

Marc Pilon

List of Publications by Year in descending order

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65
papers

2,331
citations

236925

25
h-index

243625

44
g-index

70
all docs

70
docs citations

70
times ranked

2457
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring of lipid storage in <i>Caenorhabditis elegans</i> using coherent anti-Stokes Raman scattering (CARS) microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14658-14663.	7.1	287
2	Upregulation of bcl-2 by the Epstein-Barr virus latent membrane protein LMP1: a B-cell-specific response that is delayed relative to NF-kappa B activation and to induction of cell surface markers. Journal of Virology, 1994, 68, 5602-5612.	3.4	193
3	<i>C. elegans</i> feeding defective mutants have shorter body lengths and increased autophagy. , 2006, 6, 39.		150
4	The mitochondrial unfolded protein response activator ATFS-1 protects cells from inhibition of the mevalonate pathway. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5981-5986.	7.1	111
5	Effects of abscisic acid and analogues on the maturation of white spruce (<i>Picea glauca</i>) somatic embryos. Plant Science, 1988, 58, 77-84.	3.6	98
6	PAQR-2 Regulates Fatty Acid Desaturation during Cold Adaptation in <i>C. elegans</i> . PLoS Genetics, 2013, 9, e1003801.	3.5	96
7	Statins inhibit protein lipidation and induce the unfolded protein response in the non-sterol producing nematode <i>Caenorhabditis elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18285-18290.	7.1	84
8	Maternal and Zygotic Expression of a nanos-Class Gene in the Leech <i>Helobdella robusta</i> : Primordial Germ Cells Arise from Segmental Mesoderm. Developmental Biology, 2002, 245, 28-41.	2.0	71
9	Transient gene expression in electroporated <i>Picea glauca</i> protoplasts. Plant Cell Reports, 1988, 7, 481-484.	5.6	69
10	The effects of promoter on transient expression in conifer cell lines. Theoretical and Applied Genetics, 1990, 79, 353-359.	3.6	67
11	Revisiting the membrane-centric view of diabetes. Lipids in Health and Disease, 2016, 15, 167.	3.0	67
12	Factors affecting transient gene expression in electroporated black spruce (<i>Picea mariana</i>) and jack pine (<i>Pinus banksiana</i>) protoplasts. Theoretical and Applied Genetics, 1989, 78, 531-536.	3.6	63
13	AdipoR1 and AdipoR2 maintain membrane fluidity in most human cell types and independently of adiponectin. Journal of Lipid Research, 2019, 60, 995-1004.	4.2	57
14	The Adiponectin Receptor Homologs in <i>C. elegans</i> Promote Energy Utilization and Homeostasis. PLoS ONE, 2011, 6, e21343.	2.5	53
15	<i>Caenorhabditis elegans</i> PAQR-2 and IGLR-2 Protect against Glucose Toxicity by Modulating Membrane Lipid Composition. PLoS Genetics, 2016, 12, e1005982.	3.5	53
16	Control of membrane lipid homeostasis by lipid-bilayer associated sensors: A mechanism conserved from bacteria to humans. Progress in Lipid Research, 2019, 76, 100996.	11.6	48
17	The adiponectin receptor AdipoR2 and its <i>Caenorhabditis elegans</i> homolog PAQR-2 prevent membrane rigidification by exogenous saturated fatty acids. PLoS Genetics, 2017, 13, e1007004.	3.5	47
18	The Diabetes Autoantigen ICA69 and Its <i>Caenorhabditis elegans</i> Homologue, <i>ric-19</i> , Are Conserved Regulators of Neuroendocrine Secretion. Molecular Biology of the Cell, 2000, 11, 3277-3288.	2.1	40

