

Gavin J Clowry

List of Publications by Year in descending order

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79
papers

2,674
citations

186265

28
h-index

197818

49
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91
all docs

91
docs citations

91
times ranked

3620
citing authors

#	ARTICLE	IF	CITATIONS
1	Is hemiplegic cerebral palsy equivalent to amblyopia of the corticospinal system?. <i>Annals of Neurology</i> , 2007, 62, 493-503.	5.3	235
2	New insights into the development of the human cerebral cortex. <i>Journal of Anatomy</i> , 2019, 235, 432-451.	1.5	224
3	A Molecular Neuroanatomical Study of the Developing Human Neocortex from 8 to 17 Postconceptional Weeks Revealing the Early Differentiation of the Subplate and Subventricular Zone. <i>Cerebral Cortex</i> , 2008, 18, 1536-1548.	2.9	190
4	Renewed focus on the developing human neocortex. <i>Journal of Anatomy</i> , 2010, 217, 276-288.	1.5	120
5	Cerebral cortical development in rodents and primates. <i>Progress in Brain Research</i> , 2012, 195, 45-70.	1.4	107
6	The sinusoidal probe: a new approach to improve electrode longevity. <i>Frontiers in Neuroengineering</i> , 2014, 7, 10.	4.8	87
7	Subplate in the developing cortex of mouse and human. <i>Journal of Anatomy</i> , 2010, 217, 368-380.	1.5	78
8	The Tissue-Specific RNA Binding Protein T-STAR Controls Regional Splicing Patterns of Neurexin Pre-mRNAs in the Brain. <i>PLoS Genetics</i> , 2013, 9, e1003474.	3.5	74
9	The Early Fetal Development of Human Neocortical GABAergic Interneurons. <i>Cerebral Cortex</i> , 2015, 25, 631-645.	2.9	72
10	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
11	Axotomy induces NADPH diaphorase activity in neonatal but not adult motoneurons. <i>NeuroReport</i> , 1993, 5, 361-364.	1.2	69
12	Progressive loss of PAX6, TBR2, NEUROD and TBR1 mRNA gradients correlates with translocation of EMX2 to the cortical plate during human cortical development. <i>European Journal of Neuroscience</i> , 2008, 28, 1449-1456.	2.6	69
13	The dependence of spinal cord development on corticospinal input and its significance in understanding and treating spastic cerebral palsy. <i>Neuroscience and Biobehavioral Reviews</i> , 2007, 31, 1114-1124.	6.1	62
14	Transplantation of magnetically labeled mesenchymal stem cells in a model of perinatal brain injury. <i>Stem Cell Research</i> , 2010, 5, 255-266.	0.7	58
15	Investigating gradients of gene expression involved in early human cortical development. <i>Journal of Anatomy</i> , 2010, 217, 300-311.	1.5	55
16	Mechanical Flexibility Reduces the Foreign Body Response to Long-Term Implanted Microelectrodes in Rabbit Cortex. <i>PLoS ONE</i> , 2016, 11, e0165606.	2.5	55
17	Gap junction networks can generate both ripple-like and fast ripple-like oscillations. <i>European Journal of Neuroscience</i> , 2014, 39, 46-60.	2.6	53
18	The Transcription Factors COUP-TFI and COUP-TFII have Distinct Roles in Arealisation and GABAergic Interneuron Specification in the Early Human Fetal Telencephalon. <i>Cerebral Cortex</i> , 2017, 27, 4971-4987.	2.9	48

