

Nicholas De Greene

List of Publications by Year in descending order

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134
papers

10,088
citations

41258

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144
times ranked

10184
citing authors

#	ARTICLE	IF	CITATIONS
1	Metformin Retards Aging in <i>C.Âlegans</i> by Altering Microbial Folate and Methionine Metabolism. <i>Cell</i> , 2013, 153, 228-239.	13.5	811
2	The genetic basis of mammalian neurulation. <i>Nature Reviews Genetics</i> , 2003, 4, 784-793.	7.7	608
3	Neural tube defects: recent advances, unsolved questions, and controversies. <i>Lancet Neurology</i> , The, 2013, 12, 799-810.	4.9	549
4	Neural Tube Defects. <i>Annual Review of Neuroscience</i> , 2014, 37, 221-242.	5.0	465
5	Neural tube closure: cellular, molecular and biomechanical mechanisms. <i>Development (Cambridge)</i> , 2017, 144, 552-566.	1.2	402
6	Genetics and development of neural tube defects. <i>Journal of Pathology</i> , 2010, 220, 217-230.	2.1	391
7	Mutations in Radial Spoke Head Protein Genes <i>RSPH9</i> and <i>RSPH4A</i> Cause Primary Ciliary Dyskinesia with Central-Microtubular-Pair Abnormalities. <i>American Journal of Human Genetics</i> , 2009, 84, 197-209.	2.6	303
8	Convergent extension, planar-cell-polarity signalling and initiation of mouse neural tube closure. <i>Development (Cambridge)</i> , 2007, 134, 789-799.	1.2	284
9	Genetics of human neural tube defects. <i>Human Molecular Genetics</i> , 2009, 18, R113-R129.	1.4	267
10	In vivo genetic ablation by Cre-mediated expression of diphtheria toxin fragment A. <i>Genesis</i> , 2005, 43, 129-135.	0.8	218
11	Inositol prevents folate-resistant neural tube defects in the mouse. <i>Nature Medicine</i> , 1997, 3, 60-66.	15.2	204
12	Host-Microbe Co-metabolism Dictates Cancer Drug Efficacy in <i>C.Âlegans</i> . <i>Cell</i> , 2017, 169, 442-456.e18.	13.5	198
13	Neural tube defectsâ€”disorders of neurulation and related embryonic processes. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2013, 2, 213-227.	5.9	181
14	Targeted Disruption of the <i>Cln3</i> Gene Provides a Mouse Model for Batten Disease. <i>Neurobiology of Disease</i> , 1999, 6, 321-334.	2.1	180
15	Mutations in <i>ZMYND10</i> , a Gene Essential for Proper Axonemal Assembly of Inner and Outer Dynein Arms in Humans and Flies, Cause Primary Ciliary Dyskinesia. <i>American Journal of Human Genetics</i> , 2013, 93, 346-356.	2.6	167
16	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.	1.1	166
17	Development of the vertebrate central nervous system: formation of the neural tube. <i>Prenatal Diagnosis</i> , 2009, 29, 303-311.	1.1	158
18	Folic acid prevents exencephaly in <i>Cited2</i> deficient mice. <i>Human Molecular Genetics</i> , 2002, 11, 283-293.	1.4	145

