Gerard W O'keeffe

List of Publications by Year
in descending order

95 papers	4,210 citations	147801 31 h-index	123424 61 g-index
95 all docs	95 docs citations	95 times ranked	6523 citing authors

#	Article	IF	Citations
1	Microbiota and neurodevelopmental windows: implications for brain disorders. Trends in Molecular Medicine, 2014, 20, 509-518.	6.7	852
2	Prenatal stress-induced alterations in major physiological systems correlate with gut microbiota composition in adulthood. Psychoneuroendocrinology, 2015, 60, 58-74.	2.7	224
3	Anatomy education for the YouTube generation. Anatomical Sciences Education, 2016, 9, 90-96.	3.7	214
4	Association of Hypertensive Disorders of Pregnancy With Risk of Neurodevelopmental Disorders in Offspring. JAMA Psychiatry, 2018, 75, 809.	11.0	172
5	Midbrain dopaminergic neurons: A review of the molecular circuitry that regulates their development. Developmental Biology, 2013, 379, 123-138.	2.0	158
6	Microbiota-gut-brain signalling in Parkinson's disease: Implications for non-motor symptoms. Parkinsonism and Related Disorders, 2016, 27, 1-8.	2.2	148
7	BMP-Smad 1/5/8 signalling in the development of the nervous system. Progress in Neurobiology, 2013, 109, 28-41.	5.7	137
8	A role for interleukin-1Î² in determining the lineage fate of embryonic rat hippocampal neural precursor cells. Molecular and Cellular Neurosciences, 2012, 49, 311-321.	2.2	108
9	Regulation of axonal and dendritic growth by the extracellular calcium-sensing receptor. Nature Neuroscience, 2008, 11, 285-291.	14.8	97
10	Zeb2: A multifunctional regulator of nervous system development. Progress in Neurobiology, 2015, 132, 81-95.	5.7	88
11	Prenatal maternal stress and risk of neurodevelopmental disorders in the offspring: a systematic review and meta-analysis. Social Psychiatry and Psychiatric Epidemiology, 2019, 54, 1299-1309.	3.1	83
12	Epigenetic regulation of the placental HSD11B2 barrier and its role as a critical regulator of fetal development. Epigenetics, 2014, 9, 816-822.	2.7	79
13	Nuclear Factor ÂB Signaling Either Stimulates or Inhibits Neurite Growth Depending on the Phosphorylation Status of p65/RelA. Journal of Neuroscience, 2008, 28, 8246-8256.	3.6	78
14	Exposure of foetal neural progenitor cells to ILâ€1Î² impairs their proliferation and alters their differentiation â€“ a role for maternal inflammation?. Journal of Neurochemistry, 2012, 120, 964-973.	3.9	73
15	Cadaveric anatomy in the future of medical education: What is the surgeons view?. Anatomical Sciences Education, 2016, 9, 203-208.	3.7	64
16	Negative regulation of TLX by IL-1Î² correlates with an inhibition of adult hippocampal neural precursor cell proliferation. Brain, Behavior, and Immunity, 2013, 33, 7-13.	4.1	61
17	Downregulation of Umbilical Cord Blood Levels of miR-374a in Neonatal Hypoxic Ischemic Encephalopathy. Journal of Pediatrics, 2015, 167, 269-273.e2.	1.8	59
18	Evidence for dopaminergic axonal degeneration as an early pathological process in Parkinson's disease. Parkinsonism and Related Disorders, 2018, 56, 9-15.	2.2	58

