

# James W Dennis

## List of Publications by Year in descending order

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122  
papers

11,565  
citations

38742

50  
h-index

28297

105  
g-index

127  
all docs

127  
docs citations

127  
times ranked

15230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Negative regulation of T-cell activation and autoimmunity by Mgat5 N-glycosylation. <i>Nature</i> , 2001, 409, 733-739.	27.8	813
2	Complex N-Glycan Number and Degree of Branching Cooperate to Regulate Cell Proliferation and Differentiation. <i>Cell</i> , 2007, 129, 123-134.	28.9	777
3	Regulation of Cytokine Receptors by Golgi N-Glycan Processing and Endocytosis. <i>Science</i> , 2004, 306, 120-124.	12.6	641
4	Suppression of tumor growth and metastasis in Mgat5-deficient mice. <i>Nature Medicine</i> , 2000, 6, 306-312.	30.7	511
5	Metabolism, Cell Surface Organization, and Disease. <i>Cell</i> , 2009, 139, 1229-1241.	28.9	400
6	Protein glycosylation in development and disease. <i>BioEssays</i> , 1999, 21, 412-421.	2.5	361
7	Interferon Alfacon-1 Plus Corticosteroids in Severe Acute Respiratory Syndrome. <i>JAMA - Journal of the American Medical Association</i> , 2003, 290, 3222.	7.4	360
8	N-Glycans in cancer progression. <i>Glycobiology</i> , 2008, 18, 750-760.	2.5	358
9	A Genetic Map of the Response to DNA Damage in Human Cells. <i>Cell</i> , 2020, 182, 481-496.e21.	28.9	324
10	The hexosamine biosynthetic pathway couples growth factor-induced glutamine uptake to glucose metabolism. <i>Genes and Development</i> , 2010, 24, 2784-2799.	5.9	315
11	Lattices, rafts, and scaffolds: domain regulation of receptor signaling at the plasma membrane. <i>Journal of Cell Biology</i> , 2009, 185, 381-385.	5.2	305
12	Glycosylation, galectins and cellular signaling. <i>Current Opinion in Cell Biology</i> , 2011, 23, 383-392.	5.4	304
13	Temporal regulation of EGF signalling networks by the scaffold protein Shc1. <i>Nature</i> , 2013, 499, 166-171.	27.8	257
14	The galectin lattice at a glance. <i>Journal of Cell Science</i> , 2015, 128, 2213-2219.	2.0	254
15	Fetuin/±2-HS Glycoprotein Is a Transforming Growth Factor-β Type II Receptor Mimic and Cytokine Antagonist. <i>Journal of Biological Chemistry</i> , 1996, 271, 12755-12761.	3.4	237
16	Plasma membrane domain organization regulates EGFR signaling in tumor cells. <i>Journal of Cell Biology</i> , 2007, 179, 341-356.	5.2	231
17	±2-HS Glycoprotein/Fetuin, a Transforming Growth Factor-β/Bone Morphogenetic Protein Antagonist, Regulates Postnatal Bone Growth and Remodeling. <i>Journal of Biological Chemistry</i> , 2002, 277, 19991-19997.	3.4	194
18	Plk4 haploinsufficiency causes mitotic infidelity and carcinogenesis. <i>Nature Genetics</i> , 2005, 37, 883-888.	21.4	189

