

Carl S Thummel

List of Publications by Year in descending order

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103
papers

19,040
citations

23500

58
h-index

31759

101
g-index

184
all docs

184
docs citations

184
times ranked

14099
citing authors

#	ARTICLE	IF	CITATIONS
1	The nuclear receptor superfamily: The second decade. <i>Cell</i> , 1995, 83, 835-839.	13.5	6,478
2	A Mitochondrial Pyruvate Carrier Required for Pyruvate Uptake in Yeast, <i>Drosophila</i> , and Humans. <i>Science</i> , 2012, 337, 96-100.	6.0	694
3	Vectors for <i>Drosophila</i> P-element-mediated transformation and tissue culture transfection. <i>Gene</i> , 1988, 74, 445-456.	1.0	599
4	Nuclear receptors – a perspective from <i>Drosophila</i> . <i>Nature Reviews Genetics</i> , 2005, 6, 311-323.	7.7	501
5	Flies on steroids – <i>Drosophila</i> metamorphosis and the mechanisms of steroid hormone action. <i>Trends in Genetics</i> , 1996, 12, 306-310.	2.9	451
6	The <i>Drosophila</i> 74EF early puff contains E74, a complex ecdysone-inducible gene that encodes two ets-related proteins. <i>Cell</i> , 1990, 61, 85-99.	13.5	425
7	Diabetic Larvae and Obese Flies – Emerging Studies of Metabolism in <i>Drosophila</i> . <i>Cell Metabolism</i> , 2007, 6, 257-266.	7.2	421
8	Prothoracicotropic Hormone Regulates Developmental Timing and Body Size in <i>Drosophila</i> . <i>Developmental Cell</i> , 2007, 13, 857-871.	3.1	388
9	Methods for studying metabolism in <i>Drosophila</i> . <i>Methods</i> , 2014, 68, 105-115.	1.9	363
10	From embryogenesis to metamorphosis: The regulation and function of <i>drosophila</i> nuclear receptor superfamily members. <i>Cell</i> , 1995, 83, 871-877.	13.5	338
11	Molecular Mechanisms of Developmental Timing in <i>C. elegans</i> and <i>Drosophila</i> . <i>Developmental Cell</i> , 2001, 1, 453-465.	3.1	290
12	A Steroid-Triggered Transcriptional Hierarchy Controls Salivary Gland Cell Death during <i>Drosophila</i> Metamorphosis. <i>Molecular Cell</i> , 2000, 5, 445-455.	4.5	264
13	Spatial and temporal patterns of E74 transcription during <i>Drosophila</i> development. <i>Cell</i> , 1990, 61, 101-111.	13.5	261
14	Molecular Analysis of the Initiation of Insect Metamorphosis: A Comparative Study of <i>Drosophila</i> Ecdysteroid-Regulated Transcription. <i>Developmental Biology</i> , 1993, 160, 388-404.	0.9	260
15	Transcriptional regulation of xenobiotic detoxification in <i>Drosophila</i> . <i>Genes and Development</i> , 2011, 25, 1796-1806.	2.7	242
16	Control of intestinal stem cell function and proliferation by mitochondrial pyruvate metabolism. <i>Nature Cell Biology</i> , 2017, 19, 1027-1036.	4.6	238
17	The <i>Drosophila</i> FTZ-F1 Orphan Nuclear Receptor Provides Competence for Stage-Specific Responses to the Steroid Hormone Ecdysone. <i>Molecular Cell</i> , 1999, 3, 143-149.	4.5	237
18	The <i>Drosophila</i> Estrogen-Related Receptor Directs a Metabolic Switch that Supports Developmental Growth. <i>Cell Metabolism</i> , 2011, 13, 139-148.	7.2	234