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19	The mevalonate pathway in <i>C. elegans</i> . <i>Lipids in Health and Disease</i> , 2011, 10, 243.	3.0	40
20	Membrane Fluidity Is Regulated Cell Nonautonomously by <i>Caenorhabditis elegans</i> PAQR-2 and Its Mammalian Homolog AdipoR2. <i>Genetics</i> , 2018, 210, 189-201.	2.9	40
21	Membrane fluidity is regulated by the <i>C. elegans</i> transmembrane protein FLD-1 and its human homologs TLCDC1/2. <i>ELife</i> , 2018, 7, .	6.0	38
22	Developmental genetics of the <i>C. elegans</i> pharyngeal neurons NSML and NSMR. <i>BMC Developmental Biology</i> , 2008, 8, 38.	2.1	34
23	<i>pha-2</i> encodes the <i>C. elegans</i> ortholog of the homeodomain protein HEX and is required for the formation of the pharyngeal isthmus. <i>Developmental Biology</i> , 2004, 272, 403-418.	2.0	33
24	A Mutation in <i>Caenorhabditis elegans</i> NDUF-7 Activates the Mitochondrial Stress Response and Prolongs Lifespan via ROS and CED-4. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 1639-1648.	1.8	32
25	<i>C. elegans</i> <i>ten-1</i> is synthetic lethal with mutations in cytoskeleton regulators, and enhances many axon guidance defective mutants. <i>BMC Developmental Biology</i> , 2010, 10, 55.	2.1	31
26	Caloric Restriction and Autophagy in <i>Caenorhabditis elegans</i> . <i>Autophagy</i> , 2007, 3, 51-53.	9.1	27
27	ICA69null Nonobese Diabetic Mice Develop Diabetes, but Resist Disease Acceleration by Cyclophosphamide. <i>Journal of Immunology</i> , 2002, 168, 475-482.	0.8	26
28	A genetic analysis of axon guidance in the <i>C. elegans</i> pharynx. <i>Developmental Biology</i> , 2003, 260, 158-175.	2.0	24
29	Genetics of Extracellular Matrix Remodeling During Organ Growth Using the <i>Caenorhabditis elegans</i> Pharynx Model. <i>Genetics</i> , 2010, 186, 969-982.	2.9	22
30	A chemical screen to identify inducers of the mitochondrial unfolded protein response in <i>C. elegans</i> . <i>Worm</i> , 2015, 4, e1096490.	1.0	22
31	Evolutionarily conserved long-chain Acyl-CoA synthetases regulate membrane composition and fluidity. <i>ELife</i> , 2019, 8, .	6.0	22
32	A <i>Caenorhabditis elegans</i> model of the myosin heavy chain IIa E706R mutation. <i>Annals of Neurology</i> , 2005, 58, 442-448.	5.3	20
33	Loss of HMG-CoA Reductase in <i>C. elegans</i> Causes Defects in Protein Prenylation and Muscle Mitochondria. <i>PLoS ONE</i> , 2014, 9, e100033.	2.5	20
34	Paradigm shift: the primary function of the Adiponectin Receptors is to regulate cell membrane composition. <i>Lipids in Health and Disease</i> , 2021, 20, 43.	3.0	20
35	Dihydroxyacetone-induced death is accompanied by advanced glycation endproduct formation in selected proteins of <i>Saccharomyces cerevisiae</i> and <i>Caenorhabditis elegans</i> . <i>Proteomics</i> , 2007, 7, 3764-3774.	2.2	18
36	PAQR-2 may be a regulator of membrane fluidity during cold adaptation. <i>Worm</i> , 2013, 2, e27123.	1.0	15

