Targets for Countermeasure Development. Cell Reports, 2020, 33, 108448.	2.9	35
18	Host Age Is a Systemic Regulator of Gene Expression Impacting Cancer Progression. Cancer Research, 2015, 75, 1134-1143.	0.4	34

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19	Proteasomal Inhibition by Ixazomib Induces CHK1 and MYC-Dependent Cell Death in T-cell and Hodgkin Lymphoma. <i>Cancer Research</i> , 2016, 76, 3319-3331.	0.4	34
20	A microRNA signature and TGF- β 21 response were identified as the key master regulators for spaceflight response. <i>PLoS ONE</i> , 2018, 13, e0199621.	1.1	33
21	Interaction kinetics with transcriptomic and secretory responses of CD19-CAR natural killer-cell therapy in CD20 resistant non-hodgkin lymphoma. <i>Leukemia</i> , 2020, 34, 1291-1304.	3.3	33
22	A comprehensive SARS-CoV-2 and COVID-19 review, Part 1: Intracellular overdrive for SARS-CoV-2 infection. <i>European Journal of Human Genetics</i> , 2022, 30, 889-898.	1.4	30
23	Identification of Circulating Serum Multi-MicroRNA Signatures in Human DLBCL Models. <i>Scientific Reports</i> , 2019, 9, 17161.	1.6	25
24	System-wide transcriptome damage and tissue identity loss in COVID-19 patients. <i>Cell Reports Medicine</i> , 2022, 3, 100522.	3.3	24
25	GeneLab Database Analyses Suggest Long-Term Impact of Space Radiation on the Cardiovascular System by the Activation of FYN Through Reactive Oxygen Species. <i>International Journal of Molecular Sciences</i> , 2019, 20, 661.	1.8	23
26	DNA electrophoresis in agarose gels: Effects of field and gel concentration on the exponential dependence of reciprocal mobility on DNA length. <i>Electrophoresis</i> , 2002, 23, 2710-2719.	1.3	21
27	NASA GeneLab RNA-seq consensus pipeline: Standardized processing of short-read RNA-seq data. <i>IScience</i> , 2021, 24, 102361.	1.9	20
28	CPA: a web-based platform for consensus pathway analysis and interactive visualization. <i>Nucleic Acids Research</i> , 2021, 49, W114-W124.	6.5	20
29	Tumor-host signaling interaction reveals a systemic, age-dependent splenic immune influence on tumor development. <i>Oncotarget</i> , 2015, 6, 35419-35432.	0.8	20
30	NASA GeneLab Project: Bridging Space Radiation Omics with Ground Studies. <i>Radiation Research</i> , 2018, 189, 553-559.	0.7	19
31	Genomic Changes Driven by Radiation-Induced DNA Damage and Microgravity in Human Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10507.	1.8	19
32	The Impact of Age and Sex in DLBCL: Systems Biology Analyses Identify Distinct Molecular Changes and Signaling Networks. <i>Cancer Informatics</i> , 2015, 14, CIN.S34144.	0.9	18
33	Comparative oncology DNA sequencing of canine T cell lymphoma via human hotspot panel. <i>Oncotarget</i> , 2018, 9, 22693-22702.	0.8	18
34	NASA GeneLab Platform Utilized for Biological Response to Space Radiation in Animal Models. <i>Cancers</i> , 2020, 12, 381.	1.7	18
35	A Circulating microRNA Signature Predicts Age-Based Development of Lymphoma. <i>PLoS ONE</i> , 2017, 12, e0170521.	1.1	18
36	Beyond Low-Earth Orbit: Characterizing Immune and microRNA Differentials following Simulated Deep Spaceflight Conditions in Mice. <i>IScience</i> , 2020, 23, 101747.	1.9	17

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37	Age and Space Irradiation Modulate Tumor Progression: Implications for Carcinogenesis Risk. <i>Radiation Research</i> , 2013, 179, 208-220.	0.7	15
38	The interplay between lncRNAs, RNA-binding proteins and viral genome during SARS-CoV-2 infection reveals strong connections with regulatory events involved in RNA metabolism and immune response. <i>Theranostics</i> , 2022, 12, 3946-3962.	4.6	14
