Peter W Reddien

List of Publications by Citations

67 papers	7,704 citations	41 h-index	74 g-index
74 ext. papers	9,241 ext. citations	15.4 avg, IF	6.61 L-index

#	Paper	IF	Citations
67	Fundamentals of planarian regeneration. *Annual Review of Cell and Developmental Biology*, **2004**, 20, 725-57	12.6	659
66	SMEDWI-2 is a PIWI-like protein that regulates planarian stem cells. *Science*, **2005**, 310, 1327-30	33.3	463
65	Clonogenic neoblasts are pluripotent adult stem cells that underlie planarian regeneration. *Science*, **2011**, 332, 811-6	33.3	433
64	The cellular basis for animal regeneration. *Developmental Cell*, **2011**, 21, 172-85	10.2	374
63	Wnt signaling and the polarity of the primary body axis. *Cell*, **2009**, 139, 1056-68	56.2	354
62	CED-2/CrkII and CED-10/Rac control phagocytosis and cell migration in Caenorhabditis elegans. *Nature Cell Biology*, **2000**, 2, 131-6	23.4	353
61	Identification of genes needed for regeneration, stem cell function, and tissue homeostasis by systematic gene perturbation in planaria. *Developmental Cell*, **2005**, 8, 635-49	10.2	337
60	Smed-betacatenin-1 is required for anteroposterior blastema polarity in planarian regeneration. *Science*, **2008**, 319, 327-30	33.3	284
59	Phagocytosis promotes programmed cell death in C. elegans. *Nature*, **2001**, 412, 198-202	50.4	284
58	Planarian regeneration involves distinct stem cell responses to wounds and tissue absence. *Developmental Biology*, **2010**, 344, 979-91	3.1	227
57	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 Suppl 1, 11861-5	11.5	226
56	Cell type transcriptome atlas for the planarian. *Science*, **2018**, 360,	33.3	202
55	The engulfment process of programmed cell death in caenorhabditis elegans. *Annual Review of Cell and Developmental Biology*, **2004**, 20, 193-221	12.6	197
54	Single-cell analysis reveals functionally distinct classes within the planarian stem cell compartment. *Cell Stem Cell*, **2014**, 15, 326-339	18	191
53	A wound-induced Wnt expression program controls planarian regeneration polarity. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 17061-6	11.5	181
52	Polarized notum activation at wounds inhibits Wnt function to promote planarian head regeneration. *Science*, **2011**, 332, 852-5	33.3	168
51	A molecular wound response program associated with regeneration initiation in planarians. *Genes and Development*, **2012**, 26, 988-1002	12.6	163

50	Muscle cells provide instructions for planarian regeneration. *Cell Reports*, **2013**, 4, 633-41	10.6	159
49	Neoblast specialization in regeneration of the planarian Schmidtea mediterranea. *Stem Cell Reports* , **2014**, 3, 339-52	8	140
48	Genetic regulators of a pluripotent adult stem cell system in planarians identified by RNAi and clonal analysis. *Cell Stem Cell*, **2012**, 10, 299-311	18	140
47	A Generic and Cell-Type-Specific Wound Response Precedes Regeneration in Planarians. *Developmental Cell*, **2015**, 35, 632-645	10.2	139
46	BMP signaling regulates the dorsal planarian midline and is needed for asymmetric regeneration. *Development (Cambridge)*, **2007**, 134, 4043-51	6.6	135
45	Transcriptome analysis of the planarian eye identifies ovo as a specific regulator of eye regeneration. *Cell Reports*, **2012**, 2, 294-307	10.6	134
44	The Cellular and Molecular Basis for Planarian Regeneration. *Cell*, **2018**, 175, 327-345	56.2	130
43	A regulatory program for excretory system regeneration in planarians. *Development (Cambridge)*, **2011**, 138, 4387-98	6.6	114
42	Whole-body acoel regeneration is controlled by Wnt and Bmp-Admp signaling. *Current Biology*, **2014**, 24, 1107-13	6.3	113
41	Tissue absence initiates regeneration through follistatin-mediated inhibition of activin signaling. *ELife*, **2013**, 2, e00247	8.9	106
40	dlx and sp6-9 Control optic cup regeneration in a prototypic eye. *PLoS Genetics*, **2011**, 7, e1002226	6	99
39	Specialized progenitors and regeneration. *Development (Cambridge)*, **2013**, 140, 951-7	6.6	88
38	A Bmp/Admp regulatory circuit controls maintenance and regeneration of dorsal-ventral polarity in planarians. *Current Biology*, **2011**, 21, 294-9	6.3	81
37	The Zn finger protein Iguana impacts Hedgehog signaling by promoting ciliogenesis. *Developmental Biology*, **2010**, 337, 148-56	3.1	81
36	The Mi-2-like Smed-CHD4 gene is required for stem cell differentiation in the planarian Schmidtea mediterranea. *Development (Cambridge)*, **2010**, 137, 1231-41	6.6	77
35	Constitutive gene expression and the specification of tissue identity in adult planarian biology. *Trends in Genetics*, **2011**, 27, 277-85	8.5	76
34	Mutational analysis of the Caenorhabditis elegans cell-death gene ced-3. *Genetics*, **1999**, 153, 1655-71	4	71
33	Two FGFRL-Wnt circuits organize the planarian anteroposterior axis. *ELife*, **2016**, 5,	8.9	69

