Sebastian M Shimeld

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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.

82 papers	3,178 citations	35 h-index	54 g-index
142 ext. papers	3,623 ext. citations	4.1 avg, IF	5.4 L-index

#	Paper	IF	Citations
82	Genesis and expansion of metazoan transcription factor gene classes. *Molecular Biology and Evolution*, **2008**, 25, 980-96	8.3	221
81	Molecular evidence from Ciona intestinalis for the evolutionary origin of vertebrate sensory placodes. *Developmental Biology*, **2005**, 282, 494-508	3.1	132
80	The evolution of the hedgehog gene family in chordates: insights from amphioxus hedgehog. *Development Genes and Evolution*, **1999**, 209, 40-7	1.8	132
79	Pitx homeobox genes in Ciona and amphioxus show left-right asymmetry is a conserved chordate character and define the ascidian adenohypophysis. *Evolution & Development*, **2002**, 4, 354-65	2.6	125
78	A genomewide survey of developmentally relevant genes in Ciona intestinalis. III. Genes for Fox, ETS, nuclear receptors and NFkappaB. *Development Genes and Evolution*, **2003**, 213, 235-44	1.8	117
77	Evolution of bilaterian central nervous systems: a single origin?. *EvoDevo*, **2013**, 4, 27	3.2	110
76	Urochordate betagamma-crystallin and the evolutionary origin of the vertebrate eye lens. *Current Biology*, **2005**, 15, 1684-9	6.3	109
75	The evolution of left-right asymmetry in chordates. *BioEssays*, **2002**, 24, 1004-11	4.1	102
74	Evolutionary crossroads in developmental biology: cyclostomes (lamprey and hagfish). *Development (Cambridge)*, **2012**, 139, 2091-9	6.6	100
73	The murine homeobox gene Msx-3 shows highly restricted expression in the developing neural tube. *Mechanisms of Development*, **1996**, 55, 201-10	1.7	98
72	Phylogenetic relationships of the Fox (Forkhead) gene family in the Bilateria. *Gene*, **2003**, 316, 79-89	3.8	90
71	Characterisation of amphioxus HNF-3 genes: conserved expression in the notochord and floor plate. *Developmental Biology*, **1997**, 183, 74-85	3.1	87
70	An amphioxus Msx gene expressed predominantly in the dorsal neural tube. *Development Genes and Evolution*, **1999**, 209, 260-3	1.8	85
69	The development of the larval nervous system, musculature and ciliary bands of Pomatoceros lamarckii (Annelida): heterochrony in polychaetes. *Frontiers in Zoology*, **2006**, 3, 16	2.8	64
68	Evidence for the regulation of left-right asymmetry in Ciona intestinalis by ion flux. *Developmental Dynamics*, **2006**, 235, 1543-53	2.9	63
67	Genomic sequence and experimental tractability of a new decapod shrimp model, Neocaridina denticulata. *Marine Drugs*, **2014**, 12, 1419-37	6	61
66	The evolutionary history of vertebrate cranial placodes--I: cell type evolution. *Developmental Biology*, **2014**, 389, 82-97	3.1	57

65	Evolutionary genomics of the Fox genes: origin of gene families and the ancestry of gene clusters. *Genomics*, **2010**, 95, 256-60	4.3	56
64	Expression of AmphiCoe, an amphioxus COE/EBF gene, in the developing central nervous system and epidermal sensory neurons. *Genesis*, **2004**, 38, 58-65	1.9	53
63	Protochordate Zic genes define primitive somite compartments and highlight molecular changes underlying neural crest evolution. *Evolution & Development*, **2003**, 5, 136-44	2.6	52
62	The evolution of chordate neural segmentation. *Developmental Biology*, **2002**, 251, 258-70	3.1	50
61	The evolutionary history of vertebrate cranial placodes II. Evolution of ectodermal patterning. *Developmental Biology*, **2014**, 389, 98-119	3.1	47
60	Analysis of a deep transcriptome from the mantle tissue of Patella vulgata Linnaeus (Mollusca: Gastropoda: Patellidae) reveals candidate biomineralising genes. *Marine Biotechnology*, **2013**, 15, 230-43	3.4	44
59	Right across the tree of life: the evolution of left-right asymmetry in the Bilateria. *Genesis*, **2014**, 52, 458-70	1.9	42
58	Pax gene expression in the developing central nervous system of Ciona intestinalis. *Gene Expression Patterns*, **2003**, 3, 743-5	1.5	42
57	The origin and evolution of the ectodermal placodes. *Journal of Anatomy*, **2013**, 222, 32-40	2.9	41
56	Amphioxus molecular biology: insights into vertebrate evolution and developmental mechanisms. *Canadian Journal of Zoology*, **2005**, 83, 90-100	1.5	40
55	Gene duplication and divergence in the early evolution of vertebrates. *Current Opinion in Genetics and Development*, **2002**, 12, 393-6	4.9	40
54	Cloning and expression of a Pitx homeobox gene from the lamprey, a jawless vertebrate. *Development Genes and Evolution*, **2002**, 212, 349-53	1.8	39
53	The Fox genes of Branchiostoma floridae. *Development Genes and Evolution*, **2008**, 218, 629-38	1.8	38
52	Clustered Fox genes in lophotrochozoans and the evolution of the bilaterian Fox gene cluster. *Developmental Biology*, **2010**, 340, 234-48	3.1	37
51	Comparative genomics of vertebrate Fox cluster loci. *BMC Genomics*, **2006**, 7, 271	4.5	37
50	Molecular evidence from ascidians for the evolutionary origin of vertebrate cranial sensory placodes. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2005**, 304, 340-6	1.8	36
49	Cerberus-Nodal-Lefty-Pitx signaling cascade controls leftright asymmetry in amphioxus. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 3684-3689	11.5	35
48	An ancient Fox gene cluster in bilaterian animals. *Current Biology*, **2006**, 16, R314-6	6.3	35

