

Marcus Rattray

List of Publications by Citations

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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.

88

papers

3,460

citations

31

h-index

57

g-index

91

ext. papers

3,656

ext. citations

4.2

avg, IF

4.83

L-index

#	Paper	IF	Citations
88	Nerve growth factor treatment increases brain-derived neurotrophic factor selectively in TrkA-expressing dorsal root ganglion cells and in their central terminations within the spinal cord. <i>Journal of Neuroscience</i> , 1997 , 17, 8476-90	6.6	450
87	Transgenic SOD1 G93A mice develop reduced GLT-1 in spinal cord without alterations in cerebrospinal fluid glutamate levels. <i>Journal of Neurochemistry</i> , 2001 , 79, 737-46	6	148
86	(-)-Epicatechin stimulates ERK-dependent cyclic AMP response element activity and up-regulates GluR2 in cortical neurons. <i>Journal of Neurochemistry</i> , 2007 , 101, 1596-606	6	147
85	Rapid increase of NGF, BDNF and NT-3 mRNAs in inflamed bladder. <i>NeuroReport</i> , 1998 , 9, 1455-8	1.7	134
84	Acute nicotine decreases, and chronic nicotine increases the expression of brain-derived neurotrophic factor mRNA in rat hippocampus. <i>Molecular Brain Research</i> , 2000 , 85, 234-8		126
83	Dietary levels of pure flavonoids improve spatial memory performance and increase hippocampal brain-derived neurotrophic factor. <i>PLoS ONE</i> , 2013 , 8, e63535	3.7	118
82	Hippocampal neurotrophin and trk receptor mRNA levels are altered by local administration of nicotine, carbachol and pilocarpine. <i>Molecular Brain Research</i> , 1999 , 67, 124-36		107
81	Induction of aquaporin 1 but not aquaporin 4 messenger RNA in rat primary brain microvessel endothelial cells in culture. <i>Journal of Neurochemistry</i> , 2005 , 93, 825-33	6	99
80	Genes encoding multiple forms of phospholipase A2 are expressed in rat brain. <i>Neuroscience Letters</i> , 1998 , 258, 139-42	3.3	96
79	The glial glutamate transporter, EAAT2 (Glt-1) accounts for high affinity glutamate uptake into adult rodent nerve endings. <i>Journal of Neurochemistry</i> , 2003 , 84, 522-32	6	88
78	Distribution of messenger RNAs encoding enkephalin, substance P, somatostatin, galanin, vasoactive intestinal polypeptide, neuropeptide Y, and calcitonin gene-related peptide in the midbrain periaqueductal grey in the rat. <i>Journal of Comparative Neurology</i> , 1994 , 350, 23-40	3.4	87
77	Blueberry supplementation induces spatial memory improvements and region-specific regulation of hippocampal BDNF mRNA expression in young rats. <i>Psychopharmacology</i> , 2012 , 223, 319-30	4.7	85
76	Cultured astrocytes express messenger RNA for multiple serotonin receptor subtypes, without functional coupling of 5-HT1 receptor subtypes to adenylyl cyclase. <i>Molecular Brain Research</i> , 1998 , 61, 90-9		84
75	Riluzole elevates GLT-1 activity and levels in striatal astrocytes. <i>Neurochemistry International</i> , 2012 , 60, 31-8	4.4	78
74	Serotonin transporters in adult rat brain astrocytes revealed by [³ H]5-HT uptake into glial plasmalemmal vesicles. <i>Neurochemistry International</i> , 1998 , 33, 11-22	4.4	67
73	Altered expression of group I metabotropic glutamate receptors in the hippocampus of amygdala-kindled rats. <i>Molecular Brain Research</i> , 1996 , 43, 105-16		64
72	Identification of 5-hydroxytryptamine receptors positively coupled to adenylyl cyclase in rat cultured astrocytes. <i>British Journal of Pharmacology</i> , 1997 , 120, 509-15	8.6	62

