Shankar Subramaniam

List of Publications by Year
in descending order

87 papers	5,786 citations	145106 33 h-index	97045 71 g-index
93 all docs	93 docs citations	93 times ranked	12198 citing authors

#	ARTICLE	IF	CITATIONS
1	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. Nature Methods, 2022, 19, 134-136.	9.0	35
2	Healthcare Innovations to Address the Challenges of the COVID-19 Pandemic. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3294-3302.	3.9	13
3	Endotype reversal as a novel strategy for screening drugs targeting familial Alzheimer's disease. Alzheimer's and Dementia, 2022, 18, 2117-2130.	0.4	9
4	Modular and mechanistic changes across stages of colorectal cancer. BMC Cancer, 2022, 22, 436.	1.1	3
5	Methadone disrupts early synaptic development in human cortical organoids. FASEB Journal, 2022, 36, .	0.2	0
6	Temporal mechanisms of myogenic specification in human induced pluripotent stem cells. Science Advances, 2021, 7, .	4.7	3
7	Adjuvanting a subunit COVID-19 vaccine to induce protective immunity. Nature, 2021, 594, 253-258.	13.7	253
8	Mechanisms of Impaired Lung Development and Ciliation in Mannosidase-1-Alpha-2 (Man1a2) Mutants. Frontiers in Physiology, 2021, 12, 658518.	1.3	2
9	The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination. Cell, 2021, 184, 3915-3935.e21.	13.5	133
10	Heme Oxygenase-1 at the Nexus of Endothelial Cell Fate Decision Under Oxidative Stress. Frontiers in Cell and Developmental Biology, 2021, 9, 702974.	1.8	3
11	The maternal blood lipidome is indicative of the pathogenesis of severe preeclampsia. Journal of Lipid Research, 2021, 62, 100118.	2.0	17
12	Longitudinal shear stress response in human endothelial cells to atheroprone and atheroprotective conditions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	43
13	Immune Response in Severe and Non-Severe Coronavirus Disease 2019 (COVID-19) Infection: A Mechanistic Landscape. Frontiers in Immunology, 2021, 12, 738073.	2.2	24
14	The Mechanistic Metamorphosis. WIREs Mechanisms of Disease, 2021, 13, e1517.	1.5	0
15	Skeletal muscle: A review of molecular structure and function, in health and disease. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2020, 12, e1462.	6.6	262
16	Update on LIPID MAPS classification, nomenclature, and shorthand notation for MS-derived lipid structures. Journal of Lipid Research, 2020, 61, 1539-1555.	2.0	372
17	RefMet: a reference nomenclature for metabolomics. Nature Methods, 2020, 17, 1173-1174.	9.0	52
18	Dedifferentiation and neuronal repression define familial Alzheimer's disease. Science Advances, 2020, 6, .	4.7	44

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19	Biliary-Atresia-Associated Mannosidase-1-Alpha-2 Gene Regulates Biliary and Ciliary Morphogenesis and Laterality. Frontiers in Physiology, 2020, 11, 538701.	1.3	13
20	Systems Analysis of Biliary Atresia Through Integration of High-Throughput Biological Data. Frontiers in Physiology, 2020, 11, 966.	1.3	3
21	Plasmin Cascade Mediates Thrombotic Events in SARS-CoV-2 Infection via Complement and Platelet-Activating Systems. IEEE Open Journal of Engineering in Medicine and Biology, 2020, 1, 220-227.	1.7	12
22	Steps Toward Minimal Reporting Standards for Lipidomics Mass Spectrometry in Biomedical Research Publications. Circulation Genomic and Precision Medicine, 2020, 13, e003019.	1.6	11
23	T cell-inducing vaccine durably prevents mucosal SHIV infection even with lower neutralizing antibody titers. Nature Medicine, 2020, 26, 932-940.	15.2	124
24	Cloud‐based archived metabolomics data: A resource for in‐source fragmentation/annotation, meta‐analysis and systems biology. Analytical Science Advances, 2020, 1, 70-80.	1.2	3
25	Attractor Ranked Radial Basis Function Network: A Nonparametric Forecasting Approach for Chaotic Dynamic Systems. Scientific Reports, 2020, 10, 3780.	1.6	5
26	Histone Signatures Predict Therapeutic Efficacy in Breast Cancer. IEEE Open Journal of Engineering in Medicine and Biology, 2020, 1, 74-82.	1.7	3
27	Cover Image, Volume 12, Issue 1. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2020, 12, e1473.	6.6	4
28	Right and left-sided colon cancers - specificity of molecular mechanisms in tumorigenesis and progression. BMC Cancer, 2020, 20, 317.	1.1	51
29	Time varying causal network reconstruction of a mouse cell cycle. BMC Bioinformatics, 2019, 20, 294.	1.2	3
30	Topological and functional comparison of community detection algorithms in biological networks. BMC Bioinformatics, 2019, 20, 212.	1.2	41
31	LIPID MAPS: Serving the next generation of lipid researchers with tools, resources, data, and training. Science Signaling, 2019, 12, .	1.6	87
32	Enhancer-associated long non-coding RNA LEENE regulates endothelial nitric oxide synthase and endothelial function. Nature Communications, 2018, 9, 292.	5.8	129
33	Co-Expression Network Approach to Studying the Effects of Botulinum Neurotoxin-A. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 2009-2016.	1.9	3
34	A Cybernetic Approach to Modeling Lipid Metabolism in Mammalian Cells. Processes, 2018, 6, 126.	1.3	7
35	miRNAs that Induce Human Cardiomyocyte Proliferation Converge on the Hippo Pathway. Cell Reports, 2018, 23, 2168-2174.	2.9	73
36	Signed Differential Co‐Expression Network Analysis Suggests Differential Regulation of SP/KLF Family of Transcription Factors in Dilated Cardiomyopathy. FASEB Journal, 2018, 32, .	0.2	0

