Mary E Pownall

List of Publications by Year in descending order

35 papers	1,783 citations	471509 17 h-index	361022 35 g-index
35 all docs	35 docs citations	35 times ranked	2361 citing authors

#	Article	IF	Citations
1	Myogenic Regulatory Factors and the Specification of Muscle Progenitors in Vertebrate Embryos. Annual Review of Cell and Developmental Biology, 2002, 18, 747-783.	9.4	506
2	Sequential activation of three myogenic regulatory genes during somite morphogenesis in quail embryos. Developmental Biology, 1992, 151, 67-79.	2.0	193
3	QSulf1, a heparan sulfate 6-O-endosulfatase, inhibits fibroblast growth factor signaling in mesoderm induction and angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4833-4838.	7.1	186
4	Regulation of Hox gene expression and posterior development by the Xenopus caudal homologue Xcad3. EMBO Journal, 1998, 17, 3413-3427.	7.8	171
5	Hedgehog regulation of superficial slow muscle fibres in Xenopusand the evolution of tetrapod trunk myogenesis. Development (Cambridge), 2004, 131, 3249-3262.	2.5	66
6	Regulation of Hedgehog Signalling Inside and Outside the Cell. Journal of Developmental Biology, 2016, 4, 23.	1.7	61
7	Extracellular regulation of developmental cell signaling by XtSulf1. Developmental Biology, 2008, 320, 436-445.	2.0	57
8	eFGF is required for activation ofXmyoDexpression in the myogenic cell lineage ofXenopus laevis. Development (Cambridge), 2002, 129, 1307-1315.	2.5	56
9	Molecular characterisation of a candidate gut sucrase in the pea aphid, Acyrthosiphon pisum. Insect Biochemistry and Molecular Biology, 2007, 37, 307-317.	2.7	55
10	Characterisation of the Fibroblast Growth Factor Dependent Transcriptome in Early Development. PLoS ONE, 2009, 4, e4951.	2.5	44
11	Expression of enzymes involved in thyroid hormone metabolism during the early development of Xenopus tropicalis. Biology of the Cell, 2007, 99, 151-163.	2.0	35
12	Wnt-dependent osteogenic commitment of bone marrow stromal cells using a novel GSK3Î² inhibitor. Stem Cell Research, 2014, 12, 415-427.	0.7	34
13	FGF Signalling in Vertebrate Development. Colloquium Series on Developmental Biology, 2010, 1, 1-75.	0.2	31
14	Machine learning discriminates a movement disorder in a zebrafish model of Parkinson's disease. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	25
15	Xenopus tropicalis peroxidasin gene is expressed within the developing neural tube and pronephric kidney. Developmental Dynamics, 2005, 232, 377-384.	1.8	23
16	Sulf1 influences the Shh morphogen gradient during the dorsal ventral patterning of the neural tube in Xenopus tropicalis. Developmental Biology, 2014, 391, 207-218.	2.0	23
17	Sulf1 modulates BMP signaling and is required for somite morphogenesis and development of the horizontal myoseptum. Developmental Biology, 2013, 378, 107-121.	2.0	21
18	Early transcriptional targets of MyoD link myogenesis and somitogenesis. Developmental Biology, 2012, 371, 256-268.	2.0	19

#	Article	IF	Citations
19	FGF4 regulates blood and muscle specification in Xenopus laevis. Biology of the Cell, 2007, 99, 165-173.	2.0	18
20	FGF signalling modulates transcriptional repression by Xenopus grouchoâ€relatedâ€4. Biology of the Cell, 2009, 101, 301-308.	2.0	17
21	Cyclin E is recruited to the nuclear matrix during differentiation, but is not recruited in cancer cells. Nucleic Acids Research, 2011, 39, 2671-2677.	14.5	16
22	eFGF is required for activation of XmyoD expression in the myogenic cell lineage of Xenopus laevis. Development (Cambridge), 2002, 129, 1307-15.	2.5	16
23	Computational approaches for understanding the diagnosis and treatment of Parkinson's disease. IET Systems Biology, 2015, 9, 226-233.	1.5	15
24	Sulf1 has ligand-dependent effects on canonical and non-canonical Wnt signalling. Journal of Cell Science, 2015, 128, 1408-1421.	2.0	15
25	Complementary expression of HSPG 6-O-endosulfatases and 6-O-sulfotransferase in the hindbrain of Xenopus laevis. Gene Expression Patterns, 2009, 9, 166-172.	0.8	12
26	Neural crest migration requires the activity of the extracellular sulphatases XtSulf1 and XtSulf2. Developmental Biology, 2010, 341, 375-388.	2.0	11
27	Cloning and characterisation of Myf5 and MyoD orthologues in Xenopus tropicalis. Biology of the Cell, 2003, 95, 555-561.	2.0	10
28	An analysis of MyoD-dependent transcription using CRISPR/Cas9 gene targeting in Xenopus tropicalis embryos. Mechanisms of Development, 2017, 146, 1-9.	1.7	10
29	Skeletal muscle differentiation drives a dramatic downregulation of RNA polymerase III activity and differential expression of Polr3g isoforms. Developmental Biology, 2019, 454, 74-84.	2.0	10
30	A consensus Oct1 binding site is required for the activity of the Xenopus Cdx4 promoter. Developmental Biology, 2005, 282, 509-523.	2.0	9
31	More to patterning thanSonic hedgehog. BioEssays, 1994, 16, 381-383.	2.5	6
32	Adaptation of the carbamoyl-phosphate synthetase enzyme in an extremophile fish. Royal Society Open Science, 2020, 7, 201200.	2.4	5
33	Transcriptional up-regulation of BAG3, a Chaperone Assisted Selective Autophagy factor, in animal models of KY-deficient hereditary myopathy. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	3
34	Using Confocal Analysis of Xenopus laevis to Investigate Modulators of Wnt and Shh Morphogen Gradients. Journal of Visualized Experiments, 2015, , e53162.	0.3	2
35	Exploring the Expression of Cardiac Regulators in a Vertebrate Extremophile: The Cichlid Fish Oreochromis (Alcolapia) alcalica. Journal of Developmental Biology, 2020, 8, 22.	1.7	2