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19	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
20	Neural plate morphogenesis during mouse neurulation is regulated by antagonism of Bmp signalling. <i>Development (Cambridge)</i> , 2007, 134, 3203-3211.	1.2	140
21	High folic acid consumption leads to pseudo-MTHFR deficiency, altered lipid metabolism, and liver injury in mice. <i>American Journal of Clinical Nutrition</i> , 2015, 101, 646-658.	2.2	120
22	Glycine decarboxylase deficiency causes neural tube defects and features of non-ketotic hyperglycinemia in mice. <i>Nature Communications</i> , 2015, 6, 6388.	5.8	116
23	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.	0.7	101
24	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.	1.4	100
25	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.	1.4	99
26	Protein deiminases: New players in the developmentally regulated loss of neural regenerative ability. <i>Developmental Biology</i> , 2011, 355, 205-214.	0.9	99
27	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.	3.3	92
28	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
29	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.	3.3	83
30	Regulation of cell protrusions by small GTPases during fusion of the neural folds. <i>ELife</i> , 2016, 5, e13273.	2.8	80
31	Interactions between planar cell polarity genes cause diverse neural tube defects. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 1153-63.	1.2	77
32	Increased expression of Grainyhead-like-3 rescues spina bifida in a folate-resistant mouse model. <i>Human Molecular Genetics</i> , 2007, 16, 2640-2646.	1.4	73
33	Cardiovascular Defects Associated With Abnormalities in Midline Development in the Loop-tail Mouse Mutant. <i>Circulation Research</i> , 2001, 89, 6-12.	2.0	72
34	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.	1.2	70
35	Partitioning of One-Carbon Units in Folate and Methionine Metabolism Is Essential for Neural Tube Closure. <i>Cell Reports</i> , 2017, 21, 1795-1808.	2.9	69
36	Planar cell polarity genes and neural tube closure. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2003, 69, 318-324.	3.6	68

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37	Oxidative Stress and Apoptosis in Benzo[a]pyrene-Induced Neural Tube Defects. <i>Free Radical Biology and Medicine</i> , 2018, 116, 149-158.	1.3	68
38	Inositols: From Established Knowledge to Novel Approaches. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10575.	1.8	67
39	The emerging role of epigenetic mechanisms in the etiology of neural tube defects. <i>Epigenetics</i> , 2011, 6, 875-883.	1.3	65
40	Cellular basis of neuroepithelial bending during mouse spinal neural tube closure. <i>Developmental Biology</i> , 2015, 404, 113-124.	0.9	64
41	Bloomsbury report on mouse embryo phenotyping: recommendations from the IMPC workshop on embryonic lethal screening. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 571-9.	1.2	63
42	High dietary folate in pregnant mice leads to pseudo-MTHFR deficiency and altered methyl metabolism, with embryonic growth delay and short-term memory impairment in offspring. <i>Human Molecular Genetics</i> , 2017, 26, ddx004.	1.4	61
43	Retinal Pathology and Function in a Cln3 Knockout Mouse Model of Juvenile Neuronal Ceroid Lipofuscinosis (Batten Disease). <i>Molecular and Cellular Neurosciences</i> , 2002, 19, 515-527.	1.0	58
44	Inositol, neural tube closure and the prevention of neural tube defects. <i>Birth Defects Research</i> , 2017, 109, 68-80.	0.8	58
45	Magnetic resonance virtual histology for embryos: 3D atlases for automated high-throughput phenotyping. <i>NeuroImage</i> , 2011, 54, 769-778.	2.1	57
46	Homocysteine is embryotoxic but does not cause neural tube defects in mouse embryos. <i>Anatomy and Embryology</i> , 2003, 206, 185-191.	1.5	56
47	Dishevelled: linking convergent extension with neural tube closure. <i>Trends in Neurosciences</i> , 2003, 26, 453-455.	4.2	56
48	Specific isoforms of protein kinase C are essential for prevention of folate-resistant neural tube defects by inositol. <i>Human Molecular Genetics</i> , 2003, 13, 7-14.	1.4	53
49	D-chiro-inositol is more effective than myo-inositol in preventing folate-resistant mouse neural tube defects. <i>Human Reproduction</i> , 2002, 17, 2451-2458.	0.4	52
50	Over-expression of Grhl2 causes spina bifida in the Axial defects mutant mouse. <i>Human Molecular Genetics</i> , 2011, 20, 1536-1546.	1.4	50
51	Abnormal folate metabolism in fetuses affected by neural tube defects. <i>Brain</i> , 2006, 130, 1043-1049.	3.7	48
52	Excess methionine suppresses the methylation cycle and inhibits neural tube closure in mouse embryos. <i>FEBS Letters</i> , 2006, 580, 2803-2807.	1.3	47
53	Integrin-Mediated Focal Anchorage Drives Epithelial Zippering during Mouse Neural Tube Closure. <i>Developmental Cell</i> , 2020, 52, 321-334.e6.	3.1	46
54	Developmental expression of palmitoyl protein thioesterase in normal mice. <i>Developmental Brain Research</i> , 1999, 118, 1-11.	2.1	45

