Grant N Wheeler

List of Publications by Year
in descending order

60 papers	2,791 citations	257101 24 h-index	182168 51 g-index
68 all docs	68 docs citations	68 times ranked	4294 citing authors

#	Article	IF	Citations
1	The ADAMTS (A Disintegrin and Metalloproteinase with Thrombospondin motifs) family. Genome Biology, 2015, 16, 113.	3.8	471
2	DHODH modulates transcriptional elongation in the neural crest and melanoma. Nature, 2011, 471, 518-522.	13.7	411
3	Binding of Integrin Î±6Î²4 to Plectin Prevents Plectin Association with F-Actin but Does Not Interfere with Intermediate Filament Binding. Journal of Cell Biology, 1999, 147, 417-434.	2.3	171
4	Desmosomal glycoprotein DGI, a component of intercellular desmosome junctions, is related to the cadherin family of cell adhesion molecules.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 4796-4800.	3.3	168
5	Simple vertebrate models for chemical genetics and drug discovery screens: Lessons from zebrafish and <i>Xenopus</i>. Developmental Dynamics, 2009, 238, 1287-1308.	0.8	156
6	Desmosomal glycoproteins II and III. Cadherin-like junctional molecules generated by alternative splicing. Journal of Biological Chemistry, 1991, 266, 10438-45.	1.6	90
7	FGF-4 signaling is involved in mir-206 expression in developing somites of chicken embryos. Developmental Dynamics, 2006, 235, 2185-2191.	0.8	82
8	Chromosomal assignment of the human genes coding for the major proteins of the desmosome junction, desmoglein DGI (DSG), desmocollins DGIIIII (DSC), desmoplakins DPIII (DSP), and plakoglobin DPIII (JUP). Genomics, 1991, 10, 640-645.	1.3	69
9	Inducible gene expression in transgenic Xenopus embryos. Current Biology, 2000, 10, 849-852.	1.8	66
10	Frizzled7 mediates canonical Wnt signaling in neural crest induction. Developmental Biology, 2006, 298, 285-298.	0.9	66
11	Matrix metalloproteinase genes inXenopus development. Developmental Dynamics, 2004, 231, 214-220.	0.8	58
12	myomiR-dependent switching of BAF60 variant incorporation into Brg1 chromatin remodeling complexes during embryo myogenesis. Development (Cambridge), 2014, 141, 3378-3387.	1.2	58
13	Two novel Xenopus frizzled genes expressed in developing heart and brain. Mechanisms of Development, 1999, 86, 203-207.	1.7	51
14	Difference in XTcf-3 dependency accounts for change in response to Î²-catenin-mediated Wnt signalling in Xenopus blastula. Development (Cambridge), 2001, 128, 2063-2073.	1.2	50
15	Three matrix metalloproteinases are required in vivo for macrophage migration during embryonic development. Mechanisms of Development, 2008, 125, 1059-1070.	1.7	48
16	Xenopus as a model organism in developmental chemical genetic screens. Molecular BioSystems, 2005, 1, 223.	2.9	46
17	The MH1 domain of Smad3 interacts with Pax6 and represses autoregulation of the Pax6 P1 promoter. Nucleic Acids Research, 2007, 35, 890-901.	6.5	44
18	A Chemical Genomic Approach Identifies Matrix Metalloproteinases as Playing an Essential and Specific Role in Xenopus Melanophore Migration. Chemistry and Biology, 2009, 16, 93-104.	6.2	44

#	ARTICLE	IF	CITATIONS
19	Solid lipid nanoparticles for the delivery of anti-microbial oligonucleotides. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 134, 166-177.	2.0	42
20	Mouse Desmocollin (Dsc3) and Desmoglein (Dsg1) Genes Are Closely Linked in the Proximal Region of Chromosome 18. Genomics, 1994, 21, 510-516.	1.3	41
21	Smad1 transcription factor integrates BMP2 and Wnt3a signals in migrating cardiac progenitor cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7337-7342.	3.3	40
22	Chemical genomics identifies compounds affecting Xenopus laevis pigment cell development. Molecular BioSystems, 2009, 5, 376.	2.9	35
23	miR-133 mediated regulation of the hedgehog pathway orchestrates embryo myogenesis. Development (Cambridge), 2018, 145, .	1.2	28
24	Frizzled-10 promotes sensory neuron development in Xenopus embryos. Developmental Biology, 2009, 335, 143-155.	0.9	27
25	<i>Xenopus</i>: An ideal system for chemical genetics. Genesis, 2012, 50, 207-218.	0.8	27
26	Wnt6 expression in epidermis and epithelial tissues during <i>Xenopus</i> organogenesis. Developmental Dynamics, 2008, 237, 768-779.	0.8	24
27	Chemical Genetics and Drug Discovery in Xenopus. Methods in Molecular Biology, 2012, 917, 155-166.	0.4	24
28	Desmosomal glycoproteins I, II and III: novel members of the cadherin superfamily. Biochemical Society Transactions, 1991, 19, 1060-1064.	1.6	23
29	Cationic liposomal vectors incorporating a bolaamphiphile for oligonucleotide antimicrobials. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1767-1777.	1.4	22
30	microRNAs associated with early neural crest development in Xenopus laevis. BMC Genomics, 2018, 19, 59.	1.2	22
31	A Database of microRNA Expression Patterns in Xenopus laevis. PLoS ONE, 2015, 10, e0138313.	1.1	21
32	An early developmental vertebrate model for nanomaterial safety: bridging cell-based and mammalian toxicity assessment. Nanomedicine, 2016, 11, 643-656.	1.7	21
33	Unravelling the mechanisms that determine the uptake and metabolism of magnetic single and multicore nanoparticles in a<i>Xenopus laevis</i>model. Nanoscale, 2018, 10, 690-704.	2.8	21
34	Microsyntenic Clusters Reveal Conservation of lncRNAs in Chordates Despite Absence of Sequence Conservation. Biology, 2019, 8, 61.	1.3	19
35	Identification of the B1 and B2 subunits of human placental laminin and rat parietal-yolk-sac laminin using antisera specific for murine laminin-<i>Î²</i>-galactosidase fusion proteins. Biochemical Journal, 1990, 270, 463-468.	1.7	17
36	Klhl31 attenuates Î²-catenin dependent Wnt signaling and regulates embryo myogenesis. Developmental Biology, 2015, 402, 61-71.	0.9	17

