

Andrew J Copp

List of Publications by Year in descending order

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213
papers

16,118
citations

16451

64
h-index

19749

117
g-index

258
all docs

258
docs citations

258
times ranked

12886
citing authors

#	ARTICLE	IF	CITATIONS
1	The genetic basis of mammalian neurulation. <i>Nature Reviews Genetics</i> , 2003, 4, 784-793.	16.3	608
2	Mutation of <i>Celsr1</i> Disrupts Planar Polarity of Inner Ear Hair Cells and Causes Severe Neural Tube Defects in the Mouse. <i>Current Biology</i> , 2003, 13, 1129-1133.	3.9	552
3	Neural tube defects: recent advances, unsolved questions, and controversies. <i>Lancet Neurology</i> , The, 2013, 12, 799-810.	10.2	549
4	Disruption of Bardet-Biedl syndrome ciliary proteins perturbs planar cell polarity in vertebrates. <i>Nature Genetics</i> , 2005, 37, 1135-1140.	21.4	536
5	FOXP2 and the neuroanatomy of speech and language. <i>Nature Reviews Neuroscience</i> , 2005, 6, 131-138.	10.2	472
6	Neural Tube Defects. <i>Annual Review of Neuroscience</i> , 2014, 37, 221-242.	10.7	465
7	Spina bifida. <i>Nature Reviews Disease Primers</i> , 2015, 1, 15007.	30.5	427
8	Neural tube closure: cellular, molecular and biomechanical mechanisms. <i>Development (Cambridge)</i> , 2017, 144, 552-566.	2.5	402
9	Genetics and development of neural tube defects. <i>Journal of Pathology</i> , 2010, 220, 217-230.	4.5	391
10	Death before birth: clues from gene knockouts and mutations. <i>Trends in Genetics</i> , 1995, 11, 87-93.	6.7	351
11	The embryonic development of mammalian neural tube defects. <i>Progress in Neurobiology</i> , 1990, 35, 363-403.	5.7	322
12	FOXP2 expression during brain development coincides with adult sites of pathology in a severe speech and language disorder. <i>Brain</i> , 2003, 126, 2455-2462.	7.6	313
13	Convergent extension, planar-cell-polarity signalling and initiation of mouse neural tube closure. <i>Development (Cambridge)</i> , 2007, 134, 789-799.	2.5	284
14	Genetics of human neural tube defects. <i>Human Molecular Genetics</i> , 2009, 18, R113-R129.	2.9	267
15	Disruption of scribble (<i>Scrb1</i>) causes severe neural tube defects in the circletail mouse. <i>Human Molecular Genetics</i> , 2003, 12, 87-98.	2.9	266
16	The Meckel-Gruber Syndrome proteins MKS1 and meckelin interact and are required for primary cilium formation. <i>Human Molecular Genetics</i> , 2007, 16, 173-186.	2.9	245
17	The chromosome 6p22 haplotype associated with dyslexia reduces the expression of KIAA0319, a novel gene involved in neuronal migration. <i>Human Molecular Genetics</i> , 2006, 15, 1659-1666.	2.9	240
18	Embryonic Folate Metabolism and Mouse Neural Tube Defects. <i>Science</i> , 1998, 280, 2107-2109.	12.6	230

