

Sebastian M Shimeld

List of Publications by Year in Descending Order

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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	Hmx gene conservation identifies the origin of vertebrate cranial ganglia.. <i>Nature</i> , 2022 ,	50.4	2
81	The evolutionary origins of the vertebrate olfactory system. <i>Open Biology</i> , 2020 , 10, 200330	7	7
80	Step-wise evolution of neural patterning by Hedgehog signalling in chordates. <i>Nature Ecology and Evolution</i> , 2020 , 4, 1247-1255	12.3	8
79	Evolution of vertebrate spinal cord patterning. <i>Developmental Dynamics</i> , 2019 , 248, 1028-1043	2.9	11
78	Live Imaging of Cleavage Variability and Vesicle Flow Dynamics in Dextral and Sinistral Spiralian Embryos. <i>Zoological Science</i> , 2019 , 36, 5-16	0.8	1
77	DnaJ chaperones contribute to canalization. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2019 , 331, 201-212	1.9	4
76	A Notch-regulated proliferative stem cell zone in the developing spinal cord is an ancestral vertebrate trait. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	7
75	Developmental signature, synaptic connectivity and neurotransmission are conserved between vertebrate hair cells and tunicate coronal cells. <i>Journal of Comparative Neurology</i> , 2018 , 526, 957-971	3.4	11
74	Cerberus-Nodal-Lefty-Pitx signaling cascade controls leftright asymmetry in amphioxus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3684-3689	11.5	35
73	The structure, splicing, synteny and expression of lamprey COE genes and the evolution of the COE gene family in chordates. <i>Development Genes and Evolution</i> , 2017 , 227, 319-338	1.8	7
72	Phylogenetics of Lophotrochozoan bHLH Genes and the Evolution of Lineage-Specific Gene Duplicates. <i>Genome Biology and Evolution</i> , 2017 , 9, 869-886	3.9	16
71	Identification of molecular signatures specific for distinct cranial sensory ganglia in the developing chick. <i>Neural Development</i> , 2016 , 11, 3	3.9	10
70	Identification of genes for engineering the male germline of <i>Aedes aegypti</i> and <i>Ceratitis capitata</i> . <i>BMC Genomics</i> , 2016 , 17, 948	4.5	5
69	Transmission and Scanning Electron Microscopy of the Accessory Cells and Chorion During Development of <i>Ciona intestinalis</i> Type B Embryos and the Impact of Their Removal on Cell Morphology. <i>Zoological Science</i> , 2015 , 32, 217-22	0.8	6
68	Draft genome assemblies and predicted microRNA complements of the intertidal lophotrochozoans <i>Patella vulgata</i> (Mollusca, Patellogastropoda) and <i>Spirobranchus lamarcki</i> (Annelida, Serpulida). <i>Marine Genomics</i> , 2015 , 24 Pt 2, 139-46	1.9	22
67	Molecular basis of canalization in an ascidian species complex adapted to different thermal conditions. <i>Scientific Reports</i> , 2015 , 5, 16717	4.9	14
66	Characterization of two neurogenin genes from the brook lamprey <i>lampetra planeri</i> and their expression in the lamprey nervous system. <i>Developmental Dynamics</i> , 2015 , 244, 1096-1108	2.9	6

65	The evolutionary history of vertebrate cranial placodes II. Evolution of ectodermal patterning. <i>Developmental Biology</i> , 2014 , 389, 98-119	3.1	47
64	The evolutionary history of vertebrate cranial placodes--I: cell type evolution. <i>Developmental Biology</i> , 2014 , 389, 82-97	3.1	57
63	Right across the tree of life: the evolution of left-right asymmetry in the Bilateria. <i>Genesis</i> , 2014 , 52, 458-470	1.0	42
62	Symmetrical reproductive compatibility of two species in the <i>Ciona intestinalis</i> (Ascidiacea) species complex, a model for marine genomics and developmental biology. <i>Zoological Science</i> , 2014 , 31, 369-74	0.8	29
61	Genomic sequence and experimental tractability of a new decapod shrimp model, <i>Neocaridina denticulata</i> . <i>Marine Drugs</i> , 2014 , 12, 1419-37	6	61
60	The Lophotrochozoan TGF- β signalling cassette - diversification and conservation in a key signalling pathway. <i>International Journal of Developmental Biology</i> , 2014 , 58, 533-49	1.9	24
59	Dissection of a <i>Ciona</i> regulatory element reveals complexity of cross-species enhancer activity. <i>Developmental Biology</i> , 2014 , 390, 261-72	3.1	7
58	Evolution of bilaterian central nervous systems: a single origin?. <i>EvoDevo</i> , 2013 , 4, 27	3.2	110
57	Analysis of a deep transcriptome from the mantle tissue of <i>Patella vulgata</i> Linnaeus (Mollusca: Gastropoda: Patellidae) reveals candidate biomineralising genes. <i>Marine Biotechnology</i> , 2013 , 15, 230-43 ^{3,4}	3.4	44
56	The origin and evolution of the ectodermal placodes. <i>Journal of Anatomy</i> , 2013 , 222, 32-40	2.9	41
55	Parallel evolution of chordate cis-regulatory code for development. <i>PLoS Genetics</i> , 2013 , 9, e1003904	6	13
54	Evolutionary conservation of the placodal transcriptional network during sexual and asexual development in chordates. <i>Developmental Dynamics</i> , 2013 , 242, 752-66	2.9	21
53	The formation and positioning of cilia in <i>Ciona intestinalis</i> embryos in relation to the generation and evolution of chordate left-right asymmetry. <i>Developmental Biology</i> , 2012 , 364, 214-23	3.1	13
52	Additive multiple k-mer transcriptome of the keelworm <i>Pomatoceros lamarckii</i> (Annelida; Serpulidae) reveals annelid trochophore transcription factor cassette. <i>Development Genes and Evolution</i> , 2012 , 222, 325-39	1.8	10
51	A genome-wide view of transcription factor gene diversity in chordate evolution: less gene loss in amphioxus?. <i>Briefings in Functional Genomics</i> , 2012 , 11, 177-86	4.9	34
50	Evolutionary crossroads in developmental biology: cyclostomes (lamprey and hagfish). <i>Development (Cambridge)</i> , 2012 , 139, 2091-9	6.6	100
49	Analysis of lamprey clustered Fox genes: insight into Fox gene evolution and expression in vertebrates. <i>Gene</i> , 2011 , 489, 30-40	3.8	10
48	Analysis of a botryllid enriched-full-length cDNA library: insight into the evolution of spliced leader trans-splicing in tunicates. <i>Development Genes and Evolution</i> , 2011 , 220, 329-36	1.8	9