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19	Adaptive Regulation at the Cell Surface by N-Glycosylation. <i>Traffic</i> , 2009, 10, 1569-1578.	2.7	188
20	Galectin Binding to Mgat5-Modified N-Glycans Regulates Fibronectin Matrix Remodeling in Tumor Cells. <i>Molecular and Cellular Biology</i> , 2006, 26, 3181-3193.	2.3	185
21	Biogenesis of Multilamellar Bodies via Autophagy. <i>Molecular Biology of the Cell</i> , 2000, 11, 255-268.	2.1	157
22	Tumor cell surface carbohydrate and the metastatic phenotype. <i>Cancer and Metastasis Reviews</i> , 1987, 5, 185-204.	5.9	144
23	Genetics and the environment converge to dysregulate N-glycosylation in multiple sclerosis. <i>Nature Communications</i> , 2011, 2, 334.	12.8	142
24	Decreased UDP-GlcNAc levels abrogate proliferation control in EMeg32-deficient cells. <i>EMBO Journal</i> , 2000, 19, 5092-5104.	7.8	140
25	N-Acetylglucosaminyltransferase V (Mgat5)-Mediated N-Glycosylation Negatively Regulates Th1 Cytokine Production by T Cells. <i>Journal of Immunology</i> , 2004, 173, 7200-7208.	0.8	140
26	The Sak polo-box comprises a structural domain sufficient for mitotic subcellular localization. <i>Nature Structural Biology</i> , 2002, 9, 719-724.	9.7	134
27	Control of T Cell-mediated Autoimmunity by Metabolite Flux to N-Glycan Biosynthesis. <i>Journal of Biological Chemistry</i> , 2007, 282, 20027-20035.	3.4	122
28	Plk4 Promotes Cancer Invasion and Metastasis through Arp2/3 Complex Regulation of the Actin Cytoskeleton. <i>Cancer Research</i> , 2017, 77, 434-447.	0.9	116
29	Regulation of Osteogenesis by Fetuin. <i>Journal of Biological Chemistry</i> , 1999, 274, 28514-28520.	3.4	113
30	Polyoma and hamster papovavirus large T antigen-mediated replication of expression shuttle vectors in Chinese hamster ovary cells. <i>Nucleic Acids Research</i> , 1991, 19, 85-92.	14.5	107
31	Comparative Expression of the Mitotic Regulators SAK and PLK in Colorectal Cancer. <i>Annals of Surgical Oncology</i> , 2001, 8, 729-740.	1.5	105
32	PTP1B controls non-mitochondrial oxygen consumption by regulating RNF213 to promote tumour survival during hypoxia. <i>Nature Cell Biology</i> , 2016, 18, 803-813.	10.3	95
33	Î±2HS-glycoprotein, an Antagonist of Transforming Growth Factor Î², Inhibits Intestinal Tumor Progression. <i>Cancer Research</i> , 2004, 64, 6402-6409.	0.9	92
34	Plk4 is required for cytokinesis and maintenance of chromosomal stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6888-6893.	7.1	91
35	The lipid composition of autophagic vacuoles regulates expression of multilamellar bodies. <i>Journal of Cell Science</i> , 2005, 118, 1991-2003.	2.0	86
36	UDP-N-acetylglucosamine:Î±-6-d-mannoside Î²1,6 N-acetylglucosaminyltransferase V (Mgat5) deficient mice. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002, 1573, 414-422.	2.4	85

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37	Metabolic Reprogramming by Hexosamine Biosynthetic and Golgi N-Glycan Branching Pathways. <i>Scientific Reports</i> , 2016, 6, 23043.	3.3	84
38	Galectin-3 Protein Regulates Mobility of N-cadherin and GM1 Ganglioside at Cell-Cell Junctions of Mammary Carcinoma Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 32940-32952.	3.4	83
39	Evidence that $\hat{1}^2$ 1-6 branched Asn-linked oligosaccharides on metastatic tumor cells facilitate invasion of basement membranes. <i>International Journal of Cancer</i> , 1989, 44, 685-690.	5.1	79
40	Systematic mapping of genetic interactions for de novo fatty acid synthesis identifies C12orf49 as a regulator of lipid metabolism. <i>Nature Metabolism</i> , 2020, 2, 499-513.	11.9	72
41	Tumor progression in metastasis: an experimental approach using lectin resistant tumor variants. <i>Cancer and Metastasis Reviews</i> , 1982, 1, 99-140.	5.9	69
42	Sak/Plk4 and mitotic fidelity. <i>Oncogene</i> , 2005, 24, 306-312.	5.9	68
43	Tumor Cell Pseudopodial Protrusions. <i>Journal of Biological Chemistry</i> , 2005, 280, 30564-30573.	3.4	67
44	Nucleolar release of Hand1 acts as a molecular switch to determine cell fate. <i>Nature Cell Biology</i> , 2007, 9, 1131-1141.	10.3	67
45	The eggshell is required for meiotic fidelity, polar-body extrusion and polarization of the <i>C. elegans</i> embryo. <i>BMC Biology</i> , 2006, 4, 35.	3.8	63
46	Targeted metabolomics in cultured cells and tissues by mass spectrometry: Method development and validation. <i>Analytica Chimica Acta</i> , 2014, 845, 53-61.	5.4	61
47	Eggshell Chitin and Chitin-Interacting Proteins Prevent Polyspermy in <i>C. elegans</i> . <i>Current Biology</i> , 2010, 20, 1932-1937.	3.9	60
48	Probing the Hexosamine Biosynthetic Pathway in Human Tumor Cells by Multitargeted Tandem Mass Spectrometry. <i>ACS Chemical Biology</i> , 2013, 8, 2053-2062.	3.4	59
49	Caveolin-1 regulation of dynamin-dependent, raft-mediated endocytosis of cholera toxin B subunit occurs independently of caveolae. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 3218-3225.	3.6	57
50	Inhibition of the Sodium/Potassium ATPase Impairs N-Glycan Expression and Function. <i>Cancer Research</i> , 2008, 68, 6688-6697.	0.9	54
51	Density-dependent Lectin-Glycan Interactions as a Paradigm for Conditional Regulation by Posttranslational Modifications. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 913-920.	3.8	54
52	The GATOR-Rag GTPase pathway inhibits mTORC1 activation by lysosome-derived amino acids. <i>Science</i> , 2020, 370, 351-356.	12.6	53
53	Asn-linked oligosaccharides in lectin-resistant tumor-cell mutants with varying metastatic potential. <i>FEBS Journal</i> , 1986, 161, 359-373.	0.2	52
54	Complex N-Glycan and Metabolic Control in Tumor Cells. <i>Cancer Research</i> , 2007, 67, 9771-9780.	0.9	51