47	A genome-wide view of transcription factor gene diversity in chordate evolution: less gene loss in amphioxus?. *Briefings in Functional Genomics*, **2012**, 11, 177-86	4.9	34
46	An EST screen from the annelid Pomatoceros lamarckii reveals patterns of gene loss and gain in animals. *BMC Evolutionary Biology*, **2009**, 9, 240	3	34
45	Retinoic acid, HOX genes and the anterior-posterior axis in chordates. *BioEssays*, **1996**, 18, 613-616	4.1	34
44	Gene function, gene networks and the fate of duplicated genes. *Seminars in Cell and Developmental Biology*, **1999**, 10, 549-53	7.5	30
43	Symmetrical reproductive compatibility of two species in the Ciona intestinalis (Ascidiacea) species complex, a model for marine genomics and developmental biology. *Zoological Science*, **2014**, 31, 369-74	0.8	29
42	Expression of FoxC, FoxF, FoxL1, and FoxQ1 genes in the dogfish Scyliorhinus canicula defines ancient and derived roles for Fox genes in vertebrate development. *Developmental Dynamics*, **2008**, 237, 1590-603	2.9	28
41	Identification of conserved C2H2 zinc-finger gene families in the Bilateria. *Genome Biology*, **2001**, 2, RESEARCH0016	8.3	27
40	An amphioxus Gli gene reveals conservation of midline patterning and the evolution of hedgehog signalling diversity in chordates. *PLoS ONE*, **2007**, 2, e864	3.7	27
39	The Lophotrochozoan TGF-β signalling cassette - diversification and conservation in a key signalling pathway. *International Journal of Developmental Biology*, **2014**, 58, 533-49	1.9	24
38	C2H2 zinc finger genes of the Gli, Zic, KLF, SP, WilmsRtumour, Huckebein, Snail, Ovo, Spalt, Odd, Blimp-1, Fez and related gene families from Branchiostoma floridae. *Development Genes and Evolution*, **2008**, 218, 639-49	1.8	24
37	An amphioxus netrin gene is expressed in midline structures during embryonic and larval development. *Development Genes and Evolution*, **2000**, 210, 337-44	1.8	24
36	Characterisation of the murine Hox-3.3 gene and its promoter. *Mechanisms of Development*, **1991**, 35, 129-42	1.7	24
35	Draft genome assemblies and predicted microRNA complements of the intertidal lophotrochozoans Patella vulgata (Mollusca, Patellogastropoda) and Spirobranchus (Pomatoceros) lamarcki (Annelida, Serpulida). *Marine Genomics*, **2015**, 24 Pt 2, 139-46	1.9	22
34	Evolutionary conservation of the placodal transcriptional network during sexual and asexual development in chordates. *Developmental Dynamics*, **2013**, 242, 752-66	2.9	21
33	The developmental expression of foxl2 in the dogfish Scyliorhinus canicula. *Gene Expression Patterns*, **2007**, 7, 793-7	1.5	18
32	Phylogenetics of Lophotrochozoan bHLH Genes and the Evolution of Lineage-Specific Gene Duplicates. *Genome Biology and Evolution*, **2017**, 9, 869-886	3.9	16
31	Characterisation of an amphioxus Fringe gene and the evolution of the vertebrate segmentation clock. *Development Genes and Evolution*, **2003**, 213, 505-9	1.8	15
30	The amphioxus FoxQ1 gene is expressed in the developing endostyle. *Gene Expression Patterns*, **2005**, 5, 313-5	1.5	15