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55	EphrinA-EphA receptor interactions in mouse spinal neurulation: implications for neural fold fusion. <i>International Journal of Developmental Biology</i> , 2009, 53, 559-568.	0.3	44
56	Epithelial fusion during neural tube morphogenesis. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2012, 94, 817-823.	1.6	44
57	Inositol for the prevention of neural tube defects: a pilot randomised controlled trial. <i>British Journal of Nutrition</i> , 2016, 115, 974-983.	1.2	44
58	Spinal neural tube closure depends on regulation of surface ectoderm identity and biomechanics by Grhl2. <i>Nature Communications</i> , 2019, 10, 2487.	5.8	44
59	Deficient or Excess Folic Acid Supply During Pregnancy Alter Cortical Neurodevelopment in Mouse Offspring. <i>Cerebral Cortex</i> , 2021, 31, 635-649.	1.6	44
60	Zic4, a zinc-finger transcription factor, is expressed in the developing mouse nervous system. <i>Developmental Dynamics</i> , 2005, 233, 1110-1115.	0.8	43
61	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.	1.2	42
62	A coming of age: advanced imaging technologies for characterising the developing mouse. <i>Trends in Genetics</i> , 2013, 29, 700-711.	2.9	42
63	Vangl2 disruption alters the biomechanics of late spinal neurulation leading to spina bifida in mouse embryos. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	1.2	42
64	A novel mouse model for genetic variation in 10-formyltetrahydrofolate synthetase exhibits disturbed purine synthesis with impacts on pregnancy and embryonic development. <i>Human Molecular Genetics</i> , 2013, 22, 3705-3719.	1.4	41
65	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
66	Understanding the causes and prevention of neural tube defects: Insights from the <i>spotch</i> mouse model. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2009, 85, 322-330.	1.6	38
67	Activation of Pax3 target genes is necessary but not sufficient for neurogenesis in the ophthalmic trigeminal placode. <i>Developmental Biology</i> , 2009, 326, 314-326.	0.9	38
68	Expression pattern of glypican-4 suggests multiple roles during mouse development. <i>Developmental Dynamics</i> , 2005, 233, 1013-1017.	0.8	37
69	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.	1.5	37
70	Proteome changes associated with hippocampal MRI abnormalities in the lithium pilocarpine-induced model of convulsive status epilepticus. <i>Proteomics</i> , 2007, 7, 1336-1344.	1.3	35
71	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.	1.2	34
72	Microtubules, polarity and vertebrate neural tube morphogenesis. <i>Journal of Anatomy</i> , 2016, 229, 63-74.	0.9	34

