

Andrew F Russo

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110
papers

4,419
citations

40
h-index

64
g-index

121
ext. papers

5,102
ext. citations

6.4
avg, IF

6.02
L-index

#	Paper	IF	Citations
110	Molecular cloning of a brain-specific calcium/calmodulin-dependent protein kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987 , 84, 5962-6	11.5	244
109	Calcitonin gene-related peptide (CGRP): a new target for migraine. <i>Annual Review of Pharmacology and Toxicology</i> , 2015 , 55, 533-52	17.9	210
108	Separation of signal transduction and adaptation functions of the aspartate receptor in bacterial sensing. <i>Science</i> , 1983 , 220, 1016-20	33.3	198
107	Sensitization of calcitonin gene-related peptide receptors by receptor activity-modifying protein-1 in the trigeminal ganglion. <i>Journal of Neuroscience</i> , 2007 , 27, 2693-703	6.6	175
106	Regulation of calcitonin gene-related peptide secretion by a serotonergic antimigraine drug. <i>Journal of Neuroscience</i> , 1999 , 19, 3423-9	6.6	153
105	Role of calcitonin gene-related peptide in light-aversive behavior: implications for migraine. <i>Journal of Neuroscience</i> , 2009 , 29, 8798-804	6.6	130
104	Retinoic acid is enriched in Hensen's node and is developmentally regulated in the early chicken embryo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 10056-9	11.5	126
103	Neuron-specific alternative RNA processing in transgenic mice expressing a metallothionein-calcitonin fusion gene. <i>Cell</i> , 1987 , 49, 389-98	56.2	126
102	A second trigeminal CGRP receptor: function and expression of the AMY1 receptor. <i>Annals of Clinical and Translational Neurology</i> , 2015 , 2, 595-608	5.3	118
101	Calcitonin gene-related peptide in migraine: intersection of peripheral inflammation and central modulation. <i>Expert Reviews in Molecular Medicine</i> , 2011 , 13, e36	6.7	115
100	Nitric oxide regulation of calcitonin gene-related peptide gene expression in rat trigeminal ganglia neurons. <i>European Journal of Neuroscience</i> , 2006 , 23, 2057-66	3.5	108
99	Multifunctional role of the Pitx2 homeodomain protein C-terminal tail. <i>Molecular and Cellular Biology</i> , 1999 , 19, 7001-10	4.8	106
98	The molecular basis of Rieger syndrome. Analysis of Pitx2 homeodomain protein activities. <i>Journal of Biological Chemistry</i> , 1998 , 273, 20066-72	5.4	104
97	BDNF induction of tryptophan hydroxylase mRNA levels in the rat brain. <i>Journal of Neuroscience Research</i> , 1998 , 52, 149-58	4.4	95
96	Stimulation of the calcitonin gene-related peptide enhancer by mitogen-activated protein kinases and repression by an antimigraine drug in trigeminal ganglia neurons. <i>Journal of Neuroscience</i> , 2003 , 23, 807-15	6.6	88
95	Tumor necrosis factor-alpha stimulation of calcitonin gene-related peptide expression and secretion from rat trigeminal ganglion neurons. <i>Journal of Neurochemistry</i> , 2006 , 96, 65-77	6	85
94	Overview of Neuropeptides: Awakening the Senses?. <i>Headache</i> , 2017 , 57 Suppl 2, 37-46	4.2	82

93	Induction of multiple photophobic behaviors in a transgenic mouse sensitized to CGRP. <i>Neuropharmacology</i> , 2010 , 58, 156-65	5.5	74
92	Induction of Migraine-Like Photophobic Behavior in Mice by Both Peripheral and Central CGRP Mechanisms. <i>Journal of Neuroscience</i> , 2017 , 37, 204-216	6.6	70
91	Modulation of CGRP-induced light aversion in wild-type mice by a 5-HT(1B/D) agonist. <i>Journal of Neuroscience</i> , 2012 , 32, 15439-49	6.6	66
90	Identification of a dominant negative homeodomain mutation in Rieger syndrome. <i>Journal of Biological Chemistry</i> , 2001 , 276, 23034-41	5.4	66
89	Neuronal expression of chimeric genes in transgenic mice. <i>Neuron</i> , 1988 , 1, 311-20	13.9	64
88	CGRP and migraine: could PACAP play a role too?. <i>Neuropeptides</i> , 2013 , 47, 451-61	3.3	62
87	Requirement of the MASH-1 transcription factor for neuroendocrine differentiation of thyroid C cells. <i>Journal of Neurobiology</i> , 1998 , 34, 126-134		57
86	New insights into the molecular actions of serotonergic antimigraine drugs 2002 , 94, 77-92		56
85	Behavioral and cognitive animal models in headache research. <i>Journal of Headache and Pain</i> , 2019 , 20, 11	8.8	54
84	Calcitonin gene-related peptide: an update on the biology. <i>Current Opinion in Neurology</i> , 2009 , 22, 241-67.1		54
83	Genetic enhancement of calcitonin gene-related Peptide-induced central sensitization to mechanical stimuli in mice. <i>Journal of Pain</i> , 2009 , 10, 992-1000	5.2	53
82	Tissue-specific glucocorticoid regulation of tryptophan hydroxylase mRNA levels. <i>Molecular Brain Research</i> , 1997 , 48, 346-54		49
81	Repression of the calcitonin gene-related peptide promoter by 5-HT1 receptor activation. <i>Journal of Neuroscience</i> , 1997 , 17, 9545-53	6.6	48
80	CGRP receptor antagonist activity of olcegepant depends on the signalling pathway measured. <i>Cephalalgia</i> , 2018 , 38, 437-451	6.1	47
79	Neuronal receptor activity-modifying protein 1 promotes energy expenditure in mice. <i>Diabetes</i> , 2011 , 60, 1063-71	0.9	46
78	Vascular Contributions to Migraine: Time to Revisit?. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 233	6.1	44
77	Current understanding of trigeminal ganglion structure and function in headache. <i>Cephalalgia</i> , 2019 , 39, 1661-1674	6.1	44
76	Binding of upstream stimulatory factor and a cell-specific activator to the calcitonin/calcitonin gene-related peptide enhancer. <i>Journal of Biological Chemistry</i> , 1997 , 272, 18316-24	5.4	44