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19	The Corticofugal Neuron-Associated Genes ROBO1, SRGAP1, and CTIP2 Exhibit an Anterior to Posterior Gradient of Expression in Early Fetal Human Neocortex Development. <i>Cerebral Cortex</i> , 2011, 21, 1395-1407.	2.9	47
20	What are the Best Animal Models for Testing Early Intervention in Cerebral Palsy?. <i>Frontiers in Neurology</i> , 2014, 5, 258.	2.4	46
21	Plasticity in the Rat Spinal Cord Seen in Response to Lesions to the Motor Cortex during Development but Not to Lesions in Maturity. <i>Experimental Neurology</i> , 2000, 166, 422-434.	4.1	41
22	Neurexins 1-3 Each Have a Distinct Pattern of Expression in the Early Developing Human Cerebral Cortex. <i>Cerebral Cortex</i> , 2017, 27, 216-232.	2.9	38
23	Distinct cortical and sub-cortical neurogenic domains for GABAergic interneuron precursor transcription factors NKX2.1, OLIG2 and COUP-TFII in early fetal human telencephalon. <i>Brain Structure and Function</i> , 2017, 222, 2309-2328.	2.3	37
24	Distinct expression patterns for type I and II topoisomerases IIA and IIB in the early foetal human telencephalon. <i>Journal of Anatomy</i> , 2016, 228, 452-463.	1.5	34
25	Transplants of embryonic motoneurons to adult spinal cord: survival and innervation abilities. <i>Trends in Neurosciences</i> , 1991, 14, 355-357.	8.6	31
26	Spinal cord plasticity in response to unilateral inhibition of the rat motor cortex during development: changes to gene expression, muscle afferents and the ipsilateral corticospinal projection. <i>European Journal of Neuroscience</i> , 2004, 20, 2555-2566.	2.6	30
27	An enhanced role and expanded developmental origins for gamma-aminobutyric acidergic interneurons in the human cerebral cortex. <i>Journal of Anatomy</i> , 2015, 227, 384-393.	1.5	30
28	Abnormal corticospinal function but normal axonal guidance in human L1CAM mutations. <i>Brain</i> , 2001, 124, 2393-2406.	7.6	29
29	Developmental expression of parvalbumin by rat lower cervical spinal cord neurones and the effect of early lesions to the motor cortex. <i>Developmental Brain Research</i> , 1997, 102, 197-208.	1.7	26
30	The successful use of fentanyl/fluanisone ('Hypnorm') as an anaesthetic for intracranial surgery in neonatal rats. <i>Laboratory Animals</i> , 2000, 34, 260-264.	1.0	26
31	Thalamocortical Afferents Innervate the Cortical Subplate much Earlier in Development in Primate than in Rodent. <i>Cerebral Cortex</i> , 2019, 29, 1706-1718.	2.9	26
32	An immunohistochemical study of the development of sensorimotor components of the early fetal human spinal cord. <i>Journal of Anatomy</i> , 2005, 207, 313-324.	1.5	25
33	Expression of nitric oxide synthase by motor neurones in the spinal cord of the mutant mouse wobbler. <i>Neuroscience Letters</i> , 1996, 215, 177-180.	2.1	24
34	Developmental plasticity connects visual cortex to motoneurons after stroke. <i>Annals of Neurology</i> , 2010, 67, 132-136.	5.3	24
35	Charting the protomap of the human telencephalon. <i>Seminars in Cell and Developmental Biology</i> , 2018, 76, 3-14.	5.0	24
36	Observations on the development of transplanted embryonic ventral horn neurones grafted into adult rat spinal cord and connected to skeletal muscle implants via a peripheral nerve. <i>Experimental Brain Research</i> , 1992, 91, 249-58.	1.5	23

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37	Mouse genetics reveals Barttin as a genetic modifier of Joubert syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1113-1118.	7.1	22
38	A SLM2 Feedback Pathway Controls Cortical Network Activity and Mouse Behavior. <i>Cell Reports</i> , 2016, 17, 3269-3280.	6.4	21
39	Expression of ventral telencephalon transcription factors ASCL1 and DLX2 in the early fetal human cerebral cortex. <i>Journal of Anatomy</i> , 2019, 235, 555-568.	1.5	21
40	The Effect of a Peripheral Nerve Lesion on Calbindin D28k Immunoreactivity in the Cervical Ventral Horn of Developing and Adult Rats. <i>Experimental Neurology</i> , 1999, 156, 111-120.	4.1	19
41	Reciprocal and Renshaw (recurrent) inhibition are functional in man at birth. <i>Brain Research</i> , 2001, 899, 66-81.	2.2	19
42	Multimodal Three-Dimensional Visualization Enhances Novice Learner Interpretation of Basic Cross-Sectional Anatomy. <i>Anatomical Sciences Education</i> , 2022, 15, 127-142.	3.7	19
43	Binding site density enables paralog-specific activity of SLM2 and Sam68 proteins in <i>Neurexin2</i> AS4 splicing control. <i>Nucleic Acids Research</i> , 2017, 45, gkw1277.	14.5	16
44	The effects of botulinum neurotoxin A induced muscle paresis during a critical period upon muscle and spinal cord development in the rat. <i>Experimental Neurology</i> , 2006, 202, 456-469.	4.1	14
45	Changing pattern of expression of parvalbumin immunoreactivity during human fetal spinal cord development. <i>Journal of Comparative Neurology</i> , 2000, 423, 727-735.	1.6	13
46	Human neural stem cells dispersed in artificial ECM form cerebral organoids when grafted in vivo. <i>Journal of Anatomy</i> , 2018, 233, 155-166.	1.5	13
47	The effect on motor cortical neuronal development of focal lesions to the subcortical white matter in the neonatal rat: a model for periventricular leukomalacia. <i>International Journal of Developmental Neuroscience</i> , 2003, 21, 171-182.	1.6	12
48	A comparison of behavioural and histological outcomes of periventricular injection of ibotenic acid in neonatal rats at postnatal days 5 and 7. <i>Brain Research</i> , 2008, 1201, 187-195.	2.2	12
49	In Vitro Modelling of Cortical Neurogenesis by Sequential Induction of Human Umbilical Cord Blood Stem Cells. <i>Stem Cell Reviews and Reports</i> , 2012, 8, 210-223.	5.6	12
50	Impaired Fast Network Oscillations and Mitochondrial Dysfunction in a Mouse Model of Alpha-synucleinopathy (A30P). <i>Neuroscience</i> , 2018, 377, 161-173.	2.3	12
51	Improving Outcomes in Cerebral Palsy with Early Intervention: New Translational Approaches. <i>Frontiers in Neurology</i> , 2015, 6, 24.	2.4	11
52	Hippocampal network hyperexcitability in young transgenic mice expressing human mutant alpha-synuclein. <i>Neurobiology of Disease</i> , 2021, 149, 105226.	4.4	10
53	Increased hippocampal excitability in miR-324-null mice. <i>Scientific Reports</i> , 2021, 11, 10452.	3.3	10
54	Grafts of embryonic tissue into spinal cord: A possible strategy for treating neuromuscular disorders. <i>Neuromuscular Disorders</i> , 1991, 1, 87-92.	0.6	8

