

# Suresh Mathivanan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5884584/publications.pdf>

Version: 2024-02-01

115  
papers

33,130  
citations

28190

55  
h-index

22764

112  
g-index

116  
all docs

116  
docs citations

116  
times ranked

38318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1535750.	5.5	6,961
2	Human Protein Reference Database--2009 update. <i>Nucleic Acids Research</i> , 2009, 37, D767-D772.	6.5	2,882
3	Minimal experimental requirements for definition of extracellular vesicles and their functions: a position statement from the International Society for Extracellular Vesicles. <i>Journal of Extracellular Vesicles</i> , 2014, 3, 26913.	5.5	2,110
4	Exosomes: Extracellular organelles important in intercellular communication. <i>Journal of Proteomics</i> , 2010, 73, 1907-1920.	1.2	2,087
5	FunRich: An open access standalone functional enrichment and interaction network analysis tool. <i>Proteomics</i> , 2015, 15, 2597-2601.	1.3	1,145
6	Vesiclepedia: A Compendium for Extracellular Vesicles with Continuous Community Annotation. <i>PLoS Biology</i> , 2012, 10, e1001450.	2.6	1,064
7	ExoCarta: A Web-Based Compendium of Exosomal Cargo. <i>Journal of Molecular Biology</i> , 2016, 428, 688-692.	2.0	1,034
8	Comparison of ultracentrifugation, density gradient separation, and immunoaffinity capture methods for isolating human colon cancer cell line LIM1863-derived exosomes. <i>Methods</i> , 2012, 56, 293-304.	1.9	943
9	Exosomes: proteomic insights and diagnostic potential. <i>Expert Review of Proteomics</i> , 2009, 6, 267-283.	1.3	935
10	ExoCarta 2012: database of exosomal proteins, RNA and lipids. <i>Nucleic Acids Research</i> , 2012, 40, D1241-D1244.	6.5	893
11	EV-TRACK: transparent reporting and centralizing knowledge in extracellular vesicle research. <i>Nature Methods</i> , 2017, 14, 228-232.	9.0	886
12	ExoCarta: A compendium of exosomal proteins and RNA. <i>Proteomics</i> , 2009, 9, 4997-5000.	1.3	756
13	Focus on Extracellular Vesicles: Introducing the Next Small Big Thing. <i>International Journal of Molecular Sciences</i> , 2016, 17, 170.	1.8	612
14	Vesiclepedia 2019: A compendium of RNA, proteins, lipids and metabolites in extracellular vesicles. <i>Nucleic Acids Research</i> , 2019, 47, D516-D519.	6.5	515
15	Comparative proteomics evaluation of plasma exosome isolation techniques and assessment of the stability of exosomes in normal human blood plasma. <i>Proteomics</i> , 2013, 13, 3354-3364.	1.3	501
16	Proteomics Analysis of A33 Immunoaffinity-purified Exosomes Released from the Human Colon Tumor Cell Line LIM1215 Reveals a Tissue-specific Protein Signature. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 197-208.	2.5	496
17	Global proteomic profiling of phosphopeptides using electron transfer dissociation tandem mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2199-2204.	3.3	489
18	NetPath: a public resource of curated signal transduction pathways. <i>Genome Biology</i> , 2010, 11, R3.	13.9	456