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19	The Drosophila Orphan Nuclear Receptor DHR38 Mediates an Atypical Ecdysteroid Signaling Pathway. <i>Cell</i> , 2003, 113, 731-742.	13.5	226
20	Drosophila HNF4 Regulates Lipid Mobilization and β -Oxidation. <i>Cell Metabolism</i> , 2009, 9, 228-239.	7.2	222
21	A molecular mechanism for the stage specificity of the Drosophila prepupal genetic response to ecdysone. <i>Cell</i> , 1994, 79, 607-615.	13.5	214
22	Molecular interactions within the ecdysone regulatory hierarchy: DNA binding properties of the Drosophila ecdysone-inducible E74A protein. <i>Cell</i> , 1990, 63, 47-61.	13.5	211
23	Coordinating Growth and Maturation " Insights from Drosophila. <i>Current Biology</i> , 2011, 21, R750-R757.	1.8	196
24	E93 Directs Steroid-Trigged Programmed Cell Death in Drosophila. <i>Molecular Cell</i> , 2000, 6, 433-443.	4.5	181
25	The DHR96 nuclear receptor regulates xenobiotic responses in Drosophila. <i>Cell Metabolism</i> , 2006, 4, 37-48.	7.2	175
26	Ecdysteroid Regulation and DNA Binding Properties of Drosophila Nuclear Hormone Receptor Superfamily Members. <i>Developmental Biology</i> , 1995, 168, 490-502.	0.9	168
27	Mechanisms of steroid-triggered programmed cell death in Drosophila. <i>Seminars in Cell and Developmental Biology</i> , 2005, 16, 237-243.	2.3	165
28	Temporal Profiles of Nuclear Receptor Gene Expression Reveal Coordinate Transcriptional Responses during Drosophila Development. <i>Molecular Endocrinology</i> , 2003, 17, 2125-2137.	3.7	164
29	Loss of the Ecdysteroid-Inducible E75A Orphan Nuclear Receptor Uncouples Molting from Metamorphosis in Drosophila. <i>Developmental Cell</i> , 2002, 3, 209-220.	3.1	155
30	Ecdysone-regulated puff genes 2000. <i>Insect Biochemistry and Molecular Biology</i> , 2002, 32, 113-120.	1.2	155
31	Essential Roles for Ecdysone Signaling During Drosophila Mid-Embryonic Development. <i>Science</i> , 2003, 301, 1911-1914.	6.0	155
32	Steroid Regulation of Postembryonic Development and Reproduction in Drosophila. <i>Trends in Endocrinology and Metabolism</i> , 2000, 11, 276-280.	3.1	149
33	The Drosophila E93 Gene from the 93F Early Puff Displays Stage- and Tissue-Specific Regulation by 20-Hydroxyecdysone. <i>Developmental Biology</i> , 1995, 171, 85-97.	0.9	142
34	Steroid signaling in plants and insects---common themes, different pathways. <i>Genes and Development</i> , 2002, 16, 3113-3129.	2.7	142
35	Inducible expression of double-stranded RNA directs specific genetic interference in Drosophila. <i>Current Biology</i> , 2000, 10, 957-963.	1.8	137
36	The DHR96 Nuclear Receptor Controls Triacylglycerol Homeostasis in Drosophila. <i>Cell Metabolism</i> , 2009, 10, 481-490.	7.2	128