71	The metabolism of neuropeptides. Endopeptidase-24.11 in human synaptic membrane preparations hydrolyses substance P. <i>Biochemical Journal</i> , 1985 , 228, 487-92	3.8	60
70	Dietary flavonoid (-)epicatechin stimulates phosphatidylinositol 3-kinase-dependent anti-oxidant response element activity and up-regulates glutathione in cortical astrocytes. <i>Journal of Neurochemistry</i> , 2008 , 106, 2194-204	6	58
69	Serotonin and NADPH-diaphorase in the dorsal raphe nucleus of the adult rat. <i>Neuroscience Letters</i> , 1994 , 173, 31-6	3.3	57
68	Reduction of GABA and glutamate transporter messenger RNAs in the severe-seizure genetically epilepsy-prone rat. <i>Neuroscience</i> , 1998 , 85, 1235-51	3.9	56
67	Differential expression of GABA transporter-1 messenger RNA in subpopulations of GABA neurones. <i>Neuroscience Letters</i> , 1993 , 156, 163-6	3.3	56
66	Expression of SOD1 G93A or wild-type SOD1 in primary cultures of astrocytes down-regulates the glutamate transporter GLT-1: lack of involvement of oxidative stress. <i>Journal of Neurochemistry</i> , 2004 , 88, 481-93	6	51
65	Nicotine regulates 5-HT(1A) receptor gene expression in the cerebral cortex and dorsal hippocampus. <i>European Journal of Neuroscience</i> , 2001 , 13, 1267-71	3.5	48
64	Neuroprotective effects of hesperetin in mouse primary neurones are independent of CREB activation. <i>Neuroscience Letters</i> , 2008 , 438, 29-33	3.3	47
63	p-Chlorphenylalanine changes serotonin transporter mRNA levels and expression of the gene product. <i>Journal of Neurochemistry</i> , 1996 , 67, 463-72	6	46
62	TrkA immunoreactive neurones in the rat spinal cord 1997 , 385, 441-455		43
61	The four major N- and C-terminal splice variants of the excitatory amino acid transporter GLT-1 form cell surface homomeric and heteromeric assemblies. <i>Molecular Pharmacology</i> , 2009 , 75, 1062-73	4.3	39
60	Riluzole neuroprotection in a Parkinson's disease model involves suppression of reactive astrocytosis but not GLT-1 regulation. <i>BMC Neuroscience</i> , 2012 , 13, 38	3.2	37
59	Circadian changes of glutamate decarboxylase 65 and 67 mRNA in the rat suprachiasmatic nuclei. <i>NeuroReport</i> , 1996 , 7, 1925-8	1.7	37
58	A combined in situ hybridization and immunofluorescence procedure allowing visualisation of peptide mRNA and serotonin in single sections. <i>Journal of Neuroscience Methods</i> , 1993 , 48, 99-110	3	37
57	Intraregional variation in expression of serotonin transporter messenger RNA by 5-hydroxytryptamine neurons. <i>Neuroscience</i> , 1999 , 88, 169-83	3.9	31
56	Neuroprotective effects of phenolic antioxidant tBHQ associate with inhibition of FoxO3a nuclear translocation and activity. <i>Journal of Neurochemistry</i> , 2012 , 123, 182-91	6	29
55	Chronic hypoxia in the human neuroblastoma SH-SY5Y causes reduced expression of the putative alpha-secretases, ADAM10 and TACE, without altering their mRNA levels. <i>Brain Research</i> , 2006 , 1099, 18-24	3.7	29
54	Intraperitoneal insulin is more potent than subcutaneous insulin at restoring hepatic insulin-like growth factor-I mRNA levels in the diabetic rat: a functional role for the portal vascular link. <i>Journal of Molecular Endocrinology</i> , 1992 , 9, 257-63	4.5	29