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73	Both the folate cycle and betaineâ€homocysteine methyltransferase contribute methyl groups for DNA methylation in mouse blastocysts. <i>FASEB Journal</i> , 2015, 29, 1069-1079.	0.2	33
74	Differential Protein Expression at the Stage of Neural Tube Closure in the Mouse Embryo. <i>Journal of Biological Chemistry</i> , 2002, 277, 41645-41651.	1.6	32
75	Vangl-dependent planar cell polarity signalling is not required for neural crest migration in mammals. <i>Development (Cambridge)</i> , 2014, 141, 3153-3158.	1.2	32
76	A Murine Model for Juvenile NCL: Gene Targeting of Mouse Cln3. <i>Molecular Genetics and Metabolism</i> , 1999, 66, 309-313.	0.5	31
77	The genetic background of the <i>curly tail</i> strain confers susceptibility to folateâ€deficiencyâ€induced exencephaly. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2010, 88, 76-83.	1.6	31
78	Mechanical properties measured by atomic force microscopy define health biomarkers in ageing <i>C. elegans</i> . <i>Nature Communications</i> , 2020, 11, 1043.	5.8	29
79	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.	1.4	28
80	Aberrant methylation of Pax3 gene and neural tube defects in association with exposure to polycyclic aromatic hydrocarbons. <i>Clinical Epigenetics</i> , 2019, 11, 13.	1.8	27
81	Nucleotide precursors prevent folic acid-resistant neural tube defects in the mouse. <i>Brain</i> , 2013, 136, 2836-2841.	3.7	25
82	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.	2.9	25
83	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.	2.7	25
84	Claudins are essential for cell shape changes and convergent extension movements during neural tube closure. <i>Developmental Biology</i> , 2017, 428, 25-38.	0.9	24
85	Neural tube closure depends on expression of Grainyhead-like 3 in multiple tissues. <i>Developmental Biology</i> , 2018, 435, 130-137.	0.9	24
86	Cell non-autonomy amplifies disruption of neurulation by mosaic Vangl2 deletion in mice. <i>Nature Communications</i> , 2021, 12, 1159.	5.8	24
87	Convergent Extension Analysis in Mouse Whole Embryo Culture. <i>Methods in Molecular Biology</i> , 2012, 839, 133-146.	0.4	24
88	Regional differences in the expression of laminin isoforms during mouse neural tube development. <i>Matrix Biology</i> , 2011, 30, 301-309.	1.5	23
89	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.	1.3	23
90	Neural tube defects induced by folate deficiency in mutant <i>curly tail</i> (<i>Grhl3</i>) embryos are associated with alteration in folate oneâ€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

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91	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
92	Overexpression of Grainyhead-like 3 causes spina bifida and interacts genetically with mutant alleles of Grhl2 and Vangl2 in mice. <i>Human Molecular Genetics</i> , 2018, 27, 4218-4230.	1.4	21
93	Cellular mechanisms underlying Pax3-related neural tube defects and their prevention by folic acid. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	1.2	21
94	Novel mouse model of encephalocele: post-neurulation origin and relationship to open neural tube defects. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	1.2	20
95	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.	1.5	20
96	Rho GTPases in mammalian spinal neural tube closure. <i>Small GTPases</i> , 2018, 9, 283-289.	0.7	19
97	Rho kinase-dependent apical constriction counteracts M-phase apical expansion to enable mouse neural tube closure. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	19
98	A new mechanism for cannabidiol in regulating the oneâ€carbon cycle and methionine levels in <i>Dictyostelium</i> and in mammalian epilepsy models. <i>British Journal of Pharmacology</i> , 2020, 177, 912-928.	2.7	19
99	Sex differences in the prevalence of neural tube defects and preventive effects of folic acid (FA) supplementation among five counties in northern China: results from a population-based birth defect surveillance programme. <i>BMJ Open</i> , 2018, 8, e022565.	0.8	18
100	Expression of MUL, a gene encoding a novel RBCC family ring-finger protein, in human and mouse embryogenesis. <i>Mechanisms of Development</i> , 2001, 108, 221-225.	1.7	17
101	Regulation of glycine metabolism by the glycine cleavage system and conjugation pathway in mouse models of <sc>nonâ€ketotic</sc> hyperglycinemia. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 1186-1198.	1.7	17
102	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, .	3.3	17
103	Postâ€translational regulation of Crmp in developing and regenerating chick spinal cord. <i>Developmental Neurobiology</i> , 2010, 70, 456-471.	1.5	16
104	Impaired folate 1-carbon metabolism causes formate-preventable hydrocephalus in glycine decarboxylaseâ€deficient mice. <i>Journal of Clinical Investigation</i> , 2020, 130, 1446-1452.	3.9	16
105	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
106	Refinement of inducible gene deletion in embryos of pregnant mice. <i>Birth Defects Research</i> , 2020, 112, 196-204.	0.8	14
107	High resolution MRI reveals global changes in brains of Cln3 mutant mice. <i>European Journal of Paediatric Neurology</i> , 2001, 5, 103-107.	0.7	13
108	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.	1.2	13

