

# Phillip A Newmark

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

5,008  
citations

36  
h-index

70  
g-index

120  
ext. papers

5,790  
ext. citations

8.6  
avg, IF

5.9  
L-index

#	Paper	IF	Citations
80	Double-stranded RNA specifically disrupts gene expression during planarian regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 5049-54	11.5	434
79	Not your father's planarian: a classic model enters the era of functional genomics. <i>Nature Reviews Genetics</i> , <b>2002</b> , 3, 210-9	30.1	397
78	Bromodeoxyuridine specifically labels the regenerative stem cells of planarians. <i>Developmental Biology</i> , <b>2000</b> , 220, 142-53	3.1	373
77	Ingestion of bacterially expressed double-stranded RNA inhibits gene expression in planarians. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100 Suppl 1, 11861-5	11.5	226
76	Planarian homologs of netrin and netrin receptor are required for proper regeneration of the central nervous system and the maintenance of nervous system architecture. <i>Development (Cambridge)</i> , <b>2005</b> , 132, 3691-703	6.6	209
75	A Bruno-like gene is required for stem cell maintenance in planarians. <i>Developmental Cell</i> , <b>2006</b> , 11, 159-69	6.2	200
74	The Schmidtea mediterranea database as a molecular resource for studying platyhelminthes, stem cells and regeneration. <i>Development (Cambridge)</i> , <b>2002</b> , 129, 5659-65	6.6	191
73	Genome-wide analyses reveal a role for peptide hormones in planarian germline development. <i>PLoS Biology</i> , <b>2010</b> , 8, e1000509	9.7	183
72	In situ hybridization protocol for enhanced detection of gene expression in the planarian Schmidtea mediterranea. <i>BMC Developmental Biology</i> , <b>2013</b> , 13, 8	3.1	179
71	nanos function is essential for development and regeneration of planarian germ cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 5901-6	11.5	155
70	Adult somatic stem cells in the human parasite Schistosoma mansoni. <i>Nature</i> , <b>2013</b> , 494, 476-9	50.4	152
69	RNA interference by feeding in vitro-synthesized double-stranded RNA to planarians: methodology and dynamics. <i>Developmental Dynamics</i> , <b>2013</b> , 242, 718-30	2.9	133
68	The planarian Schmidtea mediterranea as a model for epigenetic germ cell specification: analysis of ESTs from the hermaphroditic strain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 18491-6	11.5	128
67	Allometric scaling and proportion regulation in the freshwater planarian Schmidtea mediterranea. <i>Developmental Dynamics</i> , <b>2003</b> , 226, 326-33	2.9	120
66	Restoration of anterior regeneration in a planarian with limited regenerative ability. <i>Nature</i> , <b>2013</b> , 500, 77-80	50.4	99
65	Regeneration and maintenance of the planarian midline is regulated by a slit orthologue. <i>Developmental Biology</i> , <b>2007</b> , 307, 394-406	3.1	97
64	Stem cell-based growth, regeneration, and remodeling of the planarian intestine. <i>Developmental Biology</i> , <b>2011</b> , 356, 445-59	3.1	94