53	Sonic hedgehog signalling mediates astrocyte crosstalk with neurons to confer neuroprotection. <i>Journal of Neurochemistry</i> , 2017 , 142, 429-443	6	27
52	NG2 cells differentiate into astrocytes in cerebellar slices. <i>Molecular and Cellular Neurosciences</i> , 2009 , 42, 208-18	4.8	27
51	Circadian variation of EAAC1 glutamate transporter messenger RNA in the rat suprachiasmatic nuclei. <i>Molecular Brain Research</i> , 1996 , 35, 190-6		27
50	Neuronal influences are necessary to produce mitochondrial co-localization with glutamate transporters in astrocytes. <i>Journal of Neurochemistry</i> , 2014 , 130, 668-77	6	26
49	Tumour necrosis factor alpha induces rapid reduction in AMPA receptor-mediated calcium entry in motor neurones by increasing cell surface expression of the GluR2 subunit: relevance to neurodegeneration. <i>Journal of Neurochemistry</i> , 2010 , 113, 692-703	6	26
48	Selective up-regulation of protein kinase C epsilon in granule cells after kainic acid-induced seizures in rat. <i>Molecular Brain Research</i> , 1997 , 49, 188-96		26
47	Chronic D-fenfluramine decreases serotonin transporter messenger RNA expression in dorsal raphe nucleus. <i>European Journal of Pharmacology</i> , 1994 , 268, 439-42		26
46	Regulation of NF- κ B activity in astrocytes: effects of flavonoids at dietary-relevant concentrations. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 418, 578-83	3.4	25
45	Is there nicotinic modulation of nerve growth factor? Implications for cholinergic therapies in Alzheimer's disease. <i>Biological Psychiatry</i> , 2001 , 49, 185-93	7.9	25
44	SUMO-1 conjugation blocks beta-amyloid-induced astrocyte reactivity. <i>Neuroscience Letters</i> , 2013 , 546, 51-6	3.3	23
43	Variation in the expression of the mRNA for protein kinase C isoforms in the rat suprachiasmatic nuclei, caudate putamen and cerebral cortex. <i>Molecular Brain Research</i> , 1998 , 53, 277-84		22
42	Soya phytoestrogens change cortical and hippocampal expression of BDNF mRNA in male rats. <i>Neuroscience Letters</i> , 2003 , 338, 135-8	3.3	22
41	Growth hormone increases IGF-I, collagen I and collagen III gene expression in dwarf rat skeletal muscle. <i>Molecular and Cellular Endocrinology</i> , 1995 , 115, 187-97	4.4	21
40	The novel CCK antagonist L364,718 abolished caerulein- but potentiates morphine-induced antinociception. <i>European Journal of Pharmacology</i> , 1988 , 152, 163-6	5.3	20
39	Neuronal-glia populations form functional networks in a biocompatible 3D scaffold. <i>Neuroscience Letters</i> , 2015 , 609, 198-202	3.3	19
38	Does excitotoxic cell death of motor neurons in ALS arise from glutamate transporter and glutamate receptor abnormalities?. <i>Experimental Neurology</i> , 2006 , 201, 15-23	5.7	19
37	Expression of amyloid precursor protein, tau and presenilin RNAs in rat hippocampus following deafferentation lesions. <i>Brain Research</i> , 2001 , 907, 222-32	3.7	19
36	Benzodiazepines increase preprocholecystokinin messenger RNA levels in rat brain. <i>European Journal of Pharmacology</i> , 1993 , 245, 193-6		19

35	Expression of GABA transporter mRNAs in the developing and adult rat optic nerve. <i>Neuroscience Letters</i> , 1997 , 235, 98-100	3.3	18
34	Two populations of cells that express preprocholecystokinin mRNA in ventral periaqueductal grey. <i>Neuroscience Letters</i> , 1992 , 143, 55-9	3.3	18
33	Elevated levels of group-III metabotropic glutamate receptors in the inferior colliculus of genetically epilepsy-prone rats following intracollicular administration of L-serine-O-phosphate. <i>Journal of Neurochemistry</i> , 2001 , 78, 13-23	6	17
32	Morphine action on cholecystokinin octapeptide release from rat periaqueductal grey slices: sensitisation by naloxone. <i>Neuropeptides</i> , 1987 , 10, 189-200	3.3	15
31	Astrocytes Grown in Alvetex(□) Three Dimensional Scaffolds Retain a Non-reactive Phenotype. <i>Neurochemical Research</i> , 2016 , 41, 1857-67	4.6	15
30	Astrocytic transporters in Alzheimer's disease. <i>Biochemical Journal</i> , 2017 , 474, 333-355	3.8	13
29	Endoplasmic Reticulum Stress Signalling Induces Casein Kinase 1-Dependent Formation of Cytosolic TDP-43 Inclusions in Motor Neuron-Like Cells. <i>Neurochemical Research</i> , 2020 , 45, 1354-1364	4.6	13
28	Embedding VTK and ITK into a visual programming and rapid prototyping platform 2006 ,		11
27	Analysis of the neuronal promoter of the rat aromatic L-amino acid decarboxylase gene. <i>Journal of Neurochemistry</i> , 1995 , 65, 1944-54	6	10
26	Rat brain serotonin neurones that express neuronal nitric oxide synthase have increased sensitivity to the substituted amphetamine serotonin toxins 3,4-methylenedioxymethamphetamine and p-chloroamphetamine. <i>Neuroscience</i> , 2005 , 134, 1363-75	3.9	9
25	Riluzole-Triazole Hybrids as Novel Chemical Probes for Neuroprotection in Amyotrophic Lateral Sclerosis. <i>ACS Medicinal Chemistry Letters</i> , 2018 , 9, 552-556	4.3	9
24	Repeated administration of MDMA down-regulates preprocholecystokinin mRNA expression but not tyrosine hydroxylase mRNA expression in neurones of the rat substantia nigra. <i>Molecular Brain Research</i> , 1994 , 25, 34-40		7
23	Effects of hypophysectomy and growth hormone administration on the mRNA levels of collagen I, III and insulin-like growth factor-I in rat skeletal muscle. <i>Growth Hormone and IGF Research</i> , 1998 , 8, 431-8	2	6
22	Immunoablation of cells expressing the NG2 chondroitin sulphate proteoglycan. <i>Journal of Anatomy</i> , 2014 , 224, 216-27	2.9	5
21	Serotonin transporter expression is not sufficient to confer cytotoxicity to 3,4-methylenedioxymethamphetamine (MDMA) in vitro. <i>Journal of Psychopharmacology</i> , 2006 , 20, 257-63	4.6	5
20	Technology evaluation: colostrinin, ReGen. <i>Current Opinion in Molecular Therapeutics</i> , 2005 , 7, 78-84		5
19	Ligand autoradiographic receptor screening: receptor cDNA expression in replicas of transfected COS cells. <i>Molecular Brain Research</i> , 1990 , 7, 249-59		4
18	Caerulein-induced antinociception: interaction with morphine and opioid antagonists in the rat. <i>Neuropeptides</i> , 1989 , 14, 263-8	3.3	3