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19	In vivo genetic ablation by Cre-mediated expression of diphtheria toxin fragment A. <i>Genesis</i> , 2005, 43, 129-135.	1.6	218
20	Inositol prevents folate-resistant neural tube defects in the mouse. <i>Nature Medicine</i> , 1997, 3, 60-66.	30.7	204
21	Neural tube defects—disorders of neurulation and related embryonic processes. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2013, 2, 213-227.	5.9	181
22	Vangl2 Acts via RhoA Signaling to Regulate Polarized Cell Movements During Development of the Proximal Outflow Tract. <i>Circulation Research</i> , 2005, 96, 292-299.	4.5	166
23	Mutations in the planar cell polarity genes <i>CELSR1</i> and <i>SCRIB</i> are associated with the severe neural tube defect craniorachischisis. <i>Human Mutation</i> , 2012, 33, 440-447.	2.5	166
24	The relationship between sonic Hedgehog signaling, cilia, and neural tube defects. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2010, 88, 633-652.	1.6	165
25	Development of the vertebrate central nervous system: formation of the neural tube. <i>Prenatal Diagnosis</i> , 2009, 29, 303-311.	2.3	158
26	A gene for autosomal dominant sacral agenesis maps to the holoprosencephaly region at 7q36. <i>Nature Genetics</i> , 1995, 11, 93-95.	21.4	150
27	Folic acid prevents exencephaly in <i>Cited2</i> deficient mice. <i>Human Molecular Genetics</i> , 2002, 11, 283-293.	2.9	145
28	Sonic hedgehog and the molecular regulation of mouse neural tube closure. <i>Development (Cambridge)</i> , 2002, 129, 2507-2517.	2.5	145
29	Abnormalities of floor plate, notochord and somite differentiation in the loop-tail (Lp) mouse: a model of severe neural tube defects. <i>Mechanisms of Development</i> , 1998, 73, 59-72.	1.7	143
30	Neural plate morphogenesis during mouse neurulation is regulated by antagonism of Bmp signalling. <i>Development (Cambridge)</i> , 2007, 134, 3203-3211.	2.5	140
31	Neurulation in the cranial region—normal and abnormal. <i>Journal of Anatomy</i> , 2005, 207, 623-635.	1.5	139
32	Development of a lethal congenital heart defect in the splotch (<i>Pax3</i>) mutant mouse. <i>Cardiovascular Research</i> , 1997, 36, 163-173.	3.8	126
33	Multifactorial inheritance of neural tube defects: localization of the major gene and recognition of modifiers in <i>ct</i> mutant mice. <i>Nature Genetics</i> , 1994, 6, 357-362.	21.4	119
34	Glycine decarboxylase deficiency causes neural tube defects and features of non-ketotic hyperglycinemia in mice. <i>Nature Communications</i> , 2015, 6, 6388.	12.8	116
35	A roadmap for the Human Developmental Cell Atlas. <i>Nature</i> , 2021, 597, 196-205.	27.8	114
36	Disruption of Planar Cell Polarity Signaling Results in Congenital Heart Defects and Cardiomyopathy Attributable to Early Cardiomyocyte Disorganization. <i>Circulation Research</i> , 2007, 101, 137-145.	4.5	109

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37	Regional differences in morphogenesis of the neuroepithelium suggest multiple mechanisms of spinal neurulation in the mouse. <i>Anatomy and Embryology</i> , 1996, 194, 65-73.	1.5	106
38	Curly tail: a 50-year history of the mouse spina bifida model. <i>Anatomy and Embryology</i> , 2001, 203, 225-238.	1.5	106
39	Versican Expression Is Associated With Chamber Specification, Septation, and Valvulogenesis in the Developing Mouse Heart. <i>Circulation Research</i> , 1998, 83, 523-532.	4.5	104
40	Mouse models of neural tube defects: Investigating preventive mechanisms. <i>American Journal of Medical Genetics, Part C: Seminars in Medical Genetics</i> , 2005, 135C, 31-41.	1.6	101
41	Mutations in genes encoding the glycine cleavage system predispose to neural tube defects in mice and humans. <i>Human Molecular Genetics</i> , 2012, 21, 1496-1503.	2.9	100
42	Gene-environment interactions in the causation of neural tube defects: folate deficiency increases susceptibility conferred by loss of Pax3 function. <i>Human Molecular Genetics</i> , 2008, 17, 3675-3685.	2.9	99
43	Bending of the neural plate during mouse spinal neurulation is independent of actin microfilaments. <i>Developmental Dynamics</i> , 1999, 215, 273-283.	1.8	97
44	Over-expression of the chondroitin sulphate proteoglycan versican is associated with defective neural crest migration in the Pax3 mutant mouse (splotch). <i>Mechanisms of Development</i> , 1997, 69, 39-51.	1.7	92
45	Biomechanical coupling facilitates spinal neural tube closure in mouse embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5177-E5186.	7.1	92
46	Infectious causes of microcephaly: epidemiology, pathogenesis, diagnosis, and management. <i>Lancet Infectious Diseases</i> , The, 2018, 18, e1-e13.	9.1	92
47	Retinoic acid induces down-regulation of Wnt-3a, apoptosis and diversion of tail bud cells to a neural fate in the mouse embryo. <i>Mechanisms of Development</i> , 1999, 84, 17-30.	1.7	89
48	Circletail, a New Mouse Mutant with Severe Neural Tube Defects: Chromosomal Localization and Interaction with the Loop-Tail Mutation. <i>Genomics</i> , 2001, 78, 55-63.	2.9	89
49	Integrity of the methylation cycle is essential for mammalian neural tube closure. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2006, 76, 544-552.	1.6	87
50	Cordon-bleu is a conserved gene involved in neural tube formation. <i>Developmental Biology</i> , 2003, 262, 16-31.	2.0	86
51	FGF2 promotes skeletogenic differentiation of cranial neural crest cells. <i>Development (Cambridge)</i> , 2001, 128, 2143-2152.	2.5	85
52	Apoptosis is not required for mammalian neural tube closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8233-8238.	7.1	83
53	Regulation of cell protrusions by small GTPases during fusion of the neural folds. <i>ELife</i> , 2016, 5, e13273.	6.0	80
54	Enabling research with human embryonic and fetal tissue resources. <i>Development (Cambridge)</i> , 2015, 142, 3073-3076.	2.5	79

