

Teymuras V Kurzchalia

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3201552/publications.pdf>

Version: 2024-02-01

75
papers

10,766
citations

71102

41
h-index

74163

75
g-index

83
all docs

83
docs citations

83
times ranked

12671
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipid extraction by methyl-tert-butyl ether for high-throughput lipidomics. <i>Journal of Lipid Research</i> , 2008, 49, 1137-1146.	4.2	1,801
2	Loss of Caveolae, Vascular Dysfunction, and Pulmonary Defects in Caveolin-1 Gene-Disrupted Mice. <i>Science</i> , 2001, 293, 2449-2452.	12.6	1,414
3	Vascular Endothelial Growth Factor Induces Endothelial Fenestrations In Vitro. <i>Journal of Cell Biology</i> , 1998, 140, 947-959.	5.2	580
4	Membrane microdomains and caveolae. <i>Current Opinion in Cell Biology</i> , 1999, 11, 424-431.	5.4	547
5	Microdomains of GPI-anchored proteins in living cells revealed by crosslinking. <i>Nature</i> , 1998, 394, 802-805.	27.8	524
6	Clathrin- and caveolin-1-independent endocytosis. <i>Journal of Cell Biology</i> , 2005, 168, 477-488.	5.2	399
7	Ultrastructural identification of uncoated caveolin-independent early endocytic vehicles. <i>Journal of Cell Biology</i> , 2005, 168, 465-476.	5.2	385
8	From The Cover: Sterol structure determines the separation of phases and the curvature of the liquid-ordered phase in model membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3272-3277.	7.1	381
9	Direct evidence for the role of caveolin-1 and caveolae in mechanotransduction and remodeling of blood vessels. <i>Journal of Clinical Investigation</i> , 2006, 116, 1284-1291.	8.2	318
10	A signal sequence receptor in the endoplasmic reticulum membrane. <i>Nature</i> , 1987, 328, 830-833.	27.8	304
11	Lipid Profiling by Multiple Precursor and Neutral Loss Scanning Driven by the Data-Dependent Acquisition. <i>Analytical Chemistry</i> , 2006, 78, 585-595.	6.5	272
12	Caveolin-1 Is Essential for Liver Regeneration. <i>Science</i> , 2006, 313, 1628-1632.	12.6	235
13	Top-Down Lipidomic Screens by Multivariate Analysis of High-Resolution Survey Mass Spectra. <i>Analytical Chemistry</i> , 2007, 79, 4083-4093.	6.5	179
14	Oligomerization of VIP21-caveolin in vitro is stabilized by long chain fatty acylation or cholesterol. <i>FEBS Letters</i> , 1996, 388, 143-149.	2.8	173
15	Why do worms need cholesterol?. <i>Nature Cell Biology</i> , 2003, 5, 684-688.	10.3	169
16	Distribution and Transport of Cholesterol in <i>Caenorhabditis elegans</i> . <i>Molecular Biology of the Cell</i> , 2001, 12, 1725-1736.	2.1	160
17	Cholesterol-Induced Caveolin Targeting to Lipid Droplets in Adipocytes: A Role for Caveolar Endocytosis. <i>Traffic</i> , 2006, 7, 549-561.	2.7	158
18	Mammalian homologues of <i>C. elegans</i> PAR-1 are asymmetrically localized in epithelial cells and may influence their polarity. <i>Current Biology</i> , 1997, 7, 603-606.	3.9	156