17	Quantitation of cholecystokinin mRNA in the rat brain by slot-blotting and northern analysis: Preliminary studies on the effect of acute morphine. <i>Regulatory Peptides</i> , 1986 , 15, 190		3
16	The case for mobile cancer care units: an NHS team's experience. <i>British Journal of Health Care Management</i> , 2021 , 27, 152-155	0.4	3
15	A preliminary analysis of the hybridization kinetics of an oligonucleotide to mRNA in tissue sections. <i>Biochemical Society Transactions</i> , 1992 , 20, 305S	5.1	2
14	Neuronal cholecystokinin release: morphine and naloxone effects on rat periaqueductal grey. <i>Biochemical Society Transactions</i> , 1986 , 14, 600-600	5.1	2
13	An Analysis of Pharmacogenomic-Guided Pathways and Their Effect on Medication Changes and Hospital Admissions: A Systematic Review and Meta-Analysis. <i>Frontiers in Genetics</i> , 2021 , 12, 698148	4.5	2
12	An exploration of the impact of SARS-CoV-2 (COVID-19) restrictions on marginalised groups in the UK. <i>Public Health</i> , 2021 , 197, 6-10	4	2
11	Down-regulation of protein kinase C isoform gene expression in degenerating thalamic neurones—lack of induction in reactive glial cells. <i>Biochemical Society Transactions</i> , 1994 , 22, 291S	5.1	1
10	Regulation of glutamate decarboxylase and enkephalin mRNA levels in rat striatum by chronic benzodiazepine treatment. <i>Biochemical Society Transactions</i> , 1992 , 20, 303S	5.1	1
9	A new method of screening receptor cDNAs: influence of plasmid competition on receptor expression. <i>Biochemical Society Transactions</i> , 1989 , 17, 1068-9	5.1	1
8	Evidence for time dependence of morphine effects on cholecystokinin release from rat periaqueductal grey. <i>Biochemical Society Transactions</i> , 1988 , 16, 538-539	5.1	1
7	Erratum. <i>Advances in Neurobiology</i> , 2017 , 15, E1	2.1	1
6	Patient Perspectives on Factors Affecting Direct Oral Anticoagulant Use for Stroke Prevention in Atrial Fibrillation. <i>Patient Preference and Adherence</i> , 2021 , 15, 953-966	2.4	1
5	Elucidating the mechanisms of TDP-43 aggregation in a cellular model of motor neuron disease. <i>SpringerPlus</i> , 2015 , 4, L23		
4	Potential Neuroprotective Actions of Dietary Flavonoids 2013 , 2617-2640		
3	Amplification of members of the neurotransmitter transporter superfamily using PCR. <i>Biochemical Society Transactions</i> , 1992 , 20, 304S	5.1	
2	The neuropeptide cholecystokinin (CCK): Anatomy and biochemistry, receptors, pharmacology and physiology. <i>Neurochemistry International</i> , 1990 , 17, 633-634	4.4	
1	Nerve growth factor and sensory nerve function 1999 , 167-193		