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55	N-Methyl-d-Aspartate Receptor Blockade during Development Induces Short-Term but Not Long-Term Changes in c-Jun and Parvalbumin Expression in the Rat Cervical Spinal Cord. <i>Experimental Neurology</i> , 2001, 170, 380-384.	4.1	7
56	Multiple Origins of Secretagogin Expressing Cortical GABAergic Neuron Precursors in the Early Human Fetal Telencephalon. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 61.	1.7	7
57	Seeking clues in brain development to explain the extraordinary evolution of language in humans. <i>Language Sciences</i> , 2014, 46, 220-231.	1.0	6
58	Creative Destruction: A Basic Computational Model of Cortical Layer Formation. <i>Cerebral Cortex</i> , 2021, 31, 3237-3253.	2.9	6
59	Elimination of muscle afferent boutons from the cuneate nucleus of the rat medulla during development. <i>Neuroscience</i> , 2009, 161, 787-793.	2.3	5
60	Expression patterns of ciliopathy genes ARL3 and CEP120 reveal roles in multisystem development. <i>BMC Developmental Biology</i> , 2020, 20, 26.	2.1	5
61	Selective Expression of Nicotinic Receptor Sub-unit mRNA in Early Human Fetal Forebrain. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 72.	2.9	5
62	Embryonic and foetal expression patterns of the ciliopathy gene CEP164. <i>PLoS ONE</i> , 2020, 15, e0221914.	2.5	5
63	Embryonic motoneurons grafted into the spinal cord of an adult rat can innervate a muscle. <i>Restorative Neurology and Neuroscience</i> , 1991, 2, 299-302.	0.7	4
64	Gephyrin-Like Immunoreactivity Is a Marker for Growing Axons in the Central Nervous System of the Immature Rat. <i>Developmental Neuroscience</i> , 1999, 21, 50-57.	2.0	4
65	Could autologous cord blood stem cell transplantation treat cerebral palsy?. <i>Translational Neuroscience</i> , 2011, 2, 207-218.	1.4	4
66	Changes in Retrogradely Labelled Neurones in the Red Nucleus and Cortex after Depletion of Motoneurons by Axotomy in Neonatal Rats. <i>Developmental Neuroscience</i> , 1994, 16, 34-37.	2.0	3
67	Transient expression of calcitonin gene-related peptide immunoreactivity in the ventral horn of the post-natal rat cervical spinal cord. <i>Developmental Brain Research</i> , 1999, 115, 93-96.	1.7	3
68	Brainstem motor nuclei respond differentially to degenerative disease in the mutant mouse wobbler. <i>Neuropathology and Applied Neurobiology</i> , 2004, 30, 148-160.	3.2	3
69	Plasticity to neonatal sensorimotor cortex injury. <i>Translational Neuroscience</i> , 2010, 1, 16-23.	1.4	3
70	Expression of cholinergic phenotype by embryonic ventral horn neurons transplanted into the spinal cord in the rat. <i>Restorative Neurology and Neuroscience</i> , 1994, 6, 209-219.	0.7	2
71	The Effects of an RNA Synthesis Inhibitor on the Survival and Regeneration of Rat Motoneurons Injured at Birth. <i>Experimental Neurology</i> , 1996, 5, 65-71.	1.7	1
72	Changing pattern of expression of parvalbumin immunoreactivity during human fetal spinal cord development. <i>Journal of Comparative Neurology</i> , 2000, 423, 727-735.	1.6	1

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73	Tyramide signal amplification coupled with multiple immunolabeling and <scp>RNAScope</scp> <i>in situ</i> hybridization in formaldehydeâ€fixed paraffinâ€embedded human fetal brain. Journal of Anatomy, 2022, 241, 33-41.	1.5	1
74	Reduced placental size and increased apoptosis are associated with prenatal nicotine exposure in rats.. European Review for Medical and Pharmacological Sciences, 2022, 26, 1586-1593.	0.7	1
75	Stem cell therapy for cerebral palsy: Proceeding with caution. Developmental Medicine and Child Neurology, 2022, 64, 1434-1435.	2.1	1
76	Recovery of Function After Spinal Cord Injury. , 2006, , 24-51.		0
77	Response to Dr Papathanasiou. Annals of Neurology, 2010, 68, 118-119.	5.3	0
78	Development of the human neocortex. Journal of Anatomy, 2010, 217, 275-275.	1.5	0
79	Introduction: GABAergic neurotransmission in the human cerebral cortex: same rules apply?. Journal of Anatomy, 2015, 227, 383-383.	1.5	0