#	ARTICLE	IF	CITATIONS
19	Analysis of the human protein interactome and comparison with yeast, worm and fly interaction datasets. <i>Nature Genetics</i> , 2006, 38, 285-293.	9.4	433
20	Exosomes in bodily fluids are a highly stable resource of disease biomarkers. <i>Proteomics - Clinical Applications</i> , 2015, 9, 358-367.	0.8	426
21	Two Distinct Populations of Exosomes Are Released from LIM1863 Colon Carcinoma Cell-derived Organoids. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 587-598.	2.5	354
22	A curated compendium of phosphorylation motifs. <i>Nature Biotechnology</i> , 2007, 25, 285-286.	9.4	345
23	EVpedia: a community web portal for extracellular vesicles research. <i>Bioinformatics</i> , 2015, 31, 933-939.	1.8	317
24	ExoCarta as a resource for exosomal research. <i>Journal of Extracellular Vesicles</i> , 2012, 1, .	5.5	314
25	A novel community driven software for functional enrichment analysis of extracellular vesicles data. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1321455.	5.5	314
26	Proteome profiling of exosomes derived from human primary and metastatic colorectal cancer cells reveal differential expression of key metastatic factors and signal transduction components. <i>Proteomics</i> , 2013, 13, 1672-1686.	1.3	296
27	Large oncosomes contain distinct protein cargo and represent a separate functional class of tumor-derived extracellular vesicles. <i>Oncotarget</i> , 2015, 6, 11327-11341.	0.8	289
28	Plasma Proteome Database as a resource for proteomics research: 2014 update. <i>Nucleic Acids Research</i> , 2014, 42, D959-D965.	6.5	273
29	A novel mechanism of generating extracellular vesicles during apoptosis via a beads-on-a-string membrane structure. <i>Nature Communications</i> , 2015, 6, 7439.	5.8	267
30	A Compendium of Potential Biomarkers of Pancreatic Cancer. <i>PLoS Medicine</i> , 2009, 6, e1000046.	3.9	260
31	Extracellular Vesicles from Neural Stem Cells Transfer IFN- $\beta$ via Ifngr1 to Activate Stat1 Signaling in Target Cells. <i>Molecular Cell</i> , 2014, 56, 193-204.	4.5	258
32	Extracellular vesicles including exosomes are mediators of signal transduction: Are they protective or pathogenic?. <i>Proteomics</i> , 2015, 15, 260-271.	1.3	230
33	Proteogenomic analysis reveals exosomes are more oncogenic than ectosomes. <i>Oncotarget</i> , 2015, 6, 15375-15396.	0.8	226
34	An evaluation of human protein-protein interaction data in the public domain. <i>BMC Bioinformatics</i> , 2006, 7, S19.	1.2	201
35	Updating the MISEV minimal requirements for extracellular vesicle studies: building bridges to reproducibility. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1396823.	5.5	185
36	Ticket to a bubble ride: Cargo sorting into exosomes and extracellular vesicles. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 140203.	1.1	179

#	ARTICLE	IF	CITATIONS
37	CAF hierarchy driven by pancreatic cancer cell p53-status creates a pro-metastatic and chemoresistant environment via perlecan. <i>Nature Communications</i> , 2019, 10, 3637.	5.8	170
38	Human Proteinpedia enables sharing of human protein data. <i>Nature Biotechnology</i> , 2008, 26, 164-167.	9.4	155
39	Rapid and comprehensive "shotgun" lipidome profiling of colorectal cancer cell derived exosomes. <i>Methods</i> , 2015, 87, 83-95.	1.9	148
40	FunRich enables enrichment analysis of OMICs datasets. <i>Journal of Molecular Biology</i> , 2021, 433, 166747.	2.0	144
41	Bovine milk-derived exosomes from colostrum are enriched with proteins implicated in immune response and growth. <i>Scientific Reports</i> , 2017, 7, 5933.	1.6	139
42	Plasma Proteome Database as a resource for proteomics research. <i>Proteomics</i> , 2005, 5, 3531-3536.	1.3	135
43	Proteomic Profiling of Exosomes Secreted by Breast Cancer Cells with Varying Metastatic Potential. <i>Proteomics</i> , 2017, 17, 1600370.	1.3	109
44	Extracellular vesicles secreted by <i>Saccharomyces cerevisiae</i> are involved in cell wall remodelling. <i>Communications Biology</i> , 2019, 2, 305.	2.0	106
45	Extracellular vesicles including exosomes in cross kingdom regulation: a viewpoint from plant-fungal interactions. <i>Frontiers in Plant Science</i> , 2015, 6, 766.	1.7	96
46	Sengers Syndrome-Associated Mitochondrial Acylglycerol Kinase Is a Subunit of the Human TIM22 Protein Import Complex. <i>Molecular Cell</i> , 2017, 67, 457-470.e5.	4.5	96
47	Extracellular Vesicles From the Cotton Pathogen <i>Fusarium oxysporum</i> f. sp. <i>vasinfectum</i> Induce a Phytotoxic Response in Plants. <i>Frontiers in Plant Science</i> , 2019, 10, 1610.	1.7	92
48	Milk-Derived Extracellular Vesicles in Inter-Organism, Cross-Species Communication and Drug Delivery. <i>Proteomes</i> , 2020, 8, 11.	1.7	86
49	Extracellular peptidases of the cereal pathogen <i>Fusarium graminearum</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 962.	1.7	78
50	Human Proteinpedia: a unified discovery resource for proteomics research. <i>Nucleic Acids Research</i> , 2009, 37, D773-D781.	6.5	75
51	Oral administration of bovine milk-derived extracellular vesicles induces senescence in the primary tumor but accelerates cancer metastasis. <i>Nature Communications</i> , 2021, 12, 3950.	5.8	70
52	Tumor microenvironmental cytokines bound to cancer exosomes determine uptake by cytokine receptor-expressing cells and biodistribution. <i>Nature Communications</i> , 2021, 12, 3543.	5.8	69
53	Extracellular vesicles containing oncogenic mutant $\beta$ -catenin activate Wnt signalling pathway in the recipient cells. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1690217.	5.5	66
54	Label-Based and Label-Free Strategies for Protein Quantitation. <i>Methods in Molecular Biology</i> , 2017, 1549, 31-43.	0.4	65