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55	Neural Crest is Involved in Development of Abnormal Myocardial Function. <i>Journal of Molecular and Cellular Cardiology</i> , 1997, 29, 2675-2685.	1.9	77
56	Interactions between planar cell polarity genes cause diverse neural tube defects. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 1153-63.	2.4	77
57	Maternal Diabetes Increases the Risk of Caudal Regression Caused by Retinoic Acid. <i>Diabetes</i> , 2002, 51, 2811-2816.	0.6	74
58	Rib Truncations and Fusions in the Sp2HMouse Reveal a Role for Pax3 in Specification of the Ventro-lateral and Posterior Parts of the Somite. <i>Developmental Biology</i> , 1999, 209, 143-158.	2.0	73
59	Increased expression of Grainyhead-like-3 rescues spina bifida in a folate-resistant mouse model. <i>Human Molecular Genetics</i> , 2007, 16, 2640-2646.	2.9	73
60	Cardiovascular Defects Associated With Abnormalities in Midline Development in the <i>Loop-tail</i> Mouse Mutant. <i>Circulation Research</i> , 2001, 89, 6-12.	4.5	72
61	HDBR Expression: A Unique Resource for Global and Individual Gene Expression Studies during Early Human Brain Development. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 86.	1.7	72
62	Developmental Basis of Severe Neural Tube Defects in the <i>loop-tail</i> (Lp) Mutant Mouse: Use of Microsatellite DNA Markers to Identify Embryonic Genotype. <i>Developmental Biology</i> , 1994, 165, 20-29.	2.0	71
63	Rho kinase-dependent actin turnover and actomyosin disassembly are necessary for mouse spinal neural tube closure. <i>Journal of Cell Science</i> , 2015, 128, 2468-81.	2.0	70
64	Etiology and pathogenesis of human neural tube defects. <i>Current Opinion in Pediatrics</i> , 1994, 6, 624-631.	2.0	69
65	Role of Sonic hedgehog in the development of the trachea and oesophagus. <i>Journal of Pediatric Surgery</i> , 2003, 38, 29-36.	1.6	69
66	Partitioning of One-Carbon Units in Folate and Methionine Metabolism Is Essential for Neural Tube Closure. <i>Cell Reports</i> , 2017, 21, 1795-1808.	6.4	69
67	Sonic hedgehog and the molecular regulation of mouse neural tube closure. <i>Development (Cambridge)</i> , 2002, 129, 2507-17.	2.5	68
68	Inositols: From Established Knowledge to Novel Approaches. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10575.	4.1	67
69	Expression of PACAP, and PACAP type 1 (PAC1) receptor mRNA during development of the mouse embryo. <i>Developmental Brain Research</i> , 1998, 109, 245-253.	1.7	65
70	Deciphering the Mechanisms of Developmental Disorders (DMDD): a new programme for phenotyping embryonic lethal mice. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 562-6.	2.4	65
71	Cellular basis of neuroepithelial bending during mouse spinal neural tube closure. <i>Developmental Biology</i> , 2015, 404, 113-124.	2.0	64
72	Role of the extracellular matrix in neural crest cell migration. <i>Journal of Anatomy</i> , 1997, 191, 507-515.	1.5	63