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19	NGF-promoted axon growth and target innervation requires GITRL-GITR signaling. Nature Neuroscience, 2008, 11, 135-142.	14.8	55
20	Distinct alterations in motor & reward seeking behavior are dependent on the gestational age of exposure to LPS-induced maternal immune activation. Brain, Behavior, and Immunity, 2017, 63, 21-34.	4.1	49
21	Effects of growth/differentiation factor 5 on the survival and morphology of embryonic rat midbrain dopaminergic neurones in vitro. Journal of Neurocytology, 2004, 33, 479-488.	1.5	48
22	Neurotrophic factors: from neurodevelopmental regulators to novel therapies for Parkinsonâ€²s disease. Neural Regeneration Research, 2014, 9, 1708.	3.0	48
23	Neurotrophic factor therapy for Parkinsonâ€²s disease: past, present and future. Neural Regeneration Research, 2016, 11, 205.	3.0	48
24	BMP2 and GDF5 induce neuronal differentiation through a Smad dependant pathway in a model of human midbrain dopaminergic neurons. Molecular and Cellular Neurosciences, 2013, 56, 263-271.	2.2	46
25	Canonical BMPâ€“Smad Signalling Promotes Neurite Growth in Rat Midbrain Dopaminergic Neurons. NeuroMolecular Medicine, 2014, 16, 473-489.	3.4	46
26	NF-ÎºB: Emerging roles in hippocampal development and function. International Journal of Biochemistry and Cell Biology, 2013, 45, 1821-1824.	2.8	42
27	Preeclampsia and Neurodevelopmental Outcomes: Potential Pathogenic Roles for Inflammation and Oxidative Stress?. Molecular Neurobiology, 2021, 58, 2734-2756.	4.0	38
28	The role of growth/differentiation factor 5 (GDF5) in the induction and survival of midbrain dopaminergic neurones: relevance to Parkinson's disease treatment. Journal of Anatomy, 2005, 207, 219-226.	1.5	36
29	Association between preeclampsia and autism spectrum disorder: a populationâ€based study. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2020, 61, 131-139.	5.2	36
30	The Epigenome as a therapeutic target for Parkinson's disease. Neural Regeneration Research, 2016, 11, 1735.	3.0	35
31	Mild prenatal hypoxia-ischemia leads to social deficits and central and peripheral inflammation in exposed offspring. Brain, Behavior, and Immunity, 2018, 69, 418-427.	4.1	34
32	Exposure to Hypertensive Disorders of Pregnancy Increases the Risk of Autism Spectrum Disorder in Affected Offspring. Molecular Neurobiology, 2018, 55, 5557-5564.	4.0	34
33	Mitogen-Activated Protein Kinase Phosphatase (MKP)-1 as a Neuroprotective Agent: Promotion of the Morphological Development of Midbrain Dopaminergic Neurons. NeuroMolecular Medicine, 2013, 15, 435-446.	3.4	33
34	Roles for the TGFÎ² Superfamily in the Development and Survival of Midbrain Dopaminergic Neurons. Molecular Neurobiology, 2014, 50, 559-573.	4.0	32
35	Class-IIa Histone Deacetylase Inhibition Promotes the Growth of Neural Processes and Protects Them Against Neurotoxic Insult. Molecular Neurobiology, 2015, 51, 1432-1442.	4.0	31
36	Maternal distress in late pregnancy alters obstetric outcomes and the expression of genes important for placental glucocorticoid signalling. Psychiatry Research, 2017, 255, 17-26.	3.3	31

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37	A Small Molecule Activator of p300/CBP Histone Acetyltransferase Promotes Survival and Neurite Growth in a Cellular Model of Parkinsonâ€™s Disease. Neurotoxicity Research, 2016, 30, 510-520.	2.7	30
38	Expression of growth differentiation factor-5 in the developing and adult rat brain. Developmental Brain Research, 2004, 151, 199-202.	1.7	28
39	Viral vector delivery of neurotrophic factors for Parkinson's disease therapy. Expert Reviews in Molecular Medicine, 2015, 17, e8.	3.9	28
40	Regulation of neurite growth by tumour necrosis superfamily member RANKL. Open Biology, 2013, 3, 120150.	3.6	26
41	Activin signalling and pre-eclampsia: From genetic risk to pre-symptomatic biomarker. Cytokine, 2015, 71, 360-365.	3.2	26
42	Inhibition of miR-181a promotes midbrain neuronal growth through a Smad1/5-dependent mechanism: implications for Parkinsonâ€™s disease. Neuronal Signaling, 2018, 2, NS20170181.	3.2	26
43	The Effect of Hypertensive Disorders of Pregnancy on the Risk of ADHD in the Offspring. Journal of Attention Disorders, 2019, 23, 692-701.	2.6	26
44	The class II histone deacetylases as therapeutic targets for Parkinsonâ€™s disease. Neuronal Signaling, 2020, 4, NS20200001.	3.2	26
45	IL-1Î² inhibits axonal growth of developing sympathetic neurons. Molecular and Cellular Neurosciences, 2011, 48, 142-150.	2.2	24
46	Zeb2 is a negative regulator of midbrain dopaminergic axon growth and target innervation. Scientific Reports, 2017, 7, 8568.	3.3	24
47	Radiologistâ€™s views on anatomical knowledge amongst junior doctors and the teaching of anatomy in medical curricula. Annals of Anatomy, 2019, 223, 70-76.	1.9	24
48	Region-specific role of growth differentiation factor-5 in the establishment of sympathetic innervation. Neural Development, 2016, 11, 4.	2.4	23
49	Effects of intracerebral neurotrophic factor application on motor symptoms in Parkinson's disease: A systematic review and meta-analysis. Parkinsonism and Related Disorders, 2017, 38, 19-25.	2.2	20
50	Targeting bone morphogenetic protein signalling in midbrain dopaminergic neurons as a therapeutic approach in Parkinson's disease. Neuronal Signaling, 2017, 1, NS20170027.	3.2	19
51	A perspective on preâ€eclampsia and neurodevelopmental outcomes in the offspring: Does maternal inflammation play a role?. International Journal of Developmental Neuroscience, 2019, 77, 69-76.	1.6	19
52	The Universal Design for Learning Framework in Anatomical Sciences Education. Anatomical Sciences Education, 2021, 14, 71-78.	3.7	18
53	Hypertensive disorders of pregnancy and risk of neurodevelopmental disorders in the offspring: a systematic review and meta-analysis protocol. BMJ Open, 2017, 7, e018313.	1.9	17
54	The potential of bone morphogenetic protein 2 as a neurotrophic factor for Parkinson's disease. Neural Regeneration Research, 2020, 15, 1432.	3.0	17