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55	A prospective randomized study comparing fibrin sealant to manual compression for the treatment of anastomotic suture-hole bleeding in expanded polytetrafluoroethylene grafts. <i>Journal of Vascular Surgery</i> , 2012, 56, 134-141.	1.1	51
56	Metabolic homeostasis and tissue renewal are dependent on $\beta$ 1,6GlcNAc-branched N-glycans. <i>Glycobiology</i> , 2007, 17, 828-837.	2.5	47
57	Suppression of Cancer Progression by MGAT1 shRNA Knockdown. <i>PLoS ONE</i> , 2012, 7, e43721.	2.5	47
58	Altered expression of leucocyte sialoglycoprotein in Wiskott-Aldrich syndrome is associated with a specific defect in O-glycosylation. <i>Biochemistry and Cell Biology</i> , 1989, 67, 503-509.	2.0	45
59	Complex asparagine-linked oligosaccharides in Mgat1-null embryos. <i>Glycobiology</i> , 1995, 5, 535-543.	2.5	45
60	The eggshell in the <i>C. elegans</i> oocyte-to-embryo transition. <i>Genesis</i> , 2012, 50, 333-349.	1.6	45
61	N-Glycan Remodeling on Glucagon Receptor Is an Effector of Nutrient Sensing by the Hexosamine Biosynthesis Pathway. <i>Journal of Biological Chemistry</i> , 2014, 289, 15927-15941.	3.4	45
62	Biological implications of SNPs in signal peptide domains of human proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 394-403.	2.6	44
63	High-throughput lectin magnetic bead array-coupled tandem mass spectrometry for glycoprotein biomarker discovery. <i>Electrophoresis</i> , 2011, 32, 3564-3575.	2.4	40
64	The extent of poly lactosamine glycosylation of MDCK LAMP-2 is determined by its Golgi residence time. <i>Glycobiology</i> , 1998, 8, 947-953.	2.5	39
65	Golgi N-glycan branching N-acetylglucosaminyltransferases I, V and VI promote nutrient uptake and metabolism. <i>Glycobiology</i> , 2015, 25, 225-240.	2.5	39
66	Mgat5 and Pten interact to regulate cell growth and polarity. <i>Glycobiology</i> , 2007, 17, 767-773.	2.5	38
67	A high-content chemical screen identifies ellipticine as a modulator of p53 nuclear localization. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2008, 13, 413-422.	4.9	38
68	The Adaptor Protein p66Shc Inhibits mTOR-Dependent Anabolic Metabolism. <i>Science Signaling</i> , 2014, 7, ra17.	3.6	37
69	Modification of CD43 and other lymphocyte O-glycoproteins by core 2 N-acetylglucosaminyltransferase. <i>Glycobiology</i> , 1997, 7, 129-136.	2.5	36
70	The <i>Caenorhabditis elegans</i> Gene, gly-2, Can Rescue the N-Acetylglucosaminyltransferase V Mutation of Lec4 Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 22829-22838.	3.4	34
71	Clioma stem cells invasive phenotype at optimal stiffness is driven by MGAT5 dependent mechanosensing. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021, 40, 139.	8.6	33
72	Dynamic Changes in Clinical Features and Cytokine/Chemokine Responses in Sars Patients Treated with Interferon Alfacon-1 plus Corticosteroids. <i>Antiviral Therapy</i> , 2005, 10, 263-275.	1.0	31