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37	The anti-rheumatic drug, leflunomide, synergizes with MEK inhibition to suppress melanoma growth. Oncotarget, 2018, 9, 3815-3829.	0.8	17
38	The cloning, genomic organization and expression of the focal contact protein paxillin in Drosophila. Gene, 2001, 262, 291-299.	1.0	16
39	Extensions to In Silico Bioactivity Predictions Using Pathway Annotations and Differential Pharmacology Analysis: Application to <i>Xenopus laevis</i> Phenotypic Readouts. Molecular Informatics, 2013, 32, 1009-1024.	1.4	13
40	Paracetamol-induced liver injury modelled in Xenopus laevis embryos. Toxicology Letters, 2019, 302, 83-91.	0.4	13
41	The positive transcriptional elongation factor (P-TEFb) is required for neural crest specification. Developmental Biology, 2016, 416, 361-372.	0.9	12
42	ADAMTS9, a member of the ADAMTS family, in Xenopus development. Gene Expression Patterns, 2018, 29, 72-81.	0.3	12
43	A functional approach to understanding the role of NCKX5 in Xenopus pigmentation. PLoS ONE, 2017, 12, e0180465.	1.1	11
44	FZD10 regulates cell proliferation and mediates Wnt1 induced neurogenesis in the developing spinal cord. PLoS ONE, 2020, 15, e0219721.	1.1	11
45	Frizzled-7 is required for Xenopus heart development. Biology Open, 2017, 6, 1861-1868.	0.6	8
46	Characterising open chromatin in chick embryos identifies cis-regulatory elements important for paraxial mesoderm formation and axis extension. Nature Communications, 2021, 12, 1157.	5.8	8
47	An efficient miRNA knockout approach using CRISPR-Cas9 in Xenopus. Developmental Biology, 2022, 483, 66-75.	0.9	8
48	It's about time for neural crest. Science, 2015, 348, 1316-1317.	6.0	7
49	Toxicity and biodegradation of zinc ferrite nanoparticles in Xenopus laevis. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	6
50	MicroRNAs in neural crest development and neurocristopathies. Biochemical Society Transactions, 2022, 50, 965-974.	1.6	5
51	In Vivo Assessment of Drug-Induced Hepatotoxicity Using <i>Xenopus</i> Embryos. Cold Spring Harbor Protocols, 2020, 2020, pdb.prot106096.	0.2	4
52	Inducible Gene Expression in Transient Transgenic Xenopus Embryos. Methods in Molecular Biology, 2008, 469, 431-449.	0.4	3
53	Combining Cytotoxicity Assessment and Xenopus laevis Phenotypic Abnormality Assay as a Predictor of Nanomaterial Safety. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2017, 73, 20.13.1-20.13.33.	1.1	3
54	The use of bacterial fusion proteins in the production of anti-laminin antibodies. Biochemical Society Transactions, 1989, 17, 185-186.	1.6	2

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55	Phenotypic Screens with Model Organisms. , 2012, , 121-136.		2
56	Comparative mode-of-action analysis following manual and automated phenotype detection in<i>Xenopus laevis</i>. MedChemComm, 2014, 5, 386-396.	3.5	2
57	Sprouty2 mediated tuning of signalling is essential for somite myogenesis. BMC Medical Genomics, 2015, 8, S8.	0.7	2
58	Frizzled-7 expression during early cardiogenesis of Xenopus laevisembryo. BMC Genomics, 2014, 15, .	1.2	1
59	Expression analysis of chick Frizzled receptors during spinal cord development. Gene Expression Patterns, 2021, 39, 119167.	0.3	1
60	13-P092 Klhl31 is regulated by myogenic signals in developing somites and modulates Wnt signaling in vitro and in vivo. Mechanisms of Development, 2009, 126, S222.	1.7	0