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37	Chapter 29 Methods for Quantitative Analysis of Transcription in Larvae and Prepupae. <i>Methods in Cell Biology</i> , 1994, 44, 565-573.	0.5	119
38	DHR3 Is Required for the Prepupalâ€Pupal Transition and Differentiation of Adult Structures during <i>Drosophila</i> Metamorphosis. <i>Developmental Biology</i> , 1999, 212, 204-216.	0.9	118
39	The <i>Drosophila</i> 78C early late puff contains E78, an ecdysone-inducible gene that encodes a novel member of the nuclear hormone receptor superfamily. <i>Cell</i> , 1993, 75, 307-320.	13.5	114
40	Coordinated Metabolic Transitions During <i>Drosophila</i> Embryogenesis and the Onset of Aerobic Glycolysis. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 839-850.	0.8	112
41	Coordinate regulation of small temporal RNAs at the onset of <i>Drosophila</i> metamorphosis. <i>Developmental Biology</i> , 2003, 259, 1-8.	0.9	110
42	Regulation of Tumor Initiation by the Mitochondrial Pyruvate Carrier. <i>Cell Metabolism</i> , 2020, 31, 284-300.e7.	7.2	103
43	The Ecdysone-Induced DHR4 Orphan Nuclear Receptor Coordinates Growth and Maturation in <i>Drosophila</i> . <i>Cell</i> , 2005, 121, 773-784.	13.5	102
44	Constitutive activation of the Nrf2/Keap1 pathway in insecticide-resistant strains of <i>Drosophila</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 1116-1124.	1.2	102
45	Expression of SV40 T antigen under control of adenovirus promoters. <i>Cell</i> , 1981, 23, 825-836.	13.5	100
46	The LYR Factors SDHAF1 and SDHAF3 Mediate Maturation of the Iron-Sulfur Subunit of Succinate Dehydrogenase. <i>Cell Metabolism</i> , 2014, 20, 253-266.	7.2	96
47	The <i>Drosophila</i> DHR96 nuclear receptor binds cholesterol and regulates cholesterol homeostasis. <i>Genes and Development</i> , 2009, 23, 2711-2716.	2.7	94
48	Dynamic regulation of <i>Drosophila</i> nuclear receptor activity in vivo. <i>Development (Cambridge)</i> , 2006, 133, 3549-3562.	1.2	91
49	A balance between the diap1 death inhibitor and reaper and hid death inducers controls steroid-triggered cell death in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8022-8027.	3.3	89
50	Coordination of Triacylglycerol and Cholesterol Homeostasis by DHR96 and the <i>Drosophila</i> LipA Homolog magro. <i>Cell Metabolism</i> , 2012, 15, 122-127.	7.2	89
51	SDHAF4 Promotes Mitochondrial Succinate Dehydrogenase Activity and Prevents Neurodegeneration. <i>Cell Metabolism</i> , 2014, 20, 241-252.	7.2	88
52	Translational control of SV40 T antigen expressed from the adenovirus late promoter. <i>Cell</i> , 1983, 33, 455-464.	13.5	87
53	The <i>Drosophila</i> HNF4 nuclear receptor promotes glucose-stimulated insulin secretion and mitochondrial function in adults. <i>ELife</i> , 2016, 5, .	2.8	78
54	The <i>Drosophila</i> nuclear receptors DHR3 and $\hat{1}$ FTZ-F1 control overlapping developmental responses in late embryos. <i>Development (Cambridge)</i> , 2010, 137, 123-131.	1.2	77