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37	AMPK promotes mitochondrial biogenesis and function by phosphorylating the epigenetic factors DNMT1, RBBP7, and HAT1. Science Signaling, 2017, 10, .	1.6	170
38	Epigenetic Regulation: A New Frontier for Biomedical Engineers. Annual Review of Biomedical Engineering, 2017, 19, 195-219.	5.7	135
39	Three distinct cell populations express extracellular matrix proteins and increase in number during skeletal muscle fibrosis. American Journal of Physiology - Cell Physiology, 2017, 312, C131-C143.	2.1	49
40	Metabolic Phenotypes of Response to Vaccination in Humans. Cell, 2017, 169, 862-877.e17.	13.5	234
41	LINC00341 exerts an anti-inflammatory effect on endothelial cells by repressing VCAM1. Physiological Genomics, 2017, 49, 339-345.	1.0	53
42	Discovering and linking public omics data sets using the Omics Discovery Index. Nature Biotechnology, 2017, 35, 406-409.	9.4	159
43	Systems biology analysis of longitudinal functional response of endothelial cells to shear stress. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10990-10995.	3.3	95
44	Krüppel-Like Factor 4 Regulation of Cholesterol-25-Hydroxylase and Liver X Receptor Mitigates Atherosclerosis Susceptibility. Circulation, 2017, 136, 1315-1330.	1.6	87
45	Co-expression Network Approach Reveals Functional Similarities among Diseases Affecting Human Skeletal Muscle. Frontiers in Physiology, 2017, 8, 980.	1.3	19
46	Enhanced B Cell Alloantigen Presentation and Its Epigenetic Dysregulation in Liver Transplant Rejection. American Journal of Transplantation, 2016, 16, 497-508.	2.6	17
47	Loss of EGFR-ASAP1 signaling in metastatic and unresectable hepatoblastoma. Scientific Reports, 2016, 6, 38347.	1.6	20
48	Systems Analysis of the Complement-Induced Priming Phase of Liver Regeneration. Journal of Immunology, 2016, 197, 2500-2508.	0.4	22
49	Computational Modeling of Competitive Metabolism between Ï‰3- and Ï‰6-Polyunsaturated Fatty Acids in Inflammatory Macrophages. Journal of Physical Chemistry B, 2016, 120, 8346-8353.	1.2	11
50	p62, Upregulated during Preneoplasia, Induces Hepatocellular Carcinogenesis by Maintaining Survival of Stressed HCC-Initiating Cells. Cancer Cell, 2016, 29, 935-948.	7.7	353
51	Serum microRNAs explain discordance of non-alcoholic fatty liver disease in monozygotic and dizygotic twins: a prospective study. Gut, 2016, 65, 1546-1554.	6.1	75
52	Metabolomics Workbench: An international repository for metabolomics data and metadata, metabolite standards, protocols, tutorials and training, and analysis tools. Nucleic Acids Research, 2016, 44, D463-D470.	6.5	568
53	Identification of therapeutic targets for glioblastoma by network analysis. Oncogene, 2016, 35, 608-620.	2.6	18
54	Scope and limitations of yeast as a model organism for studying human tissue-specific pathways. BMC Systems Biology, 2015, 9, 96.	3.0	33