63	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> , <b>2011</b> , 5, e1009	4.8	92
62	The cell biology of regeneration. <i>Journal of Cell Biology</i> , <b>2012</b> , 196, 553-62	7.3	92
61	An RNAi screen reveals intestinal regulators of branching morphogenesis, differentiation, and stem cell proliferation in planarians. <i>Developmental Cell</i> , <b>2012</b> , 23, 691-704	10.2	90
60	Functional genomic characterization of neoblast-like stem cells in larval <i>Schistosoma mansoni</i> . <i>ELife</i> , <b>2013</b> , 2, e00768	8.9	85
59	A functional genomic screen in planarians identifies novel regulators of germ cell development. <i>Genes and Development</i> , <b>2010</b> , 24, 2081-92	12.6	81
58	Germ cell specification and regeneration in planarians. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2008</b> , 73, 573-81	3.9	68
57	A planarian nidovirus expands the limits of RNA genome size. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1007314	7.6	68
56	PRMT5 and the role of symmetrical dimethylarginine in chromatoid bodies of planarian stem cells. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 1083-94	6.6	65
55	Morphogenesis defects are associated with abnormal nervous system regeneration following roboA RNAi in planarians. <i>Development (Cambridge)</i> , <b>2007</b> , 134, 833-7	6.6	65
54	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> , <b>2013</b> , 110, 1363-8	11.5	62
53	On the organ trail: insights into organ regeneration in the planarian. <i>Current Opinion in Genetics and Development</i> , <b>2015</b> , 32, 37-46	4.9	49
52	Myocyte differentiation and body wall muscle regeneration in the planarian <i>Girardia tigrina</i> . <i>Development Genes and Evolution</i> , <b>1997</b> , 207, 306-316	1.8	49
51	An insulin-like peptide regulates size and adult stem cells in planarians. <i>International Journal of Developmental Biology</i> , <b>2012</b> , 56, 75-82	1.9	48
50	Emerging patterns in planarian regeneration. <i>Current Opinion in Genetics and Development</i> , <b>2009</b> , 19, 412-20	4.9	46
49	Whole mount in situ hybridization methodology for <i>Schistosoma mansoni</i> . <i>Molecular and Biochemical Parasitology</i> , <b>2011</b> , 178, 46-50	1.9	45
48	The use of lectins as markers for differentiated secretory cells in planarians. <i>Developmental Dynamics</i> , <b>2010</b> , 239, 2888-97	2.9	43
47	A sex-specific transcription factor controls male identity in a simultaneous hermaphrodite. <i>Nature Communications</i> , <b>2013</b> , 4, 1814	17.4	39
46	Molecular markers to characterize the hermaphroditic reproductive system of the planarian <i>Schmidtea mediterranea</i> . <i>BMC Developmental Biology</i> , <b>2011</b> , 11, 69	3.1	38

45	A functional genomics screen in planarians reveals regulators of whole-brain regeneration. <i>ELife</i> , <b>2016</b> , 5,	8.9	37
44	Stem cell heterogeneity drives the parasitic life cycle of. <i>ELife</i> , <b>2018</b> , 7,	8.9	35
43	Stem cell progeny contribute to the schistosome host-parasite interface. <i>ELife</i> , <b>2016</b> , 5, e12473	8.9	34
42	It's no fluke: the planarian as a model for understanding schistosomes. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e100339	6.6	30
41	Spliced-leader trans-splicing in freshwater planarians. <i>Molecular Biology and Evolution</i> , <b>2005</b> , 22, 2048-54	8.3	30
40	PIWI homologs mediate histone H4 mRNA localization to planarian chromatoid bodies. <i>Development (Cambridge)</i> , <b>2014</b> , 141, 2592-601	6.6	28
39	GPCRs Direct Germline Development and Somatic Gonad Function in Planarians. <i>PLoS Biology</i> , <b>2016</b> , 14, e1002457	9.7	26
38	Preparation of the planarian <i>Schmidtea mediterranea</i> for high-resolution histology and transmission electron microscopy. <i>Nature Protocols</i> , <b>2014</b> , 9, 661-73	18.8	23
37	The use of planarians to dissect the molecular basis of metazoan regeneration. <i>Wound Repair and Regeneration</i> , <b>1998</b> , 6, 413-20	3.6	22
36	Gene nomenclature guidelines for the planarian <i>Schmidtea mediterranea</i> . <i>Developmental Dynamics</i> , <b>2008</b> , 237, 3099-101	2.9	20
35	Generation of cell type-specific monoclonal antibodies for the planarian and optimization of sample processing for immunolabeling. <i>BMC Developmental Biology</i> , <b>2014</b> , 14, 45	3.1	19
34	Opening a new can of worms: a large-scale RNAi screen in planarians. <i>Developmental Cell</i> , <b>2005</b> , 8, 623-4	10.2	19
33	Genetic dissection of the planarian reproductive system through characterization of <i>Schmidtea mediterranea</i> CPEB homologs. <i>Developmental Biology</i> , <b>2017</b> , 426, 43-55	3.1	17
32	Mass Spectrometry Imaging and Identification of Peptides Associated with Cephalic Ganglia Regeneration in <i>Schmidtea mediterranea</i> . <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 8109-20	5.4	16
31	A confocal microscopy-based atlas of tissue architecture in the tapeworm <i>Hymenolepis diminuta</i> . <i>Experimental Parasitology</i> , <b>2015</b> , 158, 31-41	2.1	14
30	Single-cell atlas of the first intra-mammalian developmental stage of the human parasite <i>Schistosoma mansoni</i> . <i>Nature Communications</i> , <b>2020</b> , 11, 6411	17.4	14
29	Tryptophan hydroxylase Is Required for Eye Melanogenesis in the Planarian <i>Schmidtea mediterranea</i> . <i>PLoS ONE</i> , <b>2015</b> , 10, e0127074	3.7	13
28	Cell-type diversity and regionalized gene expression in the planarian intestine. <i>ELife</i> , <b>2020</b> , 9,	8.9	13