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73	Bloomsbury report on mouse embryo phenotyping: recommendations from the IMPC workshop on embryonic lethal screening. DMM Disease Models and Mechanisms, 2013, 6, 571-9.	2.4	63
74	Accumulation of basement membrane-associated hyaluronate is reduced in the posterior neuropore region of mutant (curly tail) mouse embryos developing spinal neural tube defects. Developmental Biology, 1988, 130, 583-590.	2.0	61
75	A Curly-Tail Modifier Locus, <i>mct1</i> , on Mouse Chromosome 17. Genomics, 1995, 29, 719-724.	2.9	61
76	Split cervical spinal cord with Klippel-Feil syndrome: seven cases. Brain, 1996, 119, 1859-1872.	7.6	59
77	Inositol, neural tube closure and the prevention of neural tube defects. Birth Defects Research, 2017, 109, 68-80.	1.5	58
78	Embryology of oesophageal atresia. Seminars in Pediatric Surgery, 2009, 18, 2-11.	1.1	57
79	Homocysteine is embryotoxic but does not cause neural tube defects in mouse embryos. Anatomy and Embryology, 2003, 206, 185-191.	1.5	56
80	Dishevelled: linking convergent extension with neural tube closure. Trends in Neurosciences, 2003, 26, 453-455.	8.6	56
81	Dorsoventral patterning in oesophageal atresia with tracheo-oesophageal fistula: Evidence from a new mouse model. Journal of Pediatric Surgery, 2002, 37, 185-191.	1.6	55
82	Cardiac neural crest of the mouse embryo: axial level of origin, migratory pathway and cell autonomy of the <i>spatch</i> (<i>Sp2H</i>) mutant effect. Development (Cambridge), 2004, 131, 3367-3379.	2.5	54
83	Foregut separation and tracheo-oesophageal malformations: The role of tracheal outgrowth, dorso-ventral patterning and programmed cell death. Developmental Biology, 2010, 337, 351-362.	2.0	54
84	Specific isoforms of protein kinase C are essential for prevention of folate-resistant neural tube defects by inositol. Human Molecular Genetics, 2003, 13, 7-14.	2.9	53
85	Neuronal migration disorders in humans and in mouse models – an overview. Epilepsy Research, 1999, 36, 133-141.	1.6	52
86	D-chiro-inositol is more effective than myo-inositol in preventing folate-resistant mouse neural tube defects. Human Reproduction, 2002, 17, 2451-2458.	0.9	52
87	Fetal spina bifida in a mouse model: loss of neural function in utero. Journal of Neurosurgery: Pediatrics, 2007, 106, 213-221.	1.3	52
88	Neural tube closure in the chick embryo is multiphasic. , 1996, 207, 309-318.		51
89	Over-expression of <i>Grhl2</i> causes spina bifida in the Axial defects mutant mouse. Human Molecular Genetics, 2011, 20, 1536-1546.	2.9	50
90	Blocking Endogenous FGF-2 Activity Prevents Cranial Osteogenesis. Developmental Biology, 2002, 243, 99-114.	2.0	49

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91	Abnormal folate metabolism in fetuses affected by neural tube defects. <i>Brain</i> , 2006, 130, 1043-1049.	7.6	48
92	Analysis of the planar cell polarity gene <i>Vangl2</i> and its co-expressed paralogue <i>Vangl1</i> in neural tube defect patients. <i>American Journal of Medical Genetics, Part A</i> , 2005, 136A, 90-92.	1.2	47
93	Excess methionine suppresses the methylation cycle and inhibits neural tube closure in mouse embryos. <i>FEBS Letters</i> , 2006, 580, 2803-2807.	2.8	47
94	Integrin-Mediated Focal Anchorage Drives Epithelial Zippering during Mouse Neural Tube Closure. <i>Developmental Cell</i> , 2020, 52, 321-334.e6.	7.0	46
95	Prevention of spinal neural tube defects in the curly tail mouse mutant by a specific effect of retinoic acid. <i>Developmental Dynamics</i> , 1994, 199, 93-102.	1.8	45
96	EphrinA-EphA receptor interactions in mouse spinal neurulation: implications for neural fold fusion. <i>International Journal of Developmental Biology</i> , 2009, 53, 559-568.	0.6	44
97	Epithelial fusion during neural tube morphogenesis. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2012, 94, 817-823.	1.6	44
98	Inositol for the prevention of neural tube defects: a pilot randomised controlled trial. <i>British Journal of Nutrition</i> , 2016, 115, 974-983.	2.3	44
99	Spinal neural tube closure depends on regulation of surface ectoderm identity and biomechanics by <i>Grhl2</i> . <i>Nature Communications</i> , 2019, 10, 2487.	12.8	44
100	<i>Zic4</i> , a zinc-finger transcription factor, is expressed in the developing mouse nervous system. <i>Developmental Dynamics</i> , 2005, 233, 1110-1115.	1.8	43
101	Quantitative analysis of myo-inositol in urine, blood and nutritional supplements by high-performance liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 2759-2763.	2.3	42
102	<i>Vangl2</i> disruption alters the biomechanics of late spinal neurulation leading to spina bifida in mouse embryos. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	42
103	Knowledge and preconceptional use of folic acid for the prevention of neural tube defects in ethnic communities in the United Kingdom: Systematic review and meta-analysis. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2013, 97, 444-451.	1.6	41
104	Knockout of the PKN Family of Rho Effector Kinases Reveals a Non-redundant Role for PKN2 in Developmental Mesoderm Expansion. <i>Cell Reports</i> , 2016, 14, 440-448.	6.4	40
105	Grainyhead genes and mammalian neural tube closure. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2008, 82, 728-735.	1.6	39
106	Understanding the causes and prevention of neural tube defects: Insights from the <i>splotch</i> mouse model. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2009, 85, 322-330.	1.6	38
107	Neurulation and Neural Tube Closure Defects. , 2000, 136, 135-160.		37
108	Expression pattern of <i>glypican4</i> suggests multiple roles during mouse development. <i>Developmental Dynamics</i> , 2005, 233, 1013-1017.	1.8	37