32	Acoel genome reveals the regulatory landscape of whole-body regeneration. *Science*, **2019**, 363,	33.3	61
31	Orthogonal muscle fibres have different instructive roles in planarian regeneration. *Nature*, **2017**, 551, 623-628	50.4	61
30	A forkhead transcription factor is wound-induced at the planarian midline and required for anterior pole regeneration. *PLoS Genetics*, **2014**, 10, e1003999	6	59
29	Planarian Epidermal Stem Cells Respond to Positional Cues to Promote Cell-Type Diversity. *Developmental Cell*, **2017**, 40, 491-504.e5	10.2	47
28	pbx is required for pole and eye regeneration in planarians. *Development (Cambridge)*, **2013**, 140, 719-29	6.6	42
27	Hedgehog signaling regulates gene expression in planarian glia. *ELife*, **2016**, 5,	8.9	42
26	A widely employed germ cell marker is an ancient disordered protein with reproductive functions in diverse eukaryotes. *ELife*, **2016**, 5,	8.9	35
25	DPL-1 DP, LIN-35 Rb and EFL-1 E2F act with the MCD-1 zinc-finger protein to promote programmed cell death in Caenorhabditis elegans. *Genetics*, **2007**, 175, 1719-33	4	29
24	Landmarks in Existing Tissue at Wounds Are Utilized to Generate Pattern in Regenerating Tissue. *Current Biology*, **2017**, 27, 733-742	6.3	28
23	Eye Absence Does Not Regulate Planarian Stem Cells during Eye Regeneration. *Developmental Cell*, **2017**, 40, 381-391.e3	10.2	28
22	Muscle functions as a connective tissue and source of extracellular matrix in planarians. *Nature Communications*, **2019**, 10, 1592	17.4	26
21	Self-organization and progenitor targeting generate stable patterns in planarian regeneration. *Science*, **2018**, 360, 404-409	33.3	23
20	Acoel regeneration mechanisms indicate an ancient role for muscle in regenerative patterning. *Nature Communications*, **2017**, 8, 1260	17.4	22
19	teashirt is required for head-versus-tail regeneration polarity in planarians. *Development (Cambridge)*, **2015**, 142, 1062-72	6.6	21
18	foxF-1 Controls Specification of Non-body Wall Muscle and Phagocytic Cells in Planarians. *Current Biology*, **2018**, 28, 3787-3801.e6	6.3	21
17	Cellular and Molecular Responses Unique to Major Injury Are Dispensable for Planarian Regeneration. *Cell Reports*, **2018**, 25, 2577-2590.e3	10.6	21
16	Gene nomenclature guidelines for the planarian Schmidtea mediterranea. *Developmental Dynamics*, **2008**, 237, 3099-101	2.9	20
15	A small set of conserved genes, including sp5 and Hox, are activated by Wnt signaling in the posterior of planarians and acoels. *PLoS Genetics*, **2019**, 15, e1008401	6	11

List of Publications

14	Planarian stem cells specify fate yet retain potency during the cell cycle. *Cell Stem Cell*, **2021**, 28, 1307-1322.e5	22	11
13	Muscle and neuronal guidepost-like cells facilitate planarian visual system regeneration. *Science*, **2020**, 368,	33.3	9
12	Nuclear receptor NR4A is required for patterning at the ends of the planarian anterior-posterior axis. *ELife*, **2019**, 8,	8.9	9
11	Lin28: time for tissue repair. *Cell*, **2013**, 155, 738-9	56.2	7
10	Clonal Analysis of Planarian Stem Cells by Subtotal Irradiation and Single-Cell Transplantation. *Methods in Molecular Biology*, **2018**, 1774, 479-495	1.4	6
9	activin-2 is required for regeneration of polarity on the planarian anterior-posterior axis. *PLoS Genetics*, **2021**, 17, e1009466	6	4
8	The planarian wound epidermis gene equinox is required for blastema formation in regeneration.. *Nature Communications*, **2022**, 13, 2726	17.4	3
7	Principles of regeneration revealed by the planarian eye. *Current Opinion in Cell Biology*, **2021**, 73, 19-25	9	2
6	The cells of regeneration. *Science*, **2019**, 365, 314-316	33.3	1
5	m6A is required for resolving progenitor identity during planarian stem cell differentiation		1
4	A small set of conserved genes, including sp5 and Hox, are activated by Wnt signaling in the posterior of planarians and acoels **2019**, 15, e1008401		
3	A small set of conserved genes, including sp5 and Hox, are activated by Wnt signaling in the posterior of planarians and acoels **2019**, 15, e1008401		
2	A small set of conserved genes, including sp5 and Hox, are activated by Wnt signaling in the posterior of planarians and acoels **2019**, 15, e1008401		
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