#	ARTICLE	IF	CITATIONS
55	Tim29 is a novel subunit of the human TIM22 translocase and is involved in complex assembly and stability. <i>ELife</i> , 2016, 5, .	2.8	65
56	Extracellular Microvesicles: The Need for Internationally Recognised Nomenclature and Stringent Purification Criteria. <i>Journal of Proteomics and Bioinformatics</i> , 2012, 05, .	0.4	64
57	Exosomes from Nâ€Myc amplified neuroblastoma cells induce migration and confer chemoresistance to nonâ€Nâ€Myc amplified cells: implications of intraâ€tumour heterogeneity. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1597614.	5.5	57
58	Colorectal cancer atlas: An integrative resource for genomic and proteomic annotations from colorectal cancer cell lines and tissues. <i>Nucleic Acids Research</i> , 2016, 44, D969-D974.	6.5	55
59	Identifying mutated proteins secreted by colon cancer cell lines using mass spectrometry. <i>Journal of Proteomics</i> , 2012, 76, 141-149.	1.2	54
60	Exomeres: A New Member of Extracellular Vesicles Family. <i>Sub-Cellular Biochemistry</i> , 2021, 97, 89-97.	1.0	53
61	Proteomics Profiling of Madin-Darby Canine Kidney Plasma Membranes Reveals Wnt-5a Involvement during Oncogenic H-Ras/TGF- $\beta$ -mediated Epithelial-Mesenchymal Transition. <i>Molecular and Cellular Proteomics</i> , 2011, 10, S1-S15.	2.5	47
62	Emerging role of extracellular vesicles in mediating cancer cachexia. <i>Biochemical Society Transactions</i> , 2018, 46, 1129-1136.	1.6	46
63	Triton X-114 phase separation in the isolation and purification of mouse liver microsomal membrane proteins. <i>Methods</i> , 2011, 54, 396-406.	1.9	41
64	Arrestinâ€Domain Containing Protein 1 (Arrdc1) Regulates the Protein Cargo and Release of Extracellular Vesicles. <i>Proteomics</i> , 2018, 18, e1800266.	1.3	41
65	Analysis of extracellular vesicles generated from monocytes under conditions of lytic cell death. <i>Scientific Reports</i> , 2019, 9, 7538.	1.6	39
66	Biogenesis of Extracellular Vesicles. <i>Sub-Cellular Biochemistry</i> , 2021, 97, 19-43.	1.0	39
67	Regulation of the divalent metal ion transporter via membrane budding. <i>Cell Discovery</i> , 2016, 2, 16011.	3.1	38
68	Deletion of intestinal Hdac3 remodels the lipidome of enterocytes and protects mice from diet-induced obesity. <i>Nature Communications</i> , 2019, 10, 5291.	5.8	37
69	Identification of Novel Phosphorylation Motifs Through an Integrative Computational and Experimental Analysis of the Human Phosphoproteome. <i>Journal of Proteomics and Bioinformatics</i> , 2011, 04, 22-35.	0.4	31
70	BCL-2 family protein BOK is a positive regulator of uridine metabolism in mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15469-15474.	3.3	31
71	The Protective Effect of Exercise in Neurodegenerative Diseases: The Potential Role of Extracellular Vesicles. <i>Cells</i> , 2020, 9, 2182.	1.8	31
72	Autotransporter Adhesins in <i>Escherichia coli</i> Pathogenesis. <i>Proteomics</i> , 2017, 17, 1600431.	1.3	28