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73	Carbonyloxy analogs of the anti-metastatic drug swainsonine. <i>Biochemical Pharmacology</i> , 1993, 46, 1459-1466.	4.4	29
74	Minimal catalytic domain of N-acetylglucosaminyltransferase V. <i>Glycobiology</i> , 2000, 10, 595-599.	2.5	29
75	Integrative analysis of kinase networks in TRAIL-induced apoptosis provides a source of potential targets for combination therapy. <i>Science Signaling</i> , 2015, 8, rs3.	3.6	29
76	N-acetylglucosamine drives myelination by triggering oligodendrocyte precursor cell differentiation. <i>Journal of Biological Chemistry</i> , 2020, 295, 17413-17424.	3.4	29
77	Overexpression of core 2 N-acetylglucosaminyltransferase enhances cytokine actions and induces hypertrophic myocardium in transgenic mice. <i>FASEB Journal</i> , 1999, 13, 2329-2337.	0.5	28
78	Characterization of O-linked oligosaccharide biosynthesis in cultured cells using paranitrophenyl 1- $\beta$ -D-GalNAc as an acceptor. <i>Glycobiology</i> , 1991, 1, 425-433.	2.5	24
79	Mevalonate Pathway Inhibition Slows Breast Cancer Metastasis via Reduced N-glycosylation Abundance and Branching. <i>Cancer Research</i> , 2021, 81, 2625-2635.	0.9	24
80	A solid-phase glycosyltransferase assay for high-throughput screening in drug discovery research. <i>Glycoconjugate Journal</i> , 1999, 16, 607-615.	2.7	23
81	Many Light Touches Convey the Message. <i>Trends in Biochemical Sciences</i> , 2015, 40, 673-686.	7.5	23
82	N-linked glycosylation modulates the immunogenicity of recombinant human factor VIII in hemophilia A mice. <i>Haematologica</i> , 2018, 103, 1925-1936.	3.5	23
83	Inhibition of N-linked oligosaccharide processing in tumor cells is associated with enhanced tissue inhibitor of metalloproteinases (TIMP) gene expression. <i>International Journal of Cancer</i> , 1993, 53, 634-639.	5.1	22
84	Regulation of human monocyte proMMP-9 production by fetuin, an endogenous TGF- $\beta$ antagonist. <i>Journal of Cellular Physiology</i> , 2000, 185, 174-183.	4.1	21
85	N-linked oligosaccharide processing and autocrine stimulation of tumor cell proliferation. <i>Experimental Cell Research</i> , 1991, 192, 612-621.	2.6	20
86	Genetic defects in N-glycosylation and cellular diversity in mammals. <i>Current Opinion in Structural Biology</i> , 2001, 11, 601-607.	5.7	18
87	STAT1 and STAT3 splice form activation predicts host responses in mouse hepatitis virus type 3 infection. <i>Journal of Medical Virology</i> , 2003, 69, 306-312.	5.0	16
88	Genetic code asymmetry supports diversity through experimentation with posttranslational modifications. <i>Current Opinion in Chemical Biology</i> , 2017, 41, 1-11.	6.1	16
89	Overexpression of the 1- $\beta$ -2,6-Sialyltransferase, ST6Gal I, in a Low Metastatic Variant of a Murine Lymphoblastoid Cell Line Is Associated with Appearance of a Unique ST6Gal I mRNA. <i>Biochemical and Biophysical Research Communications</i> , 1999, 264, 619-621.	2.1	15
90	Sak kinase gene structure and transcriptional regulation. <i>Gene</i> , 2000, 241, 65-73.	2.2	15