39	LET-Dependent Low Dose and Synergistic Inhibition of Human Angiogenesis by Charged Particles: Validation of miRNAs that Drive Inhibition. <i>IScience</i> , 2020, 23, 101771.	1.9	12
40	Proton Irradiation Augments the Suppression of Tumor Progression Observed with Advanced Age. <i>Radiation Research</i> , 2014, 181, 272-283.	0.7	11
41	Proton irradiation impacts age-driven modulations of cancer progression influenced by immune system transcriptome modifications from splenic tissue. <i>Journal of Radiation Research</i> , 2015, 56, 792-803.	0.8	10
42	Exploring the Effects of Spaceflight on Mouse Physiology using the Open Access NASA GeneLab Platform. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	10
43	Fractionated Radiation Exposure of Rat Spinal Cords Leads to Latent Neuro-Inflammation in Brain, Cognitive Deficits, and Alterations in Apurinic Endonuclease 1. <i>PLoS ONE</i> , 2015, 10, e0133016.	1.1	7
44	Combinatorial ixazomib and belinostat therapy induces NFE2L2-dependent apoptosis in Hodgkin and T-cell lymphoma. <i>British Journal of Haematology</i> , 2020, 188, 295-308.	1.2	7
45	Oncogenic Integration of Nucleotide Metabolism via Fatty Acid Synthase in Non-Hodgkin Lymphoma. <i>Frontiers in Oncology</i> , 2021, 11, 725137.	1.3	7
46	FAIRness and Usability for Open-access Omics Data Systems. <i>AMIA ... Annual Symposium proceedings</i> , 2018, 2018, 232-241.	0.2	7
47	Extraterrestrial Gynecology: Could Spaceflight Increase the Risk of Developing Cancer in Female Astronauts? An Updated Review. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7465.	1.8	7
48	Artificial Intelligence in Predicting Clinical Outcome in COVID-19 Patients from Clinical, Biochemical and a Qualitative Chest X-Ray Scoring System. <i>Reports in Medical Imaging</i> , 0, Volume 14, 27-39.	0.8	4
49	Early Tumor Development Captured Through Nondestructive, High Resolution Differential Phase Contrast X-ray Imaging. <i>Radiation Research</i> , 2013, 180, 448-454.	0.7	3
50	The Impact of Hindlimb Suspension on the Rat Eye: A Molecular and Histological Analysis of the Retina. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2021, 9, 86-103.	0.3	2
51	The Proteasome Inhibitor, Ixazomib, Combined with Novel Drug Combinations in T-Cell Lymphoma (TCL) and Hodgkin Lymphoma (HL): Identification of Key Genes and Signaling Pathways Via a Novel Systems Biology Approach. <i>Blood</i> , 2015, 126, 2753-2753.	0.6	2
52	Capturing the Driving Role of Tumor-Host Crosstalk in a Dynamical Model of Tumor Growth. <i>Bio-protocol</i> , 2015, 5, .	0.2	2
53	The PI3 Kinase (PI3K) Inhibitor, Buparlisib/BKM120, in B-Cell, T-Cell and Hodgkin Lymphoma Cell Lines: Cell Death Studies and Examination of Genomic Pathway Analyses Via a Systems Biology Approach. <i>Blood</i> , 2015, 126, 1555-1555.	0.6	2
54	Lipid Addiction of Diffuse Large B-Cell Lymphoma (DLBCL): Fatty Acid Synthase (FASN) and PI3K Dependent Cell Death Identifies a Novel Therapeutic Paradigm. <i>Blood</i> , 2015, 126, 1284-1284.	0.6	2

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55	Multi-Omics Analysis Reveals Mitochondrial Stress as a Central Hub for Spaceflight Biological Impact. SSRN Electronic Journal, 0, , .	0.4	2
56	Visualizing Omics Data from Spaceflight Samples using the NASA GeneLab Platform. , 0, , .		2
57	DNA electrophoresis in agarose gels: Effects of field and gel concentration on the exponential dependence of reciprocal mobility on DNA length. , 2002, 23, 2710.		1
58	Circulating miRNA Signature Predicts and Rescues Spaceflight Associated Health Risks. SSRN Electronic Journal, 0, , .	0.4	1