#	ARTICLE	IF	CITATIONS
73	Plexin B2 Is a Regulator of Monocyte Apoptotic Cell Disassembly. <i>Cell Reports</i> , 2019, 29, 1821-1831.e3.	2.9	28
74	Secreted Tumor Antigens as Immune Biomarkers for Diagnosis and Therapy. <i>Proteomics</i> , 2017, 17, 1600442.	1.3	27
75	Proteomic profiling of secretome and adherent plasma membranes from distinct mammary epithelial cell subpopulations. <i>Proteomics</i> , 2011, 11, 4029-4039.	1.3	25
76	Extending gene ontology in the context of extracellular RNA and vesicle communication. <i>Journal of Biomedical Semantics</i> , 2016, 7, 19.	0.9	24
77	Insulin Mediated Activation of PI3K/Akt Signalling Pathway Modifies the Proteomic Cargo of Extracellular Vesicles. <i>Proteomics</i> , 2017, 17, 1600371.	1.3	24
78	Proteogenomic Analysis of the <i>Venturia pirina</i> (Pear Scab Fungus) Secretome Reveals Potential Effectors. <i>Journal of Proteome Research</i> , 2014, 13, 3635-3644.	1.8	23
79	Inhibition of cathepsin proteases attenuates migration and sensitizes aggressive N-Myc amplified human neuroblastoma cells to doxorubicin. <i>Oncotarget</i> , 2015, 6, 11175-11190.	0.8	22
80	Powerful differential expression analysis incorporating network topology for next-generation sequencing data. <i>Bioinformatics</i> , 2017, 33, 1505-1513.	1.8	20
81	The International Society for Extracellular Vesicles launches the first massive open online course on extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2016, 5, 34299.	5.5	19
82	Introduction to the Community of Extracellular Vesicles. <i>Sub-Cellular Biochemistry</i> , 2021, 97, 3-18.	1.0	18
83	Human Proteinpedia as a Resource for Clinical Proteomics. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 2038-2047.	2.5	17
84	Network Tools for the Analysis of Proteomic Data. <i>Methods in Molecular Biology</i> , 2017, 1549, 177-197.	0.4	17
85	Bioinformatics Tools for Extracellular Vesicles Research. <i>Methods in Molecular Biology</i> , 2017, 1545, 189-196.	0.4	16
86	Cortactin enhances exosome secretion without altering cargo. <i>Journal of Cell Biology</i> , 2016, 214, 129-131.	2.3	15
87	Pannexin1 channel regulates nuclear content packaging into apoptotic bodies and their size. <i>Proteomics</i> , 2021, 21, e2000097.	1.3	15
88	The Role of Post-Translational Modifications in Targeting Protein Cargo to Extracellular Vesicles. <i>Sub-Cellular Biochemistry</i> , 2021, 97, 45-60.	1.0	15
89	Proteomic resources: Integrating biomedical information in humans. <i>Gene</i> , 2005, 364, 13-18.	1.0	14
90	Aradc4-dependent extracellular vesicle biogenesis is required for sperm maturation. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12113.	5.5	14