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37	Leveraging the withered tail tip phenotype in <i>C. elegans</i> to identify proteins that influence membrane properties. <i>Worm</i> , 2016, 5, e1206171.	1.0	14
38	The <i>C. elegans</i> PAQR-2 and IGLR-2 membrane homeostasis proteins are uniquely essential for tolerating dietary saturated fats. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158883.	2.4	14
39	FRAP: A Powerful Method to Evaluate Membrane Fluidity in <i>Caenorhabditis elegans</i> . <i>Bio-protocol</i> , 2018, 8, e2913.	0.4	14
40	The twisted pharynx phenotype in <i>C. elegans</i> . <i>BMC Developmental Biology</i> , 2007, 7, 61.	2.1	13
41	Extensive transcription mis-regulation and membrane defects in AdipoR2-deficient cells challenged with saturated fatty acids. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158884.	2.4	13
42	A genetic titration of membrane composition in <i>Caenorhabditis elegans</i> reveals its importance for multiple cellular and physiological traits. <i>Genetics</i> , 2021, 219, .	2.9	13
43	Development of <i>Caenorhabditis elegans</i> pharynx, with emphasis on its nervous system. <i>Acta Pharmacologica Sinica</i> , 2005, 26, 396-404.	6.1	12
44	The <i>C. elegans</i> M3 neuron guides the growth cone of its sister cell M2 via the Kr ^{1/4} ppel-like zinc finger protein MNM-2. <i>Developmental Biology</i> , 2007, 311, 185-199.	2.0	12
45	Leveraging a gain-of-function allele of <i>Caenorhabditis elegans</i> paqr-1 to elucidate membrane homeostasis by PAQR proteins. <i>PLoS Genetics</i> , 2020, 16, e1008975.	3.5	11
46	Developmental genetics of the <i>Caenorhabditis elegans</i> pharynx. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2014, 3, 263-280.	5.9	10
47	Misexpression of acetylcholinesterases in the <i>C. elegans</i> pha-2 mutant accompanies ultrastructural defects in pharyngeal muscle cells. <i>Developmental Biology</i> , 2006, 297, 446-460.	2.0	9
48	Myosin Storage Myopathy in <i>C. elegans</i> and Human Cultured Muscle Cells. <i>PLoS ONE</i> , 2017, 12, e0170613.	2.5	9
49	Sustained Expression of the Novel EBV-Induced Zinc Finger Gene, ZNFEB, Is Critical for the Transition of B Lymphocyte Activation to Oncogenic Growth Transformation. <i>Journal of Immunology</i> , 2002, 168, 680-688.	0.8	8
50	Treatment with HIV-Protease Inhibitor Nelfinavir Identifies Membrane Lipid Composition and Fluidity as a Therapeutic Target in Advanced Multiple Myeloma. <i>Cancer Research</i> , 2021, 81, 4581-4593.	0.9	8
51	Hot water treatment prevents <i>Aphelenchoides besseyi</i> damage to <i>Polianthes tuberosa</i> crops in the Mekong Delta of Vietnam. <i>Crop Protection</i> , 2010, 29, 599-602.	2.1	7
52	Fishing lines, time-delayed guideposts, and other tricks used by developing pharyngeal neurons in <i>Caenorhabditis elegans</i> . <i>Developmental Dynamics</i> , 2008, 237, 2073-2080.	1.8	6
53	Palmitic acid causes increased dihydroceramide levels when desaturase expression is directly silenced or indirectly lowered by silencing AdipoR2. <i>Lipids in Health and Disease</i> , 2021, 20, 173.	3.0	6
54	The <i>Caenorhabditis elegans</i> homolog of human copper chaperone Atox1, CUC-1, aids in distal tip cell migration. <i>BioMetals</i> , 2020, 33, 147-157.	4.1	3

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55	Early events leading to fate decisions during leech embryogenesis. <i>Seminars in Cell and Developmental Biology</i> , 1997, 8, 351-358.	5.0	2
56	CARS microscopy for the monitoring of lipid storage in <i>C. elegans</i> . , 2008, , .		1
57	A small molecule screen for paqr-2 suppressors identifies Tyloxapol as a membrane fluidizer for <i>C. elegans</i> and mammalian cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183959.	2.6	1
58	The amazing world of nematodes. <i>Trends in Parasitology</i> , 2005, 21, 309-310.	3.3	0
59	CARS microscopy for the monitoring of fat deposition mechanisms in a living organism. , 2006, , .		0
60	The gene <i>ten-1</i> contributes to axon regeneration accuracy following femtosecond laser axotomy in <i>C. elegans</i> . <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
61	Nelfinavir Overcomes Proteasome Inhibitor Resistance in Multiple Myeloma By Modulating Membrane Lipid Bilayer Composition and Fluidity. <i>Blood</i> , 2020, 136, 11-11.	1.4	0
62	Title is missing!. , 2020, 16, e1008975.		0
63	Title is missing!. , 2020, 16, e1008975.		0
64	Title is missing!. , 2020, 16, e1008975.		0
65	Title is missing!. , 2020, 16, e1008975.		0