

Phillip A Newmark

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

6,291
citations

87723

38
h-index

85405

71
g-index

120
all docs

120
docs citations

120
times ranked

3018
citing authors

#	ARTICLE	IF	CITATIONS
1	Double-stranded RNA specifically disrupts gene expression during planarian regeneration. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5049-5054.	3.3	485
2	Not your father's planarian: a classic model enters the era of functional genomics. Nature Reviews Genetics, 2002, 3, 210-219.	7.7	454
3	Bromodeoxyuridine Specifically Labels the Regenerative Stem Cells of Planarians. Developmental Biology, 2000, 220, 142-153.	0.9	450
4	Ingestion of bacterially expressed double-stranded RNA inhibits gene expression in planarians. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11861-11865.	3.3	260
5	Planarian homologs of netrin and netrin receptor are required for proper regeneration of the central nervous system and the maintenance of nervous system architecture. Development (Cambridge), 2005, 132, 3691-3703.	1.2	254
6	Genome-Wide Analyses Reveal a Role for Peptide Hormones in Planarian Germline Development. PLoS Biology, 2010, 8, e1000509.	2.6	249
7	In situ hybridization protocol for enhanced detection of gene expression in the planarian <i>Schmidtea mediterranea</i> . BMC Developmental Biology, 2013, 13, 8.	2.1	247
8	The <i>Schmidtea mediterranea</i> database as a molecular resource for studying platyhelminthes, stem cells and regeneration. Development (Cambridge), 2002, 129, 5659-5665.	1.2	222
9	A bruno-like Gene Is Required for Stem Cell Maintenance in Planarians. Developmental Cell, 2006, 11, 159-169.	3.1	222
10	Adult somatic stem cells in the human parasite <i>Schistosoma mansoni</i> . Nature, 2013, 494, 476-479.	13.7	188
11	RNA interference by feeding in vitro-synthesized double-stranded RNA to planarians: Methodology and dynamics. Developmental Dynamics, 2013, 242, 718-730.	0.8	186
12	nanos function is essential for development and regeneration of planarian germ cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5901-5906.	3.3	180
13	Allometric scaling and proportion regulation in the freshwater planarian <i>Schmidtea mediterranea</i> . Developmental Dynamics, 2003, 226, 326-333.	0.8	147
14	The planarian <i>Schmidtea mediterranea</i> as a model for epigenetic germ cell specification: Analysis of ESTs from the hermaphroditic strain. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18491-18496.	3.3	140
15	Functional genomic characterization of neoblast-like stem cells in larval <i>Schistosoma mansoni</i> . ELife, 2013, 2, e00768.	2.8	124
16	Stem cell-based growth, regeneration, and remodeling of the planarian intestine. Developmental Biology, 2011, 356, 445-459.	0.9	118
17	Restoration of anterior regeneration in a planarian with limited regenerative ability. Nature, 2013, 500, 77-80.	13.7	118
18	Regeneration and maintenance of the planarian midline is regulated by a slit orthologue. Developmental Biology, 2007, 307, 394-406.	0.9	116