29	Molecular basis of canalization in an ascidian species complex adapted to different thermal conditions. *Scientific Reports*, **2015**, 5, 16717	4.9	14
28	Muscle differentiation in a colonial ascidian: organisation, gene expression and evolutionary considerations. *BMC Developmental Biology*, **2009**, 9, 48	3.1	14
27	The formation and positioning of cilia in Ciona intestinalis embryos in relation to the generation and evolution of chordate left-right asymmetry. *Developmental Biology*, **2012**, 364, 214-23	3.1	13
26	Parallel evolution of chordate cis-regulatory code for development. *PLoS Genetics*, **2013**, 9, e1003904	6	13
25	Developmental signature, synaptic connectivity and neurotransmission are conserved between vertebrate hair cells and tunicate coronal cells. *Journal of Comparative Neurology*, **2018**, 526, 957-971	3.4	11
24	Evolution of vertebrate spinal cord patterning. *Developmental Dynamics*, **2019**, 248, 1028-1043	2.9	11
23	A transcriptional modification motif encoded by homeobox and fork head genes. *FEBS Letters*, **1997**, 410, 124-5	3.8	11
22	Chordate betagamma-crystallins and the evolutionary developmental biology of the vertebrate lens. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2007**, 147, 347-57	2.3	11
21	Identification of molecular signatures specific for distinct cranial sensory ganglia in the developing chick. *Neural Development*, **2016**, 11, 3	3.9	10
20	Additive multiple k-mer transcriptome of the keelworm Pomatoceros lamarckii (Annelida; Serpulidae) reveals annelid trochophore transcription factor cassette. *Development Genes and Evolution*, **2012**, 222, 325-39	1.8	10
19	Analysis of lamprey clustered Fox genes: insight into Fox gene evolution and expression in vertebrates. *Gene*, **2011**, 489, 30-40	3.8	10
18	Analysis of a botryllid enriched-full-length cDNA library: insight into the evolution of spliced leader trans-splicing in tunicates. *Development Genes and Evolution*, **2011**, 220, 329-36	1.8	9
17	Expression of a Musashi-like gene in sexual and asexual development of the colonial chordate Botryllus schlosseri and phylogenetic analysis of the protein group. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2011**, 316, 562-73	1.8	9
16	Step-wise evolution of neural patterning by Hedgehog signalling in chordates. *Nature Ecology and Evolution*, **2020**, 4, 1247-1255	12.3	8
15	The structure, splicing, synteny and expression of lamprey COE genes and the evolution of the COE gene family in chordates. *Development Genes and Evolution*, **2017**, 227, 319-338	1.8	7
14	Dissection of a Ciona regulatory element reveals complexity of cross-species enhancer activity. *Developmental Biology*, **2014**, 390, 261-72	3.1	7
13	Calcium turns sinister in left-right asymmetry. *Trends in Genetics*, **2004**, 20, 277-80	8.5	7
12	The evolutionary origins of the vertebrate olfactory system. *Open Biology*, **2020**, 10, 200330	7	7

11	A Notch-regulated proliferative stem cell zone in the developing spinal cord is an ancestral vertebrate trait. *Development (Cambridge)*, **2019**, 146,	6.6	7
10	Transmission and Scanning Electron Microscopy of the Accessory Cells and Chorion During Development of Ciona intestinalis Type B Embryos and the Impact of Their Removal on Cell Morphology. *Zoological Science*, **2015**, 32, 217-22	0.8	6
9	Characterization of two neurogenin genes from the brook lamprey lampetra planeri and their expression in the lamprey nervous system. *Developmental Dynamics*, **2015**, 244, 1096-1108	2.9	6
8	Identification of genes for engineering the male germline of Aedes aegypti and Ceratitis capitata. *BMC Genomics*, **2016**, 17, 948	4.5	5
7	DnaJ chaperones contribute to canalization. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*, **2019**, 331, 201-212	1.9	4
6	Cell-surface changes induced by ectopic expression of the murine homeobox gene Hox-3.3. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1992**, 1136, 253-8	4.9	2
5	Hmx gene conservation identifies the origin of vertebrate cranial ganglia.. *Nature*, **2022**,	50.4	2
4	Live Imaging of Cleavage Variability and Vesicle Flow Dynamics in Dextral and Sinistral Spiralian Embryos. *Zoological Science*, **2019**, 36, 5-16	0.8	1
3	Models for the future. *Development (Cambridge)*, **2009**, 136, 4068-4069	6.6	
2	Peter Holland, homeobox genes, and the developmental basis of animal diversity. *Russian Journal of Developmental Biology*, **2008**, 39, 188-193	0.8	
1	Peter Holland, homeobox genes and the developmental basis of animal diversity. *International Journal of Developmental Biology*, **2008**, 52, 3-7	1.9	