#	ARTICLE	IF	CITATIONS
19	Trehalose Renders the Dauer Larva of <i>Caenorhabditis elegans</i> Resistant to Extreme Desiccation. <i>Current Biology</i> , 2011, 21, 1331-1336.	3.9	149
20	Sterol-Derived Hormone(s) Controls Entry into Diapause in <i>Caenorhabditis elegans</i> by Consecutive Activation of DAF-12 and DAF-16. <i>PLoS Biology</i> , 2004, 2, e280.	5.6	142
21	Getting rid of caveolins: Phenotypes of caveolin-deficient animals. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2005, 1746, 322-333.	4.1	139
22	Survival strategies of a sterol auxotroph. <i>Development (Cambridge)</i> , 2010, 137, 3675-3685.	2.5	125
23	Caveolin Interacts with the Angiotensin II Type 1 Receptor during Exocytic Transport but Not at the Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2003, 278, 23738-23746.	3.4	110
24	Involvement of caveolin-1 in meiotic cell-cycle progression in <i>Caenorhabditis elegans</i> . <i>Nature Cell Biology</i> , 1999, 1, 127-129.	10.3	105
25	Human-Specific ARHGAP11B Acts in Mitochondria to Expand Neocortical Progenitors by Glutaminolysis. <i>Neuron</i> , 2020, 105, 867-881.e9.	8.1	101
26	Molecular Strategies of the <i>Caenorhabditis elegans</i> Dauer Larva to Survive Extreme Desiccation. <i>PLoS ONE</i> , 2013, 8, e82473.	2.5	96
27	Exogenous Administration of Gangliosides Displaces GPI-anchored Proteins from Lipid Microdomains in Living Cells. <i>Molecular Biology of the Cell</i> , 1999, 10, 3187-3196.	2.1	95
28	VIP21-Caveolin, a protein of the trans-Golgi network and caveolae. <i>FEBS Letters</i> , 1994, 346, 88-91.	2.8	86
29	LET-767 Is Required for the Production of Branched Chain and Long Chain Fatty Acids in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 17550-17560.	3.4	75
30	Cholesterol-dependent Lipid Assemblies Regulate the Activity of the Ecto-nucleotidase CD39. <i>Journal of Biological Chemistry</i> , 2005, 280, 26406-26414.	3.4	74
31	Photocrosslinking demonstrates proximity of a 34 kDa membrane protein to different portions of preprolactin during translocation through the endoplasmic reticulum. <i>FEBS Letters</i> , 1989, 257, 263-268.	2.8	66
32	Structure and biosynthesis of the signal-sequence receptor. <i>FEBS Journal</i> , 1990, 188, 439-445.	0.2	64
33	The glyoxylate shunt is essential for desiccation tolerance in <i>C. elegans</i> and budding yeast. <i>ELife</i> , 2016, 5, .	6.0	64
34	Requirement of sterols in the life cycle of the nematode <i>Caenorhabditis elegans</i> . <i>Seminars in Cell and Developmental Biology</i> , 2005, 16, 175-182.	5.0	63
35	Two cytochrome P450s in <i>Caenorhabditis elegans</i> are essential for the organization of eggshell, correct execution of meiosis and the polarization of embryo. <i>Mechanisms of Development</i> , 2009, 126, 382-393.	1.7	54
36	Structure of sterol aliphatic chains affects yeast cell shape and cell fusion during mating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4170-4175.	7.1	53

#	ARTICLE	IF	CITATIONS
37	Genome-scale single-cell mechanical phenotyping reveals disease-related genes involved in mitotic rounding. <i>Nature Communications</i> , 2017, 8, 1266.	12.8	52
38	tRNA-mediated labelling of proteins with biotin. A nonradioactive method for the detection of cell-free translation products. <i>FEBS Journal</i> , 1988, 172, 663-668.	0.2	49
39	Products of the Parkinson's disease-related glyoxalase DJ-1, D-lactate and glycolate, support mitochondrial membrane potential and neuronal survival. <i>Biology Open</i> , 2014, 3, 777-784.	1.2	49
40	Methylation of the Sterol Nucleus by STRM-1 Regulates Dauer Larva Formation in <i>Caenorhabditis elegans</i> . <i>Developmental Cell</i> , 2009, 16, 833-843.	7.0	48
41	Maradolipids: Diacyltrehalose Glycolipids Specific to Dauer Larva in <i>Caenorhabditis elegans</i> . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9430-9435.	13.8	47
42	A metabolic switch regulates the transition between growth and diapause in <i>C. elegans</i> . <i>BMC Biology</i> , 2020, 18, 31.	3.8	47
43	And still they are moving – Dynamic properties of caveolae. <i>FEBS Letters</i> , 1996, 389, 52-54.	2.8	39
44	The <i>C. elegans</i> dauer larva as a paradigm to study metabolic suppression and desiccation tolerance. <i>Planta</i> , 2015, 242, 389-396.	3.2	38
45	Systematic Screening for Novel Lipids by Shotgun Lipidomics. <i>Analytical Chemistry</i> , 2014, 86, 2703-2710.	6.5	37
46	Stereoselective synthesis of the hormonally active (25S)- Δ^7 -dafachronic acid, (25S)- Δ^4 -dafachronic acid, (25S)-dafachronic acid, and (25S)-cholestenoic acid. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 4293.	2.8	34
47	Integration of carbohydrate metabolism and redox state controls dauer larva formation in <i>Caenorhabditis elegans</i> . <i>Nature Communications</i> , 2015, 6, 8060.	12.8	34
48	Chapter 11 Probing the Molecular Environment of Translocating Polypeptide Chains by Cross-Linking. <i>Methods in Cell Biology</i> , 1991, 34, 241-262.	1.1	32
49	Endocannabinoids in <i>Caenorhabditis elegans</i> are essential for the mobilization of cholesterol from internal reserves. <i>Scientific Reports</i> , 2018, 8, 6398.	3.3	32
50	Synthesis and biological activity of the (25R)-cholesten-26-ic acids – ligands for the hormonal receptor DAF-12 in <i>Caenorhabditis elegans</i> . <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 909.	2.8	30
51	GTP interacts through its ribose and phosphate moieties with different subunits of the eukaryotic initiation factor eIF-2. <i>FEBS Letters</i> , 1989, 244, 323-327.	2.8	26
52	Synthesis Of Labeled Glycosyl Phosphatidyl Inositol (GPI) Anchors. <i>European Journal of Organic Chemistry</i> , 1999, 1999, 2563-2571.	2.4	24
53	Protein kinase C-mediated endothelial barrier regulation is caveolin-1-dependent. <i>Histochemistry and Cell Biology</i> , 2006, 126, 17-26.	1.7	24
54	Regio- and Stereospecific Synthesis of Cholesterol Derivatives and Their Hormonal Activity in <i>Caenorhabditis elegans</i> . <i>European Journal of Organic Chemistry</i> , 2006, 2006, 3687-3706.	2.4	24