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19	An Atlas for <i>Schistosoma mansoni</i> Organs and Life-Cycle Stages Using Cell Type-Specific Markers and Confocal Microscopy. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e1009.	1.3	116
20	An RNAi Screen Reveals Intestinal Regulators of Branching Morphogenesis, Differentiation, and Stem Cell Proliferation in Planarians. <i>Developmental Cell</i> , 2012, 23, 691-704.	3.1	115
21	The cell biology of regeneration. <i>Journal of Cell Biology</i> , 2012, 196, 553-562.	2.3	110
22	A planarian nidovirus expands the limits of RNA genome size. <i>PLoS Pathogens</i> , 2018, 14, e1007314.	2.1	108
23	A functional genomic screen in planarians identifies novel regulators of germ cell development. <i>Genes and Development</i> , 2010, 24, 2081-2092.	2.7	89
24	Germ Cell Specification and Regeneration in Planarians. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2008, 73, 573-581.	2.0	82
25	Follistatin antagonizes Activin signaling and acts with Notum to direct planarian head regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1363-1368.	3.3	78
26	Morphogenesis defects are associated with abnormal nervous system regeneration following roboA RNAi in planarians. <i>Development (Cambridge)</i> , 2007, 134, 833-837.	1.2	77
27	PRMT5 and the role of symmetrical dimethylarginine in chromatoid bodies of planarian stem cells. <i>Development (Cambridge)</i> , 2012, 139, 1083-1094.	1.2	73
28	Stem cell heterogeneity drives the parasitic life cycle of <i>Schistosoma mansoni</i> . <i>ELife</i> , 2018, 7, .	2.8	70
29	On the organ trail: insights into organ regeneration in the planarian. <i>Current Opinion in Genetics and Development</i> , 2015, 32, 37-46.	1.5	60
30	Myocyte differentiation and body wall muscle regeneration in the planarian <i>Girardia tigrina</i> . <i>Development Genes and Evolution</i> , 1997, 207, 306-316.	0.4	57
31	A functional genomics screen in planarians reveals regulators of whole-brain regeneration. <i>ELife</i> , 2016, 5, .	2.8	57
32	An insulin-like peptide regulates size and adult stem cells in planarians. <i>International Journal of Developmental Biology</i> , 2012, 56, 75-82.	0.3	56
33	A sex-specific transcription factor controls male identity in a simultaneous hermaphrodite. <i>Nature Communications</i> , 2013, 4, 1814.	5.8	53
34	Whole mount in situ hybridization methodology for <i>Schistosoma mansoni</i> . <i>Molecular and Biochemical Parasitology</i> , 2011, 178, 46-50.	0.5	52
35	Emerging patterns in planarian regeneration. <i>Current Opinion in Genetics and Development</i> , 2009, 19, 412-420.	1.5	51
36	Single-cell atlas of the first intra-mammalian developmental stage of the human parasite <i>Schistosoma mansoni</i> . <i>Nature Communications</i> , 2020, 11, 6411.	5.8	51

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37	The use of lectins as markers for differentiated secretory cells in planarians. <i>Developmental Dynamics</i> , 2010, 239, 2888-2897.	0.8	47
38	Molecular markers to characterize the hermaphroditic reproductive system of the planarian <i>Schmidtea mediterranea</i> . <i>BMC Developmental Biology</i> , 2011, 11, 69.	2.1	46
39	Stem cell progeny contribute to the schistosome host-parasite interface. <i>ELife</i> , 2016, 5, e12473.	2.8	45
40	GPCRs Direct Germline Development and Somatic Gonad Function in Planarians. <i>PLoS Biology</i> , 2016, 14, e1002457.	2.6	42
41	It's No Fluke: The Planarian as a Model for Understanding Schistosomes. <i>PLoS Pathogens</i> , 2013, 9, e1003396.	2.1	37
42	Spliced-Leader trans-Splicing in Freshwater Planarians. <i>Molecular Biology and Evolution</i> , 2005, 22, 2048-2054.	3.5	36
43	PIWI homologs mediate Histone H4 mRNA localization to planarian chromatoid bodies. <i>Development (Cambridge)</i> , 2014, 141, 2592-2601.	1.2	35
44	Cell-type diversity and regionalized gene expression in the planarian intestine. <i>ELife</i> , 2020, 9, .	2.8	35
45	Generation of cell type-specific monoclonal antibodies for the planarian and optimization of sample processing for immunolabeling. <i>BMC Developmental Biology</i> , 2014, 14, 45.	2.1	33
46	Preparation of the planarian <i>Schmidtea mediterranea</i> for high-resolution histology and transmission electron microscopy. <i>Nature Protocols</i> , 2014, 9, 661-673.	5.5	30
47	Genetic dissection of the planarian reproductive system through characterization of <i>Schmidtea mediterranea</i> CPEB homologs. <i>Developmental Biology</i> , 2017, 426, 43-55.	0.9	28
48	The use of planarians to dissect the molecular basis of metazoan regeneration. <i>Wound Repair and Regeneration</i> , 1998, 6, S-413-S-420.	1.5	27
49	From worm to germ: Germ cell development and regeneration in planarians. <i>Current Topics in Developmental Biology</i> , 2019, 135, 127-153.	1.0	27
50	A confocal microscopy-based atlas of tissue architecture in the tapeworm <i>Hymenolepis diminuta</i> . <i>Experimental Parasitology</i> , 2015, 158, 31-41.	0.5	26
51	NF-YB Regulates Spermatogonial Stem Cell Self-Renewal and Proliferation in the Planarian <i>Schmidtea mediterranea</i> . <i>PLoS Genetics</i> , 2016, 12, e1006109.	1.5	24
52	Whole-Mount In Situ Hybridization of Planarians. <i>Methods in Molecular Biology</i> , 2018, 1774, 379-392.	0.4	24
53	Gene nomenclature guidelines for the planarian <i>Schmidtea mediterranea</i> . <i>Developmental Dynamics</i> , 2008, 237, 3099-3101.	0.8	23
54	Mass Spectrometry Imaging and Identification of Peptides Associated with Cephalic Ganglia Regeneration in <i>Schmidtea mediterranea</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 8109-8120.	1.6	23