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109	Lamin B1 Polymorphism Influences Morphology of the Nuclear Envelope, Cell Cycle Progression, and Risk of Neural Tube Defects in Mice. <i>PLoS Genetics</i> , 2012, 8, e1003059.	3.5	37
110	Syndecan 4 interacts genetically with Vangl2 to regulate neural tube closure and planar cell polarity. <i>Development (Cambridge)</i> , 2013, 140, 3008-3017.	2.5	37
111	Covergowns and the Control of Operating Room Contamination. <i>Nursing Research</i> , 1986, 35, 263-268.	1.7	34
112	Quantitative analysis of s-adenosylmethionine and s-adenosylhomocysteine in neurulation-stage mouse embryos by liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 844, 112-118.	2.3	34
113	Microtubules, polarity and vertebrate neural tube morphogenesis. <i>Journal of Anatomy</i> , 2016, 229, 63-74.	1.5	34
114	Prevention of neural tube defects: vitamins, enzymes and genes. <i>Current Opinion in Neurology</i> , 1998, 11, 97-102.	3.6	33
115	Differential Protein Expression at the Stage of Neural Tube Closure in the Mouse Embryo. <i>Journal of Biological Chemistry</i> , 2002, 277, 41645-41651.	3.4	32
116	Vangl-dependent planar cell polarity signalling is not required for neural crest migration in mammals. <i>Development (Cambridge)</i> , 2014, 141, 3153-3158.	2.5	32
117	Glycosaminoglycans vary in accumulation along the neuraxis during spinal neurulation in the mouse embryo. <i>Developmental Biology</i> , 1988, 130, 573-582.	2.0	31
118	Relationship between altered axial curvature and neural tube closure in normal and mutant (curly) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	31
119	Retinal axon misrouting at the optic chiasm in mice with neural tube closure defects. <i>Genesis</i> , 2000, 27, 32-47.	1.6	31
120	RhoB is expressed in migrating neural crest and endocardial cushions of the developing mouse embryo. <i>Mechanisms of Development</i> , 2000, 95, 211-214.	1.7	31
121	The genetic background of the curly tail strain confers susceptibility to folate deficiency-induced exencephaly. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2010, 88, 76-83.	1.6	31
122	Heparan sulphate proteoglycans and spinal neurulation in the mouse embryo. <i>Development (Cambridge)</i> , 2002, 129, 2109-2119.	2.5	31
123	Genetic basis of neural tube defects: the mouse gene loop-tail maps to a region of chromosome 1 syntenic with human 1q21-q23. <i>Genomics</i> , 1995, 26, 473-478.	2.9	30
124	Failure of neural tube closure in the loop-tail (Lp) mutant mouse: analysis of the embryonic mechanism. <i>Developmental Brain Research</i> , 1997, 102, 217-224.	1.7	30
125	Amniotic fluid brain-specific proteins are biomarkers for spinal cord injury in experimental myelomeningocele. <i>Journal of Neurochemistry</i> , 2005, 95, 594-598.	3.9	30
126	Sequence and expression analysis of Nhlh1: a basic helix-loop-helix gene implicated in neurogenesis. <i>Genesis</i> , 1999, 24, 165-177.	2.1	29