47	Expression of a Musashi-like gene in sexual and asexual development of the colonial chordate <i>Botryllus schlosseri</i> and phylogenetic analysis of the protein group. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2011 , 316, 562-73	1.8	9
46	Clustered Fox genes in lophotrochozoans and the evolution of the bilaterian Fox gene cluster. <i>Developmental Biology</i> , 2010 , 340, 234-48	3.1	37
45	Evolutionary genomics of the Fox genes: origin of gene families and the ancestry of gene clusters. <i>Genomics</i> , 2010 , 95, 256-60	4.3	56
44	Models for the future. <i>Development (Cambridge)</i> , 2009 , 136, 4068-4069	6.6	
43	An EST screen from the annelid <i>Pomatoceros lamarckii</i> reveals patterns of gene loss and gain in animals. <i>BMC Evolutionary Biology</i> , 2009 , 9, 240	3	34
42	Muscle differentiation in a colonial ascidian: organisation, gene expression and evolutionary considerations. <i>BMC Developmental Biology</i> , 2009 , 9, 48	3.1	14
41	Genesis and expansion of metazoan transcription factor gene classes. <i>Molecular Biology and Evolution</i> , 2008 , 25, 980-96	8.3	221
40	The Fox genes of <i>Branchiostoma floridae</i> . <i>Development Genes and Evolution</i> , 2008 , 218, 629-38	1.8	38
39	C2H2 zinc finger genes of the Gli, Zic, KLF, SP, WilmsRtumour, Hucklebein, Snail, Ovo, Spalt, Odd, Blimp-1, Fez and related gene families from <i>Branchiostoma floridae</i> . <i>Development Genes and Evolution</i> , 2008 , 218, 639-49	1.8	24
38	Expression of FoxC, FoxF, FoxL1, and FoxQ1 genes in the dogfish <i>Scyliorhinus canicula</i> defines ancient and derived roles for Fox genes in vertebrate development. <i>Developmental Dynamics</i> , 2008 , 237, 1590-603	2.9	28
37	Peter Holland, homeobox genes, and the developmental basis of animal diversity. <i>Russian Journal of Developmental Biology</i> , 2008 , 39, 188-193	0.8	
36	Peter Holland, homeobox genes and the developmental basis of animal diversity. <i>International Journal of Developmental Biology</i> , 2008 , 52, 3-7	1.9	
35	The developmental expression of foxl2 in the dogfish <i>Scyliorhinus canicula</i> . <i>Gene Expression Patterns</i> , 2007 , 7, 793-7	1.5	18
34	Chordate betagamma-crystallins and the evolutionary developmental biology of the vertebrate lens. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2007 , 147, 347-57	2.3	11
33	An amphioxus Gli gene reveals conservation of midline patterning and the evolution of hedgehog signalling diversity in chordates. <i>PLoS ONE</i> , 2007 , 2, e864	3.7	27
32	An ancient Fox gene cluster in bilaterian animals. <i>Current Biology</i> , 2006 , 16, R314-6	6.3	35
31	Comparative genomics of vertebrate Fox cluster loci. <i>BMC Genomics</i> , 2006 , 7, 271	4.5	37
30	Evidence for the regulation of left-right asymmetry in <i>Ciona intestinalis</i> by ion flux. <i>Developmental Dynamics</i> , 2006 , 235, 1543-53	2.9	63

