

Richard W Carthew

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

12,188
citations

126907

33
h-index

133252

59
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74
all docs

74
docs citations

74
times ranked

14667
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of a geometric pattern of cell fates from tissue-scale mechanics in the <i>Drosophila</i> eye. <i>ELife</i> , 2022, 11, .	6.0	13
2	Invading viral DNA triggers dsRNA synthesis by RNA polymerase II to activate antiviral RNA interference in <i>Drosophila</i> . <i>Cell Reports</i> , 2022, 39, 110976.	6.4	12
3	Gene Regulation and Cellular Metabolism: An Essential Partnership. <i>Trends in Genetics</i> , 2021, 37, 389-400.	6.7	31
4	MicroRNA-mediated regulation of glucose and lipid metabolism. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 425-438.	37.0	154
5	Global constraints within the developmental program of the <i>Drosophila</i> wing. <i>ELife</i> , 2021, 10, .	6.0	18
6	MicroRNA miR-7 Regulates Secretion of Insulin-Like Peptides. <i>Endocrinology</i> , 2020, 161, .	2.8	14
7	The effector mechanism of siRNA spherical nucleic acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1312-1320.	7.1	34
8	Editorial overview: Taking measure of developing plants and animals. <i>Current Opinion in Genetics and Development</i> , 2020, 63, iii-v.	3.3	1
9	A pipeline for precise and efficient genome editing by sgRNA-Cas9 RNPs in <i>Drosophila</i> . <i>Fly</i> , 2020, 14, 34-48.	1.7	6
10	Fly-QMA: Automated analysis of mosaic imaginal discs in <i>Drosophila</i> . <i>PLoS Computational Biology</i> , 2020, 16, e1007406.	3.2	3
11	Ordered patterning of the sensory system is susceptible to stochastic features of gene expression. <i>ELife</i> , 2020, 9, .	6.0	14
12	The Wg and Dpp morphogens regulate gene expression by modulating the frequency of transcriptional bursts. <i>ELife</i> , 2020, 9, .	6.0	10
13	Fly-QMA: Automated analysis of mosaic imaginal discs in <i>Drosophila</i> . , 2020, 16, e1007406.		0
14	Fly-QMA: Automated analysis of mosaic imaginal discs in <i>Drosophila</i> . , 2020, 16, e1007406.		0
15	Fly-QMA: Automated analysis of mosaic imaginal discs in <i>Drosophila</i> . , 2020, 16, e1007406.		0
16	Fly-QMA: Automated analysis of mosaic imaginal discs in <i>Drosophila</i> . , 2020, 16, e1007406.		0
17	Repressive Gene Regulation Synchronizes Development with Cellular Metabolism. <i>Cell</i> , 2019, 178, 980-992.e17.	28.9	24
18	MicroRNA function in <i>Drosophila melanogaster</i> . <i>Seminars in Cell and Developmental Biology</i> , 2017, 65, 29-37.	5.0	50

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19	MicroRNAs Make a Difference in Cardiovascular Robustness. <i>Developmental Cell</i> , 2017, 40, 515-516.	7.0	3
20	Microprocessor Recruitment to Elongating RNA Polymerase II Is Required for Differential Expression of MicroRNAs. <i>Cell Reports</i> , 2017, 20, 3123-3134.	6.4	23
21	Spindle-E cycling between nuage and cytoplasm is controlled by Qin and PIWI proteins. <i>Journal of Cell Biology</i> , 2016, 213, 201-211.	5.2	15
22	Differential Masking of Natural Genetic Variation by miR-9a in <i>Drosophila</i> . <i>Genetics</i> , 2016, 202, 675-687.	2.9	12
23	Dynamics and heterogeneity of a fate determinant during transition towards cell differentiation. <i>ELife</i> , 2015, 4, .	6.0	41
24	microRNAs suppress cellular phenotypic heterogeneity. <i>Cell Cycle</i> , 2014, 13, 1517-1518.	2.6	6
25	A comparative study of Pointed and Yan expression reveals new complexity to the transcriptional networks downstream of receptor tyrosine kinase signaling. <i>Developmental Biology</i> , 2014, 385, 263-278.	2.0	31
26	MicroRNAs and their roles in developmental canalization. <i>Current Opinion in Genetics and Development</i> , 2014, 27, 1-6.	3.3	75
27	miR-9a Minimizes the Phenotypic Impact of Genomic Diversity by Buffering a Transcription Factor. <i>Cell</i> , 2013, 155, 1556-1567.	28.9	99
28	Functionally Diverse MicroRNA Effector Complexes Are Regulated by Extracellular Signaling. <i>Molecular Cell</i> , 2013, 52, 113-123.	9.7	50
29	Functional Specialization of the Small Interfering RNA Pathway in Response to Virus Infection. <i>PLoS Pathogens</i> , 2013, 9, e1003579.	4.7	70
30	The Relationship Between Long-Range Chromatin Occupancy and Polymerization of the <i>Drosophila</i> ETS Family Transcriptional Repressor Yan. <i>Genetics</i> , 2013, 193, 633-649.	2.9	28
31	A Systematic Genetic Screen to Dissect the MicroRNA Pathway in <i>Drosophila</i> . <i>G3: Genes, Genomes, Genetics</i> , 2012, 2, 437-448.	1.8	15
32	Biological Robustness and the Role of MicroRNAs. <i>Current Topics in Developmental Biology</i> , 2012, 99, 237-255.	2.2	92
33	Cargo sorting to lysosome-related organelles regulates siRNA-mediated gene silencing. <i>Journal of Cell Biology</i> , 2011, 194, 77-87.	5.2	30
34	Loqs and R2D2 act sequentially in the siRNA pathway in <i>Drosophila</i> . <i>Nature Structural and Molecular Biology</i> , 2010, 17, 24-30.	8.2	127
35	Reply to "Evolutionary flux of canonical microRNAs and mirtrons in <i>Drosophila</i> ". <i>Nature Genetics</i> , 2010, 42, 9-10.	21.4	27
36	Silencing by small RNAs is linked to endosomal trafficking. <i>Nature Cell Biology</i> , 2009, 11, 1150-1156.	10.3	326