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91	Association of a Marker of <i>N</i> -Acetylglucosamine With Progressive Multiple Sclerosis and Neurodegeneration. <i>JAMA Neurology</i> , 2021, 78, 842.	9.0	15
92	Encoding Asymmetry of the N-Glycosylation Motif Facilitates Glycoprotein Evolution. <i>PLoS ONE</i> , 2014, 9, e86088.	2.5	15
93	Double restriction in NK cell recognition is linked to transmethylation and can be triggered by asparagine-linked oligosaccharides on tumor cells. <i>Cellular Immunology</i> , 1987, 106, 223-233.	3.0	14
94	Letter to the Glyco-Forum. <i>Glycobiology</i> , 1993, 3, 91-93.	2.5	14
95	Mgat5 modulates the effect of early life stress on adult behavior and physical health in mice. <i>Behavioural Brain Research</i> , 2016, 312, 253-264.	2.2	14
96	Increasing cell permeability of N-acetylglucosamine via 6-acetylation enhances capacity to suppress T-helper 1 (TH1)/TH17 responses and autoimmunity. <i>PLoS ONE</i> , 2019, 14, e0214253.	2.5	13
97	Genome-scale identification of UDP-GlcNAc-dependent pathways. <i>Proteomics</i> , 2008, 8, 3294-3302.	2.2	12
98	Age-associated impairment of T cell immunity is linked to sex-dimorphic elevation of N-glycan branching. <i>Nature Aging</i> , 2022, 2, 231-242.	11.6	12
99	Constitutive expression and secretion of proteases in non-metastatic SP1 mammary carcinoma cells and its metastatic sublines. <i>International Journal of Cancer</i> , 1991, 48, 557-561.	5.1	11
100	Chemical Enhancers of Cytokine Signaling that Suppress Microfilament Turnover and Tumor Cell Growth. <i>Cancer Research</i> , 2006, 66, 3558-3566.	0.9	11
101	A coupled assay for UDP-GlcNAc:Gal <sup>1</sup> -3GalNAc-R <sup>1</sup> 21,6-N-acetylglucosaminyltransferase (GlcNAc to Tj ETQq1 1 0.784314 rgBT /Overlo	2.4	9
102	Galectins as Adaptors: Linking Glycosylation and Metabolism with Extracellular Cues. <i>Trends in Glycoscience and Glycotechnology</i> , 2018, 30, SE167-SE177.	0.1	9
103	Caveolin-1 Y14 phosphorylation suppresses tumor growth while promoting invasion. <i>Oncotarget</i> , 2019, 10, 6668-6677.	1.8	8
104	The directed migration of gonadal distal tip cells in <i>Caenorhabditis elegans</i> requires NGAT-1, a $\beta$ 1,4-N-acetylgalactosaminyltransferase enzyme. <i>PLoS ONE</i> , 2017, 12, e0183049.	2.5	7
105	A Homogeneous Cell-Based Assay to Identify N-Linked Carbohydrate Processing Inhibitors. <i>Analytical Biochemistry</i> , 2000, 280, 137-142.	2.4	6
106	<i>C. elegans</i> SUP-46, an HNRNPM family RNA-binding protein that prevents paternally-mediated epigenetic sterility. <i>BMC Biology</i> , 2017, 15, 61.	3.8	6
107	N-acetylglucosamine: more than a silent partner in insulin resistance. <i>Glycobiology</i> , 2017, 27, 595-598.	2.5	5
108	The UBR-1 ubiquitin ligase regulates glutamate metabolism to generate coordinated motor pattern in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2018, 14, e1007303.	3.5	5

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109	Ultracytochemical localization of 3 $\beta$ -hydroxy-steroid ferricyanide reductase activity in the fetal mouse ovary. Gamete Research, 1980, 3, 323-328.	1.7	3
110	Protein glycosylation in development and disease. , 0, .		3
111	Cytokine Sensitivity and N-glycan Processing Mutations. Methods in Enzymology, 2006, 417, 3-11.	1.0	2
112	Molecular and Metabolomic Investigation of Celecoxib Antiproliferative Activity in Mono-and Combination Therapy against Breast Cancer Cell Models. Anti-Cancer Agents in Medicinal Chemistry, 2022, 22, 1611-1621.	1.7	2
113	Glucosamine-6 Phosphate N-Acetyltransferase (GNPNAT1/GNA1). , 2014, , 1481-1488.		2
114	Comparative Expression of the Mitotic Regulators SAK and PLK in Colorectal Cancer. Annals of Surgical Oncology, 2001, 8, 729-740.	1.5	2
115	Differential Glycosylation Between Recombinant Factor VIII Produced in Baby Hamster Kidney and Chinese Hamster Ovary Cells Confers Differences in Immunogenicity in a Humanized Hemophilia $\beta$ Mouse Model. Blood, 2016, 128, 326-326.	1.4	1
116	A new method for the preparation of solid-phase immunoadsorbents. Analytical Biochemistry, 1982, 121, 83-90.	2.4	0
117	Incorporation of L-3H-fucose in the rete and ovary of the fetal mouse. Gamete Research, 1983, 7, 155-160.	1.7	0
118	Transmembrane Signaling That Is Coupled with Phospholipid Methylation in Natural Killer Lymphocyte-Mediated Cytotoxicity. Annals of the New York Academy of Sciences, 1987, 494, 126-128.	3.8	0
119	Letter to the Editor. Journal of Medical Virology, 2003, 71, 474-474.	5.0	0
120	In fond memory of Charles E. Warren. Glycobiology, 2005, 15, 23G-23G.	2.5	0
121	A novel role for the cell cycle regulator Polo-like Kinase 4 in cell migration and invasion. Journal of the American College of Surgeons, 2010, 211, S123.	0.5	0
122	Proximity-Dependent Sensors Reveal New Mechanisms of mTORC1 Activation by Amino Acids. FASEB Journal, 2021, 35, .	0.5	0