27	From worm to germ: Germ cell development and regeneration in planarians. <i>Current Topics in Developmental Biology</i> , <b>2019</b> , 135, 127-153	5.3	12
26	NF-YB Regulates Spermatogonial Stem Cell Self-Renewal and Proliferation in the Planarian <i>Schmidtea mediterranea</i> . <i>PLoS Genetics</i> , <b>2016</b> , 12, e1006109	6	12
25	A premeiotic function for boule in the planarian <i>Schmidtea mediterranea</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E3509-18	11.5	10
24	A lophotrochozoan-specific nuclear hormone receptor is required for reproductive system development in the planarian. <i>Developmental Biology</i> , <b>2014</b> , 396, 150-7	3.1	10
23	Whole-Mount In Situ Hybridization of Planarians. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1774, 379-392	1.4	9
22	A rotifer-derived paralytic compound prevents transmission of schistosomiasis to a mammalian host. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000485	9.7	7
21	Single-cell atlas of the first intra-mammalian developmental stage of the human parasite <i>Schistosoma mansoni</i>		7
20	The esophageal gland mediates host immune evasion by the human parasite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 19299-19309	11.5	7
19	Fixation, Processing, and Immunofluorescent Labeling of Whole Mount Planarians. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1774, 353-366	1.4	6
18	Region-specific regulation of stem cell-driven regeneration in tapeworms. <i>ELife</i> , <b>2019</b> , 8,	8.9	6
17	RNA interference by feeding in vitro-synthesized double-stranded RNA to planarians: Methodology and dynamics. <i>Developmental Dynamics</i> , <b>2013</b> , 242, C1-C1	2.9	4
16	Heal Thy Cell(f): A Single-Cell View of Regeneration. <i>Developmental Cell</i> , <b>2015</b> , 35, 527-528	10.2	2
15	Planarian Kidneys Ygo with the flow. <i>ELife</i> , <b>2015</b> , 4, e09353	8.9	2
14	A planarian nidovirus expands the limits of RNA genome size		2
13	Kröpel-like factor 4 is required for development and regeneration of germline and yolk cells from somatic stem cells in planarians		1
12	The good, the bad, and the ugly: From planarians to parasites.. <i>Current Topics in Developmental Biology</i> , <b>2022</b> , 147, 345-373	5.3	1
11	<i>Schmidtea</i> happens: Re-establishing the planarian as a model for studying the mechanisms of regeneration.. <i>Current Topics in Developmental Biology</i> , <b>2022</b> , 147, 307-344	5.3	1
10	Somatic regulation of female germ cell regeneration and development in planarians.. <i>Cell Reports</i> , <b>2022</b> , 38, 110525	10.6	0

- 9 Prospecting for Planarian Pluripotency. *Cell*, **2018**, 173, 1566-1567 56.2
- 8 Wound healing and regeneration: time heals all wounds, but sometimes it needs a little help. *Molecular Biology of the Cell*, **2011**, 22, 719 3.5
- 7 Visions: the art of science. *Molecular Reproduction and Development*, **2010**, 77, 933 2.6
- 6 Analysis of Morphogenesis and Flagellar Assembly During Spermatogenesis in Planarian Flatworms. *Methods in Molecular Biology*, **2022**, 2364, 199-216 1.4
- 5 A rotifer-derived paralytic compound prevents transmission of schistosomiasis to a mammalian host **2019**, 17, e3000485
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