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37	Origins and Mechanisms of miRNAs and siRNAs. <i>Cell</i> , 2009, 136, 642-655.	28.9	4,279
38	A MicroRNA Imparts Robustness against Environmental Fluctuation during Development. <i>Cell</i> , 2009, 137, 273-282.	28.9	432
39	The Endo-siRNA Pathway Is Essential for Robust Development of the <i>Drosophila</i> Embryo. <i>PLoS ONE</i> , 2009, 4, e7576.	2.5	36
40	The birth and death of microRNA genes in <i>Drosophila</i> . <i>Nature Genetics</i> , 2008, 40, 351-355.	21.4	240
41	Lola regulates cell fate by antagonizing Notch induction in the <i>Drosophila</i> eye. <i>Mechanisms of Development</i> , 2008, 125, 18-29.	1.7	30
42	Physical modeling of cell geometric order in an epithelial tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 907-911.	7.1	117
43	Cell-type-specific transcription of <i>prospero</i> is controlled by combinatorial signaling in the <i>Drosophila</i> eye. <i>Development (Cambridge)</i> , 2008, 135, 2787-2796.	2.5	45
44	Cell adhesion and cortex contractility determine cell patterning in the <i>Drosophila</i> retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18549-18554.	7.1	177
45	SnapShot: Posttranscriptional Gene Silencing. <i>Cell</i> , 2007, 130, 570.e1-570.e2.	28.9	7
46	Pattern formation in the <i>Drosophila</i> eye. <i>Current Opinion in Genetics and Development</i> , 2007, 17, 309-313.	3.3	64
47	MOLECULAR BIOLOGY: A New RNA Dimension to Genome Control. <i>Science</i> , 2006, 313, 305-306.	12.6	45
48	Gene regulation by microRNAs. <i>Current Opinion in Genetics and Development</i> , 2006, 16, 203-208.	3.3	432
49	Conversion of pre-RISC to holo-RISC by Ago2 during assembly of RNAi complexes. <i>Rna</i> , 2006, 13, 22-29.	3.5	80
50	Targets of microRNA regulation in the <i>Drosophila</i> oocyte proteome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12023-12028.	7.1	77
51	Adhesion proteins and the control of cell shape. <i>Current Opinion in Genetics and Development</i> , 2005, 15, 358-363.	3.3	48
52	A microRNA Mediates EGF Receptor Signaling and Promotes Photoreceptor Differentiation in the <i>Drosophila</i> Eye. <i>Cell</i> , 2005, 123, 1267-1277.	28.9	331
53	Surface mechanics mediate pattern formation in the developing retina. <i>Nature</i> , 2004, 431, 647-652.	27.8	318
54	Expanding roles for miRNAs and siRNAs in cell regulation. <i>Current Opinion in Cell Biology</i> , 2004, 16, 127-133.	5.4	78

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55	Distinct Roles for Drosophila Dicer-1 and Dicer-2 in the siRNA/miRNA Silencing Pathways. <i>Cell</i> , 2004, 117, 69-81.	28.9	1,153
56	Making a better RNAi vector for Drosophila: use of intron spacers. <i>Methods</i> , 2003, 30, 322-329.	3.8	308
57	RNA Interference: The Fragile X Syndrome Connection. <i>Current Biology</i> , 2002, 12, R852-R854.	3.9	26
58	Gene silencing by double-stranded RNA. <i>Current Opinion in Cell Biology</i> , 2001, 13, 244-248.	5.4	227
59	Heritable gene silencing in Drosophila using double-stranded RNA. <i>Nature Biotechnology</i> , 2000, 18, 896-898.	17.5	471
60	Overlapping Activators and Repressors Delimit Transcriptional Response to Receptor Tyrosine Kinase Signals in the Drosophila Eye. <i>Cell</i> , 2000, 103, 87-97.	28.9	144
61	Use of dsRNA-Mediated Genetic Interference to Demonstrate that frizzled and frizzled 2 Act in the Wingless Pathway. <i>Cell</i> , 1998, 95, 1017-1026.	28.9	1,036
62	Photoreceptor Cell Differentiation Requires Regulated Proteolysis of the Transcriptional Repressor Tramtrack. <i>Cell</i> , 1997, 90, 469-478.	28.9	212
63	seven in absentia, a gene required for specification of R7 cell fate in the Drosophila eye. <i>Cell</i> , 1990, 63, 561-577.	28.9	314