29	The development of the larval nervous system, musculature and ciliary bands of <i>Pomatoceros lamarckii</i> (Annelida): heterochrony in polychaetes. <i>Frontiers in Zoology</i> , 2006 , 3, 16	2.8	64
28	Molecular evidence from <i>Ciona intestinalis</i> for the evolutionary origin of vertebrate sensory placodes. <i>Developmental Biology</i> , 2005 , 282, 494-508	3.1	132
27	Urochordate betagamma-crystallin and the evolutionary origin of the vertebrate eye lens. <i>Current Biology</i> , 2005 , 15, 1684-9	6.3	109
26	The amphioxus FoxQ1 gene is expressed in the developing endostyle. <i>Gene Expression Patterns</i> , 2005 , 5, 313-5	1.5	15
25	Molecular evidence from ascidians for the evolutionary origin of vertebrate cranial sensory placodes. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005 , 304, 340-6	1.8	36
24	Amphioxus molecular biology: insights into vertebrate evolution and developmental mechanisms. <i>Canadian Journal of Zoology</i> , 2005 , 83, 90-100	1.5	40
23	Calcium turns sinister in left-right asymmetry. <i>Trends in Genetics</i> , 2004 , 20, 277-80	8.5	7
22	Expression of <i>AmphiCoe</i> , an amphioxus COE/EBF gene, in the developing central nervous system and epidermal sensory neurons. <i>Genesis</i> , 2004 , 38, 58-65	1.9	53
21	A genomewide survey of developmentally relevant genes in <i>Ciona intestinalis</i> . III. Genes for Fox, ETS, nuclear receptors and NFkappaB. <i>Development Genes and Evolution</i> , 2003 , 213, 235-44	1.8	117
20	Characterisation of an amphioxus <i>Fringe</i> gene and the evolution of the vertebrate segmentation clock. <i>Development Genes and Evolution</i> , 2003 , 213, 505-9	1.8	15
19	<i>Pax</i> gene expression in the developing central nervous system of <i>Ciona intestinalis</i> . <i>Gene Expression Patterns</i> , 2003 , 3, 743-5	1.5	42
18	Protochordate <i>Zic</i> genes define primitive somite compartments and highlight molecular changes underlying neural crest evolution. <i>Evolution & Development</i> , 2003 , 5, 136-44	2.6	52
17	Phylogenetic relationships of the Fox (Forkhead) gene family in the Bilateria. <i>Gene</i> , 2003 , 316, 79-89	3.8	90
16	The evolution of left-right asymmetry in chordates. <i>BioEssays</i> , 2002 , 24, 1004-11	4.1	102
15	Cloning and expression of a <i>Pitx</i> homeobox gene from the lamprey, a jawless vertebrate. <i>Development Genes and Evolution</i> , 2002 , 212, 349-53	1.8	39
14	<i>Pitx</i> homeobox genes in <i>Ciona</i> and amphioxus show left-right asymmetry is a conserved chordate character and define the ascidian adenohipophysis. <i>Evolution & Development</i> , 2002 , 4, 354-65	2.6	125
13	The evolution of chordate neural segmentation. <i>Developmental Biology</i> , 2002 , 251, 258-70	3.1	50
12	Gene duplication and divergence in the early evolution of vertebrates. <i>Current Opinion in Genetics and Development</i> , 2002 , 12, 393-6	4.9	40

11	Identification of conserved C2H2 zinc-finger gene families in the Bilateria. <i>Genome Biology</i> , 2001 , 2, RESEARCH ARTICLE 1016		
10	An amphioxus netrin gene is expressed in midline structures during embryonic and larval development. <i>Development Genes and Evolution</i> , 2000 , 210, 337-44	1.8	24
9	The evolution of the hedgehog gene family in chordates: insights from amphioxus hedgehog. <i>Development Genes and Evolution</i> , 1999 , 209, 40-7	1.8	132
8	An amphioxus Msx gene expressed predominantly in the dorsal neural tube. <i>Development Genes and Evolution</i> , 1999 , 209, 260-3	1.8	85
7	Gene function, gene networks and the fate of duplicated genes. <i>Seminars in Cell and Developmental Biology</i> , 1999 , 10, 549-53	7.5	30
6	Characterisation of amphioxus HNF-3 genes: conserved expression in the notochord and floor plate. <i>Developmental Biology</i> , 1997 , 183, 74-85	3.1	87
5	A transcriptional modification motif encoded by homeobox and fork head genes. <i>FEBS Letters</i> , 1997 , 410, 124-5	3.8	11
4	The murine homeobox gene Msx-3 shows highly restricted expression in the developing neural tube. <i>Mechanisms of Development</i> , 1996 , 55, 201-10	1.7	98
3	Retinoic acid, HOX genes and the anterior-posterior axis in chordates. <i>BioEssays</i> , 1996 , 18, 613-616	4.1	34
2	Cell-surface changes induced by ectopic expression of the murine homeobox gene Hox-3.3. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1992 , 1136, 253-8	4.9	2
1	Characterisation of the murine Hox-3.3 gene and its promoter. <i>Mechanisms of Development</i> , 1991 , 35, 129-42	1.7	24