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127	CLN-1 and CLN-5, genes for infantile and variant late infantile neuronal ceroid lipofuscinoses, are expressed in the embryonic human brain. <i>Journal of Comparative Neurology</i> , 2000, 426, 406-412.	1.6	29
128	A targeted sequencing panel identifies rare damaging variants in multiple genes in the cranial neural tube defect, anencephaly. <i>Clinical Genetics</i> , 2018, 93, 870-879.	2.0	29
129	Folate metabolite profiling of different cell types and embryos suggests variation in folate one-carbon metabolism, including developmental changes in human embryonic brain. <i>Molecular and Cellular Biochemistry</i> , 2013, 378, 229-236.	3.1	28
130	Neural tube defects. <i>Trends in Neurosciences</i> , 1993, 16, 381-383.	8.6	27
131	Cloning and Characterization of Igsf9 in Mouse and Human: A New Member of the Immunoglobulin Superfamily Expressed in the Developing Nervous System. <i>Genomics</i> , 2002, 79, 663-670.	2.9	27
132	Multiple coexistent dysraphic pathologies. <i>Child's Nervous System</i> , 2003, 19, 376-379.	1.1	27
133	Paralogous Sm22 \pm (Tagln) Genes Map to Mouse Chromosomes 1 and 9: Further Evidence for a Paralogous Relationship. <i>Genomics</i> , 1998, 51, 144-147.	2.9	26
134	Induction of chondrogenesis in neural crest cells by mutant fibroblast growth factor receptors. <i>Developmental Dynamics</i> , 2002, 224, 210-221.	1.8	26
135	Nucleotide precursors prevent folic acid-resistant neural tube defects in the mouse. <i>Brain</i> , 2013, 136, 2836-2841.	7.6	25
136	Maternal Inositol Status and Neural Tube Defects: A Role for the Human Yolk Sac in Embryonic Inositol Delivery?. <i>Advances in Nutrition</i> , 2021, 12, 212-222.	6.4	25
137	Dolutegravir in pregnant mice is associated with increased rates of fetal defects at therapeutic but not at supratherapeutic levels. <i>EBioMedicine</i> , 2021, 63, 103167.	6.1	25
138	MRCâ€™s Wellcome Trust Human Developmental Biology Resource: enabling studies of human developmental gene expression. <i>Trends in Genetics</i> , 2005, 21, 586-590.	6.7	24
139	Neural tube closure depends on expression of Grainyhead-like 3 in multiple tissues. <i>Developmental Biology</i> , 2018, 435, 130-137.	2.0	24
140	Cell non-autonomy amplifies disruption of neurulation by mosaic Vangl2 deletion in mice. <i>Nature Communications</i> , 2021, 12, 1159.	12.8	24
141	Convergent Extension Analysis in Mouse Whole Embryo Culture. <i>Methods in Molecular Biology</i> , 2012, 839, 133-146.	0.9	24
142	Evaluation of folate metabolism gene polymorphisms as risk factors for open and closed neural tube defects. <i>American Journal of Medical Genetics, Part A</i> , 2009, 149A, 1585-1589.	1.2	23
143	Regional differences in the expression of laminin isoforms during mouse neural tube development. <i>Matrix Biology</i> , 2011, 30, 301-309.	3.6	23
144	Planar Cell Polarity Aligns Osteoblast Division in Response to Substrate Strain. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 423-435.	2.8	23

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145	Formate supplementation enhances folate-dependent nucleotide biosynthesis and prevents spina bifida in a mouse model of folic acid-resistant neural tube defects. <i>Biochimie</i> , 2016, 126, 63-70.	2.6	23
146	Mechanisms of normal and abnormal neurulation: evidence from embryo culture studies. <i>International Journal of Developmental Biology</i> , 1997, 41, 199-212.	0.6	23
147	Neural tube defects induced by folate deficiency in mutant <i>curly tail</i> (<i>Grhl3</i>) embryos are associated with alteration in folate one-carbon metabolism but are unlikely to result from diminished methylation. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2010, 88, 612-618.	1.6	22
148	Valproic acid disrupts the biomechanics of late spinal neural tube closure in mouse embryos. <i>Mechanisms of Development</i> , 2018, 149, 20-26.	1.7	22
149	Genetic Models of Mammalian Neural Tube Defects. <i>Novartis Foundation Symposium</i> , 1994, 181, 118-143.	1.1	22
150	Overexpression of Grainyhead-like 3 causes spina bifida and interacts genetically with mutant alleles of <i>Grhl2</i> and <i>Vangl2</i> in mice. <i>Human Molecular Genetics</i> , 2018, 27, 4218-4230.	2.9	21
151	Cellular mechanisms underlying Pax3-related neural tube defects and their prevention by folic acid. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	21
152	Tethering of the spinal cord in mouse fetuses and neonates with spina bifida. <i>Journal of Neurosurgery: Spine</i> , 2003, 99, 206-213.	1.7	20
153	Spatiotemporal analysis of programmed cell death during mouse cardiac septation. <i>The Anatomical Record</i> , 2004, 277A, 355-369.	1.8	20
154	Novel mouse model of encephalocele: post-neurulation origin and relationship to open neural tube defects. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	20
155	An update on the use of inositols in preventing gestational diabetes mellitus (GDM) and neural tube defects (NTDs). <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2020, 16, 1187-1198.	3.3	20
156	Rho GTPases in mammalian spinal neural tube closure. <i>Small GTPases</i> , 2018, 9, 283-289.	1.6	19
157	Rho kinase-dependent apical constriction counteracts M-phase apical expansion to enable mouse neural tube closure. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	19
158	Deceleration and acceleration in the rate of posterior neuropore closure during neurulation in the curly tail (ct) mouse embryo. <i>Anatomy and Embryology</i> , 1992, 185, 169-74.	1.5	18
159	Lack of motor neuron differentiation is an intrinsic property of the mouse secondary neural tube. <i>Developmental Dynamics</i> , 2010, 239, 3192-3203.	1.8	18
160	Perturbation of Retinoid Homeostasis Increases Malformation Risk in Embryos Exposed to Pregestational Diabetes. <i>Diabetes</i> , 2017, 66, 1041-1051.	0.6	17
161	Regulation of glycine metabolism by the glycine cleavage system and conjugation pathway in mouse models of <i>non-ketotic</i> hyperglycinemia. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 1186-1198.	3.6	17
162	Hindbrain neuropore tissue geometry determines asymmetric cell-mediated closure dynamics in mouse embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	17