59	Abstract PR13: microRNAs: Master regulators of human tumor dormancy. Cancer Research, 2013, 73, PR13-PR13.	0.4	1
60	CD19 Target Activated Natural Killer (CD19.TaNK) Cellular Therapy: A Novel immunotherapeutic Approach to the Treatment of Non-Hodgkin Lymphoma (NHL). Blood, 2016, 128, 4174-4174.	0.6	1
61	EXPRESSION OF INSULIN RESISTANCE RELATED GENES DURING SPACEFLIGHT. Fertility and Sterility, 2021, 116, e107.	0.5	0
62	Abstract 1319: Proton irradiation exerts antiangiogenic and other tumor progression-limiting effects. , 2010, , .		0
63	A Comparative Oncology Study of Canine and Human Genomics and Proteomics in Peripheral T-Cell Lymphoma (PTCL): Examination of Shared Oncogenic Signaling for Biomarker and Therapeutic Target Discovery. Blood, 2014, 124, 3019-3019.	0.6	0
64	A Comparative Oncology Analysis of Canine T-Cell Lymphoma (TCL): Immunohistochemical Study and Next Generation Sequencing for Protein Analysis and Genomic Target Discovery. Blood, 2015, 126, 3883-3883.	0.6	0
65	The Impact of Age and Sex in DLBCL: Determination of Biologic Dynamics and Delineation of Inter-Connected Signaling Networks Via a Systems Biology Analysis. Blood, 2015, 126, 2672-2672.	0.6	0
66	Circulating microRNAs Predict the Initiation of NHL in a Novel In Vivo Model: Impact of Age and Sex Via a Systems Biology Approach. Blood, 2016, 128, 4114-4114.	0.6	0
67	Proteasome and HDAC Inhibitor Therapy in T-Cell Lymphoma (TCL) and Hodgkin Lymphoma (HL): Nuclear Factor Erythroid 2 like 2 (NRF2)-Dependent Cell Death and Function. Blood, 2016, 128, 3020-3020.	0.6	0
68	Buparlisib/BKM120 PI3 Kinase Therapy in B Cell and T Cell Non-Hodgkin Lymphoma (NHL) and Hodgkin Lymphoma (HL): Identification of Resistance Pathways and Biomarker Discovery. Blood, 2016, 128, 2920-2920.	0.6	0
69	Abstract 4455: Fatty acid synthase-induced S6Kinase facilitates USP11-eIF4B complex formation for sustained oncogenic translation in DLBCL. , 2018, , .		0
70	Ultra-Sensitive Detection of Circulating Serum microRNAs (miRNAs) in Diffuse Large B-Cell Lymphoma (DLBCL) Patient-Derived Xenograft (PDX) Models and Correlation with Disease Status in DLBCL Patient. Blood, 2018, 132, 2973-2973.	0.6	0
71	Systems Biology Analyses to Delineate Mechanisms of Anti-CD20 Antibody Resistance in Non-Hodgkin Lymphoma (NHL): Influence of BCR Signaling and the Critical Importance of Calcium Polarization. Blood, 2018, 132, 1665-1665.	0.6	0
72	Transcriptomic Systems Biology Analyses with Buparlisib (BKM120) Pan PI3K Inhibition in Canine B Cell Lymphoma (BCL): Leveraging Comparative Oncology for Cancer Therapeutics and Biomarker Discovery. Blood, 2018, 132, 4114-4114.	0.6	0

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73	Identification of FASN-Dependent Onco-Metabolic Regulation of the Pentose Phosphate Pathway (PPP) and Nucleotide Metabolism in Non-Hodgkin Lymphoma (NHL). <i>Blood</i> , 2019, 134, 1573-1573.	0.6	0
74	Transcriptomic and Metabolomic Profiling Identifies Calcium-Dependent Signaling Mechanisms As a Novel and Exploitable Target to Overcome Anti-CD20 Resistance in Non-Hodgkin Lymphoma (NHL). <i>Blood</i> , 2019, 134, 1511-1511.	0.6	0
75	Beyond Low-Earth Orbit: Characterizing the Immune Profile Following Simulated Spaceflight Conditions for Deep Space Missions. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
76	LET Dependent Low Dose and Synergistic Inhibition of Human Angiogenesis by Charged Particles: Validation of Mi RNAs that Drive Inhibition. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
77	SARS-CoV-2 antibody prevalence in a pediatric cohort of unvaccinated children in Mérida, Yucatán, México. <i>PLOS Global Public Health</i> , 2022, 2, e0000354.	0.5	0