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55	Isolation and characterization of five <i>Drosophila</i> genes that encode an ets-related DNA binding domain. <i>Developmental Biology</i> , 1992, 151, 176-191.	0.9	74
56	Steroid-triggered death by autophagy. <i>BioEssays</i> , 2001, 23, 677-682.	1.2	68
57	Spatial patterns of ecdysteroid receptor activation during the onset of <i>Drosophila</i> metamorphosis. <i>Development (Cambridge)</i> , 2002, 129, 1739-1750.	1.2	66
58	Puffs and gene regulation ? molecular insights into the <i>Drosophila</i> ecdysone regulatory hierarchy. <i>BioEssays</i> , 1990, 12, 561-568.	1.2	63
59	The DHR78 Nuclear Receptor Is Required for Ecdysteroid Signaling during the Onset of <i>Drosophila</i> Metamorphosis. <i>Cell</i> , 1998, 93, 543-555.	13.5	60
60	Dueling orphans-interacting nuclear receptors coordinate <i>Drosophila</i> metamorphosis. <i>BioEssays</i> , 1997, 19, 669-672.	1.2	57
61	Transcriptional activation of the <i>Drosophila</i> ecdysone receptor by insect and plant ecdysteroids. <i>Insect Biochemistry and Molecular Biology</i> , 2000, 30, 1037-1043.	1.2	57
62	The Ecdysone Regulatory Pathway Controls Wing Morphogenesis and Integrin Expression during <i>Drosophila</i> Metamorphosis. <i>Developmental Biology</i> , 2000, 220, 211-224.	0.9	55
63	rigor mortis encodes a novel nuclear receptor interacting protein required for ecdysone signaling during <i>Drosophila</i> larval development. <i>Development (Cambridge)</i> , 2004, 131, 25-36.	1.2	55
64	The Circadian Clock, Light, and Cryptochrome Regulate Feeding and Metabolism in <i>Drosophila</i> . <i>Journal of Biological Rhythms</i> , 2011, 26, 497-506.	1.4	55
65	Specific transcriptional responses to juvenile hormone and ecdysone in <i>Drosophila</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 570-578.	1.2	54
66	Metabolomic Studies in <i>Drosophila</i> . <i>Genetics</i> , 2017, 206, 1169-1185.	1.2	51
67	<i>Drosophila</i> HNF4 Directs a Switch in Lipid Metabolism that Supports the Transition to Adulthood. <i>Developmental Cell</i> , 2019, 48, 200-214.e6.	3.1	51
68	The <i>Drosophila</i> NR4A Nuclear Receptor DHR38 Regulates Carbohydrate Metabolism and Glycogen Storage. <i>Molecular Endocrinology</i> , 2011, 25, 83-91.	3.7	50
69	Molecular Characterization of the 71E Late Puff in <i>Drosophila melanogaster</i> Reveals a Family of Novel Genes. <i>Journal of Molecular Biology</i> , 1996, 255, 387-400.	2.0	49
70	GFP in living animals reveals dynamic developmental responses to ecdysone during <i>drosophila</i> metamorphosis. Supplementary data for this article are available on Science Direct (http://www.sciencedirect.com) and on the author's web site (http://thummel.genetics.utah.edu/).. <i>Developmental Biology</i> , 2003, 256, 389-402.	0.9	47
71	Down-regulation of inhibitor of apoptosis levels provides competence for steroid-triggered cell death. <i>Journal of Cell Biology</i> , 2007, 178, 85-92.	2.3	41
72	Epigenetic inheritance of metabolic state. <i>Current Opinion in Genetics and Development</i> , 2014, 27, 43-47.	1.5	38

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73	Sir2 Acts through Hepatocyte Nuclear Factor 4 to maintain insulin Signaling and Metabolic Homeostasis in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2016, 12, e1005978.	1.5	37
74	An ancestral role for the mitochondrial pyruvate carrier in glucose-stimulated insulin secretion. <i>Molecular Metabolism</i> , 2016, 5, 602-614.	3.0	36
75	<i>Drosophila</i> estrogen-related receptor directs a transcriptional switch that supports adult glycolysis and lipogenesis. <i>Genes and Development</i> , 2020, 34, 701-714.	2.7	35
76	Genetic Modifier Screens in <i>Drosophila</i> Demonstrate a Role for Rho1 Signaling in Ecdysone-Triggered Imaginal Disc Morphogenesis. <i>Genetics</i> , 2003, 165, 1397-1415.	1.2	34
77	A Genetic Screen Identifies New Regulators of Steroid-Triggered Programmed Cell Death in <i>Drosophila</i> . <i>Genetics</i> , 2008, 180, 269-281.	1.2	32
78	Indicted: Worms Caught using Steroids. <i>Cell</i> , 2006, 124, 1137-1140.	13.5	31
79	<i>Drosophila</i> DHR38 nuclear receptor is required for adult cuticle integrity at eclosion. <i>Developmental Dynamics</i> , 2009, 238, 701-707.	0.8	31
80	<i>Med24</i> and <i>Mdh2</i> are required for <i>Drosophila</i> larval salivary gland cell death. <i>Developmental Dynamics</i> , 2010, 239, 954-964.	0.8	29
81	DEVELOPMENTAL BIOLOGY: Enhanced: Less Steroids Make Bigger Flies. <i>Science</i> , 2005, 310, 630-631.	6.0	25
82	Developmental Timing: let-7 Function Conserved through Evolution. <i>Current Biology</i> , 2008, 18, R707-R708.	1.8	24
83	Genetic Analysis of the <i>Drosophila</i> 63F Early Puff: Characterization of Mutations in E63-1 and maggie, a Putative Tom22. <i>Genetics</i> , 2000, 156, 229-244.	1.2	20
84	Functional interactions between the Moses corepressor and DHR78 nuclear receptor regulate growth in <i>Drosophila</i> . <i>Genes and Development</i> , 2007, 21, 450-464.	2.7	18
85	<i>dTrf2</i> is required for transcriptional and developmental responses to ecdysone during <i>Drosophila</i> metamorphosis. <i>Developmental Dynamics</i> , 2007, 236, 3173-3179.	0.8	18
86	Parental obesity leads to metabolic changes in the F2 generation in <i>Drosophila</i> . <i>Molecular Metabolism</i> , 2017, 6, 631-639.	3.0	18
87	An Enhancer Trap Screen for Ecdysone-Inducible Genes Required for <i>Drosophila</i> Adult Leg Morphogenesis. <i>Genetics</i> , 2000, 156, 1765-1776.	1.2	18
88	For Intestinal Homeostasis, You Are What You Eat. <i>Developmental Cell</i> , 2018, 47, 1-2.	3.1	16
89	Regulation of <i>Drosophila</i> Intestinal Stem Cell Proliferation by Enterocyte Mitochondrial Pyruvate Metabolism. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 3623-3630.	0.8	14
90	Essential roles for the Dhr78 orphan nuclear receptor during molting of the <i>Drosophila</i> tracheal system. <i>Insect Biochemistry and Molecular Biology</i> , 2003, 33, 1201-1209.	1.2	12