#	ARTICLE	IF	CITATIONS
163	Exogenous transferrin is taken up and localized by the neurulation-stage mouse embryo in vitro. <i>Developmental Biology</i> , 1992, 153, 312-323.	2.0	16
164	Hyperglycaemia potentiates the teratogenicity of retinoic acid in diabetic pregnancy in mice. <i>Diabetologia</i> , 2004, 47, 515-522.	6.3	16
165	Planar cell polarity and the kidney. <i>Nephrology Dialysis Transplantation</i> , 2014, 29, 1320-1326.	0.7	16
166	Impaired folate 1-carbon metabolism causes formate-preventable hydrocephalus in glycine decarboxylase-deficient mice. <i>Journal of Clinical Investigation</i> , 2020, 130, 1446-1452.	8.2	16
167	Physical and Transcriptional Map of a 3-Mb Region of Mouse Chromosome 1 Containing the Gene for the Neural Tube Defect Mutant loop-tail(Lp). <i>Genomics</i> , 1999, 56, 149-159.	2.9	14
168	Multiple developmental roles of Ahnak are suggested by localization to sites of placentation and neural plate fusion in the mouse conceptus. <i>Mechanisms of Development</i> , 2002, 119, S31-S38.	1.7	14
169	Is <i>LMNB1</i> a susceptibility gene for neural tube defects in humans?. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2013, 97, 398-402.	1.6	14
170	Refinement of inducible gene deletion in embryos of pregnant mice. <i>Birth Defects Research</i> , 2020, 112, 196-204.	1.5	14
171	Comparative Physical and Transcript Maps of ~1 Mb around loop-tail, a Gene for Severe Neural Tube Defects on Distal Mouse Chromosome 1 and Human Chromosome 1q22-q23. <i>Genomics</i> , 2001, 72, 180-192.	2.9	13
172	Bloomsbury report on mouse embryo phenotyping: recommendations from the IMPC workshop on embryonic lethal screening. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 1049-1049.	2.4	13
173	Neural tube defects : Prevention by folic acid and other vitamins. <i>Indian Journal of Pediatrics</i> , 2000, 67, 915-921.	0.8	12
174	Glycine Cleavage System H Protein Is Essential for Embryonic Viability, Implying Additional Function Beyond the Glycine Cleavage System. <i>Frontiers in Genetics</i> , 2021, 12, 625120.	2.3	12
175	Defining a Particular Pathway of Neural Tube Closure. <i>Developmental Cell</i> , 2010, 18, 1-2.	7.0	11
176	Transferrin and its receptor in the development of genetically determined neural tube defects in the mouse embryo. <i>Developmental Dynamics</i> , 1996, 207, 35-46.	1.8	10
177	Genomic organization and embryonic expression of <i>igsf8</i> , an immunoglobulin superfamily member implicated in development of the nervous system and organ epithelia. <i>Molecular and Cellular Neurosciences</i> , 2003, 22, 62-74.	2.2	10
178	Heparan sulphate proteoglycans and spinal neurulation in the mouse embryo. <i>Development (Cambridge)</i> , 2002, 129, 2109-19.	2.5	10
179	Do cells become homeless during neural tube closure?. <i>Cell Cycle</i> , 2009, 8, 2479-2480.	2.6	9
180	Use of high-frequency ultrasound to study the prenatal development of cranial neural tube defects and hydrocephalus in <i>Gldc</i> -deficient mice. <i>Prenatal Diagnosis</i> , 2017, 37, 273-281.	2.3	9