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55	Opening a New Can of Worms: A Large-Scale RNAi Screen in Planarians. <i>Developmental Cell</i> , 2005, 8, 623-624.	3.1	21
56	Tryptophan hydroxylase Is Required for Eye Melanogenesis in the Planarian <i>Schmidtea mediterranea</i> . <i>PLoS ONE</i> , 2015, 10, e0127074.	1.1	18
57	A lophotrochozoan-specific nuclear hormone receptor is required for reproductive system development in the planarian. <i>Developmental Biology</i> , 2014, 396, 150-157.	0.9	17
58	The esophageal gland mediates host immune evasion by the human parasite <i>Schistosoma mansoni</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19299-19309.	3.3	17
59	A premeiotic function for <i>boule</i> in the planarian <i>Schmidtea mediterranea</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3509-18.	3.3	15
60	Region-specific regulation of stem cell-driven regeneration in tapeworms. <i>ELife</i> , 2019, 8, .	2.8	14
61	A rotifer-derived paralytic compound prevents transmission of schistosomiasis to a mammalian host. <i>PLoS Biology</i> , 2019, 17, e3000485.	2.6	11
62	A KrÄ¼ppel-like factor is required for development and regeneration of germline and yolk cells from somatic stem cells in planarians. <i>PLoS Biology</i> , 2022, 20, e3001472.	2.6	10
63	Fixation, Processing, and Immunofluorescent Labeling of Whole Mount Planarians. <i>Methods in Molecular Biology</i> , 2018, 1774, 353-366.	0.4	9
64	Somatic regulation of female germ cell regeneration and development in planarians. <i>Cell Reports</i> , 2022, 38, 110525.	2.9	9
65	RNA interference by feeding in vitro-synthesized double-stranded RNA to planarians: Methodology and dynamics. <i>Developmental Dynamics</i> , 2013, 242, C1-C1.	0.8	5
66	<i>Schmidtea</i> happens: Re-establishing the planarian as a model for studying the mechanisms of regeneration. <i>Current Topics in Developmental Biology</i> , 2022, 147, 307-344.	1.0	5
67	Planarian "kidneys" go with the flow. <i>ELife</i> , 2015, 4, e09353.	2.8	3
68	The good, the bad, and the ugly: From planarians to parasites. <i>Current Topics in Developmental Biology</i> , 2022, 147, 345-373.	1.0	3
69	Heal Thy Cell(f): A Single-Cell View of Regeneration. <i>Developmental Cell</i> , 2015, 35, 527-528.	3.1	2
70	Analysis of Morphogenesis and Flagellar Assembly During Spermatogenesis in. <i>Methods in Molecular Biology</i> , 2022, 2364, 199-216.	0.4	1
71	Gene nomenclature guidelines for the planarian <i>Schmidtea mediterranea</i> . <i>Developmental Dynamics</i> , 2008, 237, spcone-spcone.	0.8	0
72	Visions: the art of science. <i>Molecular Reproduction and Development</i> , 2010, 77, 933-933.	1.0	0

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73	Wound healing and regeneration: time heals all wounds, but sometimes it needs a little help. Molecular Biology of the Cell, 2011, 22, 719-719.	0.9	0
74	Prospecting for Planarian Pluripotency. Cell, 2018, 173, 1566-1567.	13.5	0