#	ARTICLE	IF	CITATIONS
91	Tandem application of cationic colloidal silica and Triton X-114 for plasma membrane protein isolation and purification: Towards developing an MDCK protein database. <i>Proteomics</i> , 2011, 11, 1238-1253.	1.3	12
92	Sulfisoxazole does not inhibit the secretion of small extracellular vesicles. <i>Nature Communications</i> , 2021, 12, 977.	5.8	12
93	Extracellular Vesicles in Metabolism and Metabolic Diseases. <i>Sub-Cellular Biochemistry</i> , 2021, 97, 393-410.	1.0	11
94	Temporal Quantitative Proteomics Analysis of Neuroblastoma Cells Treated with Bovine Milk-Derived Extracellular Vesicles Highlights the Anti-Proliferative Properties of Milk-Derived Extracellular Vesicles. <i>Cells</i> , 2021, 10, 750.	1.8	11
95	Proteotypic Peptides and Their Applications. <i>Methods in Molecular Biology</i> , 2017, 1549, 101-107.	0.4	11
96	TAGmapper: A web-based tool for mapping SAGE tags. <i>Gene</i> , 2005, 364, 123-129.	1.0	10
97	Unassigned MS/MS Spectra: Who Am I?. <i>Methods in Molecular Biology</i> , 2017, 1549, 67-74.	0.4	10
98	Immunoprofiling of Breast Cancer Antigens Using Antibodies Derived from Local Lymph Nodes. <i>Cancers</i> , 2019, 11, 682.	1.7	10
99	MicroRNA-21 is immunosuppressive and pro-metastatic via separate mechanisms. <i>Oncogenesis</i> , 2022, 11, .	2.1	9
100	K <sup>629</sup> linked ubiquitination of Arrdc4 regulates its function in extracellular vesicle biogenesis. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12188.	5.5	8
101	Are Dietary Extracellular Vesicles Bioavailable and Functional in Consuming Organisms?. <i>Sub-Cellular Biochemistry</i> , 2021, 97, 509-521.	1.0	7
102	Engineering Extracellular Vesicles for Cancer Therapy. <i>Sub-Cellular Biochemistry</i> , 2021, 97, 375-392.	1.0	6
103	Integrated Bioinformatics Analysis of the Publicly Available Protein Data Shows Evidence for 96% of the Human Proteome. <i>Journal of Proteomics and Bioinformatics</i> , 2014, 07, .	0.4	6
104	Extracellular Matrix and the Extracellular Environment. <i>Proteomics</i> , 2017, 17, 7700185.	1.3	4
105	Extracellular Vesicles Regulate Cancer Metastasis. <i>Sub-Cellular Biochemistry</i> , 2021, 97, 275-296.	1.0	4
106	Quest for Cancer Biomarkers: Assaying Mutant Proteins and RNA that Provides the Much Needed Specificity. <i>Journal of Proteomics and Bioinformatics</i> , 2012, 05, .	0.4	4
107	Extracellular Vesicles from Neural Stem Cells Transfer IFN- $\beta$ via Ifngr1 to Activate Stat1 Signaling in Target Cells. <i>Molecular Cell</i> , 2014, 56, 609.	4.5	3
108	Integration of heterogeneous omics™ data using semi-supervised network labelling to identify essential genes in colorectal cancer. <i>Computers and Electrical Engineering</i> , 2018, 67, 267-277.	3.0	3

#	ARTICLE	IF	CITATIONS
109	A High-Resolution Mass Spectrometry-Based Quantitative Metabolomic Workflow Highlights Defects in 5-Fluorouracil Metabolism in Cancer Cells with Acquired Chemoresistance. <i>Biology</i> , 2020, 9, 96.	1.3	3
110	Proteomic Data Storage and Sharing. <i>Methods in Molecular Biology</i> , 2017, 1549, 5-15.	0.4	2
111	Extracellular vesicles from neural stem cells transfer the IFN- $\beta$ /IFNGR1 complex to activate Stat1-dependent signalling in target cells. <i>Journal of Neuroimmunology</i> , 2014, 275, 190-191.	1.1	1
112	Repurposing of Antibiotic Sulfisoxazole Inhibits Lipolysis in Pre-Clinical Model of Cancer-Associated Cachexia. <i>Biology</i> , 2021, 10, 700.	1.3	1
113	Deubiquitinase enzyme STAMBP plays a broad role in both Toll-like and Nod-like receptor mediated inflammation. <i>European Journal of Inflammation</i> , 2020, 18, 205873922096084.	0.2	0
114	Abstract 3932: Dual role of p120ctn in cancer: epithelial vs mesenchymal. , 2017, , .		0
115	Abstract 5880: Acquired chemotherapeutic drug resistance in colorectal cancer is regulated by epithelial-to-mesenchymal transition and altered cellular pathways. , 2017, , .		0