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55	The spatial and temporal arrangement of the radial glial scaffold suggests a role in axon tract formation in the developing spinal cord. Journal of Anatomy, 2013, 222, 203-213.	1.5	16
56	The neurite growth inhibitory effects of soluble TNFÎ± on developing sympathetic neurons are dependent on developmental age. Differentiation, 2014, 88, 124-130.	1.9	15
57	The intracellular portion of GITR enhances NGF-promoted neurite growth through an inverse modulation of Erk and NF-ÎºB signalling. Biology Open, 2012, 1, 1016-1023.	1.2	14
58	Transplantation of novel human <scp>GDF</scp>5â€expressing <scp>CHO</scp> cells is neuroprotective in models of <scp>P</scp>arkinson's disease. Journal of Cellular and Molecular Medicine, 2012, 16, 2451-2460.	3.6	14
59	LMK235, a small molecule inhibitor of HDAC4/5, protects dopaminergic neurons against neurotoxin- and Î±-synuclein-induced degeneration in cellular models of Parkinson's disease. Molecular and Cellular Neurosciences, 2021, 115, 103642.	2.2	14
60	Gene Co-expression Analysis Identifies Histone Deacetylase 5 and 9 Expression in Midbrain Dopamine Neurons and as Regulators of Neurite Growth via Bone Morphogenetic Protein Signaling. Frontiers in Cell and Developmental Biology, 2019, 7, 191.	3.7	13
61	Gene co-expression analysis of the human substantia nigra identifies BMP2 as a neurotrophic factor that can promote neurite growth in cells overexpressing wild-type or A53T Î±-synuclein. Parkinsonism and Related Disorders, 2019, 64, 194-201.	2.2	13
62	Predicting infant neurodevelopmental outcomes using the placenta?. Trends in Molecular Medicine, 2014, 20, 303-305.	6.7	12
63	Class-Specific Histone Deacetylase Inhibitors Promote 11-Beta Hydroxysteroid Dehydrogenase Type 2 Expression in JEG-3 Cells. International Journal of Cell Biology, 2017, 2017, 1-10.	2.5	12
64	Temporally Altered miRNA Expression in a Piglet Model of Hypoxic Ischemic Brain Injury. Molecular Neurobiology, 2020, 57, 4322-4344.	4.0	12
65	Peripheral administration of the Class-IIa HDAC inhibitor MC1568 partially protects against nigrostriatal neurodegeneration in the striatal 6-OHDA rat model of Parkinsonâ€™s disease. Brain, Behavior, and Immunity, 2022, 102, 151-160.	4.1	12
66	Nociceptin/Orphanin FQ Inhibits the Survival and Axon Growth of Midbrain Dopaminergic Neurons Through a p38-MAPK Dependent Mechanism. Molecular Neurobiology, 2016, 53, 7284-7297.	4.0	11
67	Endocytosis contributes to BMP2-induced Smad signalling and neuronal growth. Neuroscience Letters, 2017, 643, 32-37.	2.1	11
68	STRAP and NME1 Mediate the Neurite Growth-Promoting Effects of the Neurotrophic Factor GDF5. IScience, 2020, 23, 101457.	4.1	11
69	Alterations in Î±-synuclein and PINK1 expression reduce neurite length and induce mitochondrial fission and Golgi fragmentation in midbrain neurons. Neuroscience Letters, 2020, 720, 134777.	2.1	11
70	Placental FKBP51 mediates a link between second trimester maternal anxiety and birthweight in female infants. Scientific Reports, 2018, 8, 15151.	3.3	10
71	Growth differentiation factor 5 exerts neuroprotection in an Î±-synuclein rat model of Parkinsonâ€™s disease. Brain, 2021, 144, e14-e14.	7.6	10
72	Protocol for evaluation of neurotrophic strategies in Parkinson. Journal of Biological Methods, 2016, 3, e50.	0.6	10