#	ARTICLE	IF	CITATIONS
181	Maternal ethnicity and the prevalence of British pregnancies affected by neural tube defects. Birth Defects Research, 2021, 113, 968-980.	1.5	9
182	Novel exomphalos genetic mouse model: The importance of accurate phenotypic classification. Journal of Pediatric Surgery, 2013, 48, 2036-2042.	1.6	8
183	Mouse whole embryo culture: Evaluating the requirement for rat serum as culture medium. Birth Defects Research, 2019, 111, 1165-1177.	1.5	8
184	Genetic Basis of Neural Tube Defects. , 2017, , 1-28.		8
185	Role of the polar trophoctoderm in determining the pattern of early post-implantation morphogenesis in mammals: Evidence from development of the shorttailed field vole, <i>Microtus agrestis</i> . Placenta, 1988, 9, 643-653.	1.5	7
186	Malformations. , 2008, , 335-479.		7
187	Tracking Down the Migration of Mouse Neural Crest Cells. Neuroembryology, 2003, 2, 9-17.	1.1	6
188	Genetic interaction of Pax3 mutation and canonical Wnt signaling modulates neural tube defects and neural crest abnormalities. Genesis, 2021, 59, e23445.	1.6	6
189	Rescuing human fetal tissue research in the United States: A call for additional regulatory reform. Stem Cell Reports, 2021, 16, 2839-2843.	4.8	6
190	Embryonic mechanisms underlying the prevention of neural tube defects by vitamins. Mental Retardation and Developmental Disabilities Research Reviews, 1998, 4, 264-268.	3.6	5
191	Spina bifida-predisposing heterozygous mutations in Planar Cell Polarity genes and Zic2 reduce bone mass in young mice. Scientific Reports, 2018, 8, 3325.	3.3	5
192	Vangl2-environment interaction causes severe neural tube defects, without abnormal neuroepithelial convergent extension. DMM Disease Models and Mechanisms, 2021, , .	2.4	5
193	Diffusion microscopic MRI of the mouse embryo: Protocol and practical implementation in the <i>spotch</i> mouse model. Magnetic Resonance in Medicine, 2015, 73, 731-739.	3.0	3
194	Bending of the neural plate during mouse spinal neurulation is independent of actin microfilaments. , 1999, 215, 273.		3
195	Dolutegravir and rat whole embryo culture. Birth Defects Research, 2022, 114, 23-24.	1.5	3
196	Could microRNAs be biomarkers for neural tube defects?. Journal of Neurochemistry, 2012, 122, 485-486.	3.9	2
197	Laminin and integrin expression in the ventral ectodermal ridge of the mouse embryo: Implications for regulation of BMP signalling. Developmental Dynamics, 2012, 241, 1808-1815.	1.8	2
198	Genetics and Developmental Biology of Closed Dysraphic Conditions. , 2019, , 325-344.		2

#	ARTICLE	IF	CITATIONS
199	Dynamic acetylation profile during mammalian neurulation. <i>Birth Defects Research</i> , 2020, 112, 205-211.	1.5	2
200	Two-Photon Cell and Tissue Level Laser Ablation Methods to Study Morphogenetic Biomechanics. <i>Methods in Molecular Biology</i> , 2022, 2438, 217-230.	0.9	2
201	Analysis of neural tube defects in a mouse mutant using whole embryo culture. <i>Toxicology in Vitro</i> , 1993, 7, 679-684.	2.4	1
202	Localization of the mouse gene encoding tyrosine kinase receptor type 10 on distal Chromosome 1. <i>Mammalian Genome</i> , 1997, 8, 941-942.	2.2	1
203	Sequence and expression analysis of <i>Nhlh1</i> : a basic helix-loop-helix gene implicated in neurogenesis. <i>Genesis</i> , 1999, 24, 165-177.	2.1	1
204	Animal Models of Folate-Related Neural Tube Defects. , 0, , 001-026.		1
205	Genetic Basis of Neural Tube Defects. , 2020, , 2275-2294.		1
206	Molecular analysis of Loop-tail, a mouse model of craniorachischisis. <i>Genetical Research</i> , 1997, 70, 79-89.	0.9	0
207	The role of the extracellular matrix in neural crest cell migration in the <i>Splotch2H</i> mouse. <i>Genetical Research</i> , 1997, 70, 79-89.	0.9	0
208	Peter Thorogood (1947-1998). <i>Developmental Biology</i> , 1998, 204, 1-2.	2.0	0
209	Curly-tail mice with neural tube defects show abnormal cortical development. <i>Cerebrospinal Fluid Research</i> , 2009, 6, .	0.5	0
210	Role of glycosaminoglycans in murine primary spinal neurulation. <i>Developmental Biology</i> , 2011, 356, 150-151.	2.0	0
211	Syndecan 4 interacts genetically with <i>Vangl2</i> to regulate neural tube closure and planar cell polarity. <i>Journal of Cell Science</i> , 2013, 126, e1-e1.	2.0	0
212	Uses of Databases in Dysmorphology. , 0, , 19-31.		0
213	Transgenic Technology and Its Role in Understanding Normal and Abnormal Mammalian Development. , 0, , 79-97.		0