#	ARTICLE	IF	CITATIONS
55	Steroid hormones controlling the life cycle of the nematode <i>Caenorhabditis elegans</i> : stereoselective synthesis and biology. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 739-750.	2.8	24
56	A wax ester promotes collective host finding in the nematode <i>Pristionchus pacificus</i> . <i>Nature Chemical Biology</i> , 2014, 10, 281-285.	8.0	23
57	Phosphorylated glycosphingolipids essential for cholesterol mobilization in <i>Caenorhabditis elegans</i> . <i>Nature Chemical Biology</i> , 2017, 13, 647-654.	8.0	23
58	Caveolin-1 deficiency alters plasma lipid and lipoprotein profiles in mice. <i>Biochemical and Biophysical Research Communications</i> , 2008, 367, 826-833.	2.1	20
59	The Role of Phospholipid Headgroup Composition and Trehalose in the Desiccation Tolerance of <i>Caenorhabditis elegans</i> . <i>Langmuir</i> , 2014, 30, 12897-12906.	3.5	19
60	Synthesis and Hormonal Activity of the (25 <i>S</i>)- Δ^26 -Cholesten-26- α -oic Acids – Potent Ligands for the DAF-12 Receptor in <i>Caenorhabditis elegans</i> . <i>European Journal of Organic Chemistry</i> , 2009, 2009, 3703-3714.	2.4	18
61	Stereoselective synthesis and hormonal activity of novel dafachronic acids and naturally occurring steroids isolated from corals. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 4159.	2.8	18
62	How worms survive desiccation. <i>Worm</i> , 2012, 1, 61-65.	1.0	17
63	CAVIN β regulates circadian period length and PER:CRY protein abundance and interactions. <i>EMBO Reports</i> , 2012, 13, 1138-1144.	4.5	17
64	NAD ⁺ Is a Food Component That Promotes Exit from Dauer Diapause in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2016, 11, e0167208.	2.5	17
65	<i>C. elegans</i> possess a general program to enter cryptobiosis that allows dauer larvae to survive different kinds of abiotic stress. <i>Scientific Reports</i> , 2020, 10, 13466.	3.3	15
66	Glycolate combats massive oxidative stress by restoring redox potential in <i>Caenorhabditis elegans</i> . <i>Communications Biology</i> , 2021, 4, 151.	4.4	14
67	Anthrax toxin rafts into cells. <i>Journal of Cell Biology</i> , 2003, 160, 295-296.	5.2	11
68	Exogenous ethanol induces a metabolic switch that prolongs the survival of <i>Caenorhabditis elegans</i> dauer larva and enhances its resistance to desiccation. <i>Aging Cell</i> , 2020, 19, e13214.	6.7	11
69	Long-Chain α -Ascarosylalkanedioles Are Constitutive Components of <i>Caenorhabditis elegans</i> but Do Not Induce Dauer Larva Formation. <i>Chemistry and Biodiversity</i> , 2010, 7, 2016-2022.	2.1	8
70	Signal recognition in protein translocation across the endoplasmic reticulum membrane. <i>Biochemical Society Transactions</i> , 1989, 17, 325-328.	3.4	7
71	4 β -Bromo-5 α -cholestan-3 β -ol and nor-5 α -cholestan-3 β -ol derivatives – stereoselective synthesis and hormonal activity in <i>Caenorhabditis elegans</i> . <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2303.	2.8	6
72	Quantitative imaging of <i>Caenorhabditis elegans</i> dauer larvae during cryptobiotic transition. <i>Biophysical Journal</i> , 2022, 121, 1219-1229.	0.5	6

#	ARTICLE	IF	CITATIONS
73	Improved Synthesis of an Ascaroside Pheromone Controlling Dauer Larva Development in <i>Caenorhabditis elegans</i> . <i>Synthesis</i> , 2009, 2009, 3488-3492.	2.3	2
74	Synthesis of Ten Members of the Maradolipid Family; Novel Diacyltrehalose Glycolipids from <i>Caenorhabditis elegans</i> . <i>Synlett</i> , 2011, 2011, 2482-2486.	1.8	1
75	Stereoselective Synthesis of (25R)-Dafachronic Acids and (25R)-Cholestenoic Acid as Potential Ligands for the DAF-12 Receptor in <i>Caenorhabditis elegans</i> . <i>Synlett</i> , 2008, 2008, 1965-1968.	1.8	0