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55	The Role of ARF6 in Biliary Atresia. PLoS ONE, 2015, 10, e0138381.	1.1	66
56	Dysregulated mechanisms underlying Duchenne muscular dystrophy from co-expression network preservation analysis. BMC Research Notes, 2015, 8, 182.	0.6	24
57	Systems Analysis of Immunity to Influenza Vaccination across Multiple Years and in Diverse Populations Reveals Shared Molecular Signatures. Immunity, 2015, 43, 1186-1198.	6.6	286
58	Systems vaccinology: Enabling rational vaccine design with systems biological approaches. Vaccine, 2015, 33, 5294-5301.	1.7	108
59	Identification of AMP-activated protein kinase targets by a consensus sequence search of the proteome. BMC Systems Biology, 2015, 9, 13.	3.0	23
60	Biomarkers of NAFLD progression: a lipidomics approach to an epidemic. Journal of Lipid Research, 2015, 56, 722-736.	2.0	264
61	Influence of serological factors and BMI on the blood pressure/hematocrit association in healthy young men and women. Vascular Health and Risk Management, 2014, 10, 271.	1.0	3
62	Replacing the Transfusion of 1â€"2 Units of Blood with Plasma Expanders that Increase Oxygen Delivery Capacity: Evidence from Experimental Studies. Journal of Functional Biomaterials, 2014, 5, 232-245.	1.8	5
63	Drug discovery and the maze of biological complexity: an editorial essay. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2014, 6, 225-226.	6.6	2
64	Information theoretic approach to complex biological network reconstruction: application to cytokine release in RAW 264.7 macrophages. BMC Systems Biology, 2014, 8, 77.	3.0	11
65	Systems analysis of transcriptional data provides insights into muscle's biological response to botulinum toxin. Muscle and Nerve, 2014, 50, 744-758.	1.0	33
66	Modeling of Eicosanoid Fluxes Reveals Functional Coupling between Cyclooxygenases and Terminal Synthases. Biophysical Journal, 2014, 106, 966-975.	0.2	25
67	Statistical insights into major human muscular diseases. Human Molecular Genetics, 2014, 23, 3772-3778.	1.4	10
68	MicroRNA-23b Regulates Cyclin-Dependent Kinaseâ€"Activating Kinase Complex Through Cyclin H Repression to Modulate Endothelial Transcription and Growth Under Flow. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1437-1445.	1.1	33
69	Technical Variations in Low-Input RNA-seq Methodologies. Scientific Reports, 2014, 4, 3678.	1.6	75
70	Wnt Pathway Activation Increases Hypoxia Tolerance during Development. PLoS ONE, 2014, 9, e103292.	1.1	8
71	Gene-expression measurement: variance-modeling considerations for robust data analysis. Nature Immunology, 2012, 13, 199-203.	7.0	26
72	A Complementâ€"IL-4 Regulatory Circuit Controls Liver Regeneration. Journal of Immunology, 2012, 188, 641-648.	0.4	52

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73	LIPID MAPS-Nature Lipidomics Gateway: An Online Resource for Students and Educators Interested in Lipids. Journal of Chemical Education, 2012, 89, 291-292.	1.1	55
74	Functional classification of skeletal muscle networks. II. Applications to pathophysiology. Journal of Applied Physiology, 2012, 113, 1902-1920.	1.2	8
75	Evolution of Bioengineering at UCSD: Opening New Vistas. IEEE Pulse, 2012, 3, 49-55.	0.1	0
76	Bioinformatics and Systems Biology of the Lipidome. Chemical Reviews, 2011, 111, 6452-6490.	23.0	154
77	Systems medicineâ€"viewed through the real and computing lenses. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 383-384.	6.6	2
78	Systems biologyâ€"old wine in a new bottle or is the bottle changing the wine?. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 1-2.	6.6	2
79	Systems Biology and Medicineâ€"Metaâ€"Issues and Frameworks. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, i-ii.	6.6	0
80	Role of microRNA-23b in flow-regulation of Rb phosphorylation and endothelial cell growth. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3234-3239.	3.3	160
81	A Mouse Macrophage Lipidome. Journal of Biological Chemistry, 2010, 285, 39976-39985.	1.6	260
82	Identification of Crosstalk between Phosphoprotein Signaling Pathways in RAW 264.7 Macrophage Cells. PLoS Computational Biology, 2010, 6, e1000654.	1.5	15
83	A Clustering Approach to Identify Intergenic Non-coding RNA in Mouse Macrophages. , 2010, , .		0
84	Systems Biology and Medicine: A New Take on an Old Paradigm. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2009, 1, 1-3.	6.6	5
85	A comprehensive classification system for lipids. European Journal of Lipid Science and Technology, 2005, 107, 337-364.	1.0	94
86	Bioinformatics of Cellular Signalling. Novartis Foundation Symposium, 2002, 247, 104-118.	1.2	1
87	Domain architecture of aCaenorhabditis elegansAKAP suggests a novel AKAP function. FEBS Letters, 2000, 486, 107-111.	1.3	9