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91	Right time, right place: the temporal regulation of developmental gene expression. <i>Genes and Development</i> , 2017, 31, 847-848.	2.7	12
92	<i>Drosophila</i> E93 promotes adult development and suppresses larval responses to ecdysone during metamorphosis. <i>Developmental Biology</i> , 2022, 481, 104-115.	0.9	10
93	Powered by Gasâ€”A Ligand for a Fruit Fly Nuclear Receptor. <i>Cell</i> , 2005, 122, 151-153.	13.5	9
94	Functional analysis of Aarf domainâ€”containing kinase 1 in <i>Drosophila melanogaster</i> . <i>Developmental Dynamics</i> , 2019, 248, 762-770.	0.8	7
95	The <i> <i>Drosophila</i> </i> E78 nuclear receptor regulates dietary triglyceride uptake and systemic lipid levels. <i>Developmental Dynamics</i> , 2021, 250, 640-651.	0.8	7
96	Regulation of male fertility and accessory gland gene expression by the <i>Drosophila</i> HR39 nuclear receptor. <i>Developmental Biology</i> , 2021, 479, 51-60.	0.9	5
97	To die or not to dieâ€”a role for Fork head. <i>Journal of Cell Biology</i> , 2007, 176, 737-739.	2.3	4
98	Linking Nutrients to Growth through a Positive Feedback Loop. <i>Developmental Cell</i> , 2015, 35, 265-266.	3.1	2
99	<i>Drosophila</i> Nuclear Receptors. , 2003, , 69-73.		2
100	Adult functions for the <i> <i>Drosophila</i> </i> DHR78 nuclear receptor. <i>Developmental Dynamics</i> , 2018, 247, 315-322.	0.8	1
101	The <i>Drosophila</i> Estrogenâ€”Related Receptor Coordinates Carbohydrate Metabolism with Developmental Growth. <i>FASEB Journal</i> , 2011, 25, .	0.2	1
102	Transcriptional Regulation of Xenobiotic Detoxification in <i>Drosophila</i> . <i>FASEB Journal</i> , 2012, 26, .	0.2	1
103	A direct-drive GFP reporter for studies of tracheal development in <i>Drosophila</i> . <i>Fly</i> , 2022, 16, 105-110.	0.9	0