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109	Neural tube defects : Prevention by folic acid and other vitamins. Indian Journal of Pediatrics, 2000, 67, 915-921.	0.3	12
110	Glycine Cleavage System H Protein Is Essential for Embryonic Viability, Implying Additional Function Beyond the Glycine Cleavage System. Frontiers in Genetics, 2021, 12, 625120.	1.1	12
111	Defining a PARTICULAR Pathway of Neural Tube Closure. Developmental Cell, 2010, 18, 1-2.	3.1	11
112	Epithelial dynamics shed light on mechanisms underlying ear canal defects. Development (Cambridge), 2020, 147, .	1.2	11
113	The Molecular Basis of GROD-Storing Neuronal Ceroid Lipofuscinoses in Scotland. Molecular Genetics and Metabolism, 1999, 66, 245-247.	0.5	10
114	Do cells become homeless during neural tube closure?. Cell Cycle, 2009, 8, 2479-2480.	1.3	9
115	Use of high-frequency ultrasound to study the prenatal development of cranial neural tube defects and hydrocephalus in <i>Gldc</i> -deficient mice. Prenatal Diagnosis, 2017, 37, 273-281.	1.1	9
116	Novel exomphalos genetic mouse model: The importance of accurate phenotypic classification. Journal of Pediatric Surgery, 2013, 48, 2036-2042.	0.8	8
117	Mouse whole embryo culture: Evaluating the requirement for rat serum as culture medium. Birth Defects Research, 2019, 111, 1165-1177.	0.8	8
118	Genetic Basis of Neural Tube Defects. , 2017, , 1-28.		8
119	Genetic interaction of Pax3 mutation and canonical Wnt signaling modulates neural tube defects and neural crest abnormalities. Genesis, 2021, 59, e23445.	0.8	6
120	Embryonic mechanisms underlying the prevention of neural tube defects by vitamins. Mental Retardation and Developmental Disabilities Research Reviews, 1998, 4, 264-268.	3.5	5
121	Spina bifida-predisposing heterozygous mutations in Planar Cell Polarity genes and Zic2 reduce bone mass in young mice. Scientific Reports, 2018, 8, 3325.	1.6	5
122	Vangl2-environment interaction causes severe neural tube defects, without abnormal neuroepithelial convergent extension. DMM Disease Models and Mechanisms, 2021, , .	1.2	5
123	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.	1.9	3
124	Passive Smoking During the Periconceptional Period and Risk for Neural Tube Defects in Offspring â€” Five Counties, Shanxi Province, China, 2010â€”2016. China CDC Weekly, 2021, 3, 778-782.	1.0	3
125	Dolutegravir and rat whole embryo culture. Birth Defects Research, 2022, 114, 23-24.	0.8	3
126	Could microRNAs be biomarkers for neural tube defects?. Journal of Neurochemistry, 2012, 122, 485-486.	2.1	2

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127	Identification of the genomic mutation in Epha4rb-2J/rb-2J mice. <i>Genome</i> , 2016, 59, 439-448.	0.9	2
128	Genetics and Developmental Biology of Closed Dysraphic Conditions. , 2019, , 325-344.		2
129	Dynamic acetylation profile during mammalian neurulation. <i>Birth Defects Research</i> , 2020, 112, 205-211.	0.8	2
130	Two-Photon Cell and Tissue Level Laser Ablation Methods to Study Morphogenetic Biomechanics. <i>Methods in Molecular Biology</i> , 2022, 2438, 217-230.	0.4	2
131	Preventive Management of Children with Congenital Anomalies and Syndromes. <i>European Journal of Paediatric Neurology</i> , 2001, 5, 89.	0.7	1
132	Genetically Determined Folate Deficiency Is Associated With Abnormal Hepatic Folate Profiles in the Spontaneously Hypertensive Rat. <i>Physiological Research</i> , 2018, 67, 417-422.	0.4	1
133	Genetic Basis of Neural Tube Defects. , 2020, , 2275-2294.		1
134	Eph and Ephrin Variants in Malaysian Neural Tube Defect Families. <i>Genes</i> , 2022, 13, 952.	1.0	1