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73	Googling in anatomy education: Can google trends inform educators of national online search patterns of anatomical syllabi?. Anatomical Sciences Education, 2017, 10, 152-159.	3.7	9
74	Romidepsin induces caspase-dependent cell death in human neuroblastoma cells. Neuroscience Letters, 2017, 653, 12-18.	2.1	8
75	Knockdown of interleukin-1 receptor 1 is not neuroprotective in the 6-hydroxydopamine striatal lesion rat model of Parkinson's disease. International Journal of Neuroscience, 2015, 125, 70-77.	1.6	6
76	The association between caesarean section and cognitive ability in childhood. Social Psychiatry and Psychiatric Epidemiology, 2020, 55, 1231-1240.	3.1	6
77	NME1 Protects Against Neurotoxin-, Î±-Synuclein- and LRRK2-Induced Neurite Degeneration in Cell Models of Parkinsonâ€™s Disease. Molecular Neurobiology, 2022, 59, 61-76.	4.0	6
78	Magnesium sulphate prevents lipopolysaccharide-induced cell death in an in vitro model of the human placenta. Pregnancy Hypertension, 2016, 6, 356-360.	1.4	5
79	The need for ethical and pedagogical frameworks for developing online media in anatomy education. Anatomical Sciences Education, 2016, 9, 498-499.	3.7	5
80	4-Hydroxychalcone Induces Cell Death via Oxidative Stress in MYCN-Amplified Human Neuroblastoma Cells. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-16.	4.0	5
81	The Association Between Preeclampsia and Childhood Development and Behavioural Outcomes. Maternal and Child Health Journal, 2020, 24, 727-738.	1.5	5
82	Growth differentiation factor 5: a neurotrophic factor with neuroprotective potential in Parkinsonâ€™s disease. Neural Regeneration Research, 2022, 17, 38.	3.0	5
83	Maternal Immune Activation and Interleukin 17A in the Pathogenesis of Autistic Spectrum Disorder and Why It Matters in the COVID-19 Era. Frontiers in Psychiatry, 2022, 13, 823096.	2.6	5
84	6-Hydroxydopamine induces distinct alterations in GDF5 and GDNF mRNA expression in the rat nigrostriatal system in vivo. Neuroscience Letters, 2014, 561, 176-181.	2.1	4
85	Quinacrine and Niclosamide Promote Neurite Growth in Midbrain Dopaminergic Neurons Through the Canonical BMP-Smad Pathway and Protect Against Neurotoxin and Î±-Synuclein-Induced Neurodegeneration. Molecular Neurobiology, 2021, 58, 3405-3416.	4.0	4
86	Association of distinct type 1 bone morphogenetic protein receptors with different molecular pathways and survival outcomes in neuroblastoma. Neuronal Signaling, 2020, 4, NS20200006.	3.2	4
87	Expression of endogenous Mkp1 in 6-OHDA rat models of Parkinsonâ€™s disease. SpringerPlus, 2014, 3, 205.	1.2	3
88	Editorial: The Role of Stem Cells, Epigenetics and MicroRNAs in Parkinson's Disease. Frontiers in Neuroscience, 2020, 14, 515.	2.8	3
89	Prenatal maternal stress and risk of neurodevelopmental disorders in the offspring: A systematic review and meta-analysis protocol. HRB Open Research, 0, 1, 15.	0.6	3
90	A new role for placental IL-6 signalling in determining neurodevelopmental outcome. Brain, Behavior, and Immunity, 2017, 62, 9-10.	4.1	2

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91	An Attitudinal Survey of Undergraduate Neuroscience Students Regarding Their Views on the Relevance of Lectures to their Education. Journal of Undergraduate Neuroscience Education: JUNE: A Publication of FUN, Faculty for Undergraduate Neuroscience, 2017, 16, A28-A33.	0.0	2
92	Ventral midbrain neural stem cells have delayed neurogenic potential in vitro. Neuroscience Letters, 2014, 559, 193-198.	2.1	1
93	Gene Co-expression Analysis of the Human Substantia Nigra Identifies ZNHIT1 as an SNCA Co-expressed Gene that Protects Against Î±-Synuclein-Induced Impairments in Neurite Growth and Mitochondrial Dysfunction in SH-SY5Y Cells. Molecular Neurobiology, 2022, 59, 2745-2757.	4.0	1
94	Characterisation of the consequences of maternal immune activation on distinct cell populations in the developing rat spinal cord. Journal of Anatomy, 2022, 241, 938-950.	1.5	1
95	Targeting transcriptional regulators to regenerate midbrain dopaminergic axons in Parkinson's disease. Neural Regeneration Research, 2017, 12, 1814.	3.0	0