75	Peripherally administered calcitonin gene-related peptide induces spontaneous pain in mice: implications for migraine. <i>Pain</i> , 2018 , 159, 2306-2317	8	42
74	Cortical spreading depression as a site of origin for migraine: Role of CGRP. <i>Cephalalgia</i> , 2019 , 39, 428-434	4.1	41
73	Amylin acts in the central nervous system to increase sympathetic nerve activity. <i>Endocrinology</i> , 2013 , 154, 2481-8	4.8	40
72	Differential regulation of mitogen-activated protein kinase-responsive genes by the duration of a calcium signal. <i>Molecular Endocrinology</i> , 2000 , 14, 1570-82		40
71	Transcriptional antagonism between Hmx1 and Nkx2.5 for a shared DNA-binding site. <i>Journal of Biological Chemistry</i> , 1999 , 274, 11635-42	5.4	40
70	A Potential Preclinical Migraine Model: CGRP-Sensitized Mice. <i>Molecular and Cellular Pharmacology</i> , 2009 , 1, 264-270		38
69	Developmental regulation of tryptophan hydroxylase messenger RNA expression and enzyme activity in the raphe and its target fields. <i>Neuroscience</i> , 2000 , 101, 665-77	3.9	37
68	Receptor activity-modifying protein 1 increases baroreflex sensitivity and attenuates Angiotensin-induced hypertension. <i>Hypertension</i> , 2010 , 55, 627-35	8.5	36
67	Calcitonin gene-related peptide receptor activation by receptor activity-modifying protein-1 gene transfer to vascular smooth muscle cells. <i>Endocrinology</i> , 2006 , 147, 1932-40	4.8	35
66	Serotonergic repression of mitogen-activated protein kinase control of the calcitonin gene-related peptide enhancer. <i>Molecular Endocrinology</i> , 1998 , 12, 1002-9		35
65	CGRP induction in cystic fibrosis airways alters the submucosal gland progenitor cell niche in mice. <i>Journal of Clinical Investigation</i> , 2011 , 121, 3144-58	15.9	32
64	CGRP as a neuropeptide in migraine: lessons from mice. <i>British Journal of Clinical Pharmacology</i> , 2015 , 80, 403-14	3.8	30
63	Dominant negative dimerization of a mutant homeodomain protein in Axenfeld-Rieger syndrome. <i>Molecular and Cellular Biology</i> , 2003 , 23, 1968-82	4.8	30
62	Cross-talk signaling in the trigeminal ganglion: role of neuropeptides and other mediators. <i>Journal of Neural Transmission</i> , 2020 , 127, 431-444	4.3	29
61	Autoregulation of cell-specific MAP kinase control of the tryptophan hydroxylase promoter. <i>Journal of Biological Chemistry</i> , 2001 , 276, 21262-71	5.4	28
60	Gene transfer of calcitonin gene-related peptide to cerebral arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H586-94	5.2	27
59	Epigenetic regulation of the calcitonin gene-related peptide gene in trigeminal glia. <i>Cephalalgia</i> , 2011 , 31, 614-24	6.1	26
58	Light aversion in mice depends on nonimage-forming irradiance detection. <i>Behavioral Neuroscience</i> , 2010 , 124, 821-7	2.1	26

57	Isolation of cDNA clones encoding small nuclear ribonucleoparticle-associated proteins with different tissue specificities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989 , 86, 9778-82	11.5	26
56	Neuronal expression and regulation of CGRP promoter activity following viral gene transfer into cultured trigeminal ganglia neurons. <i>Brain Research</i> , 2004 , 997, 103-10	3.7	25
55	Calcitonin gene-related peptide (CGRP): role in migraine pathophysiology and therapeutic targeting. <i>Expert Opinion on Therapeutic Targets</i> , 2020 , 24, 91-100	6.4	25
54	Calcium receptor-induced serotonin secretion by parafollicular cells: role of phosphatidylinositol 3-kinase-dependent signal transduction pathways. <i>Journal of Neuroscience</i> , 2003 , 23, 2049-57	6.6	23
53	Cell-specific activation of the atrial natriuretic factor promoter by PITX2 and MEF2A. <i>Journal of Biological Chemistry</i> , 2004 , 279, 52087-94	5.4	23
52	Serotonergic Neuronal Properties in C-Cell Lines. <i>Methods</i> , 1995 , 7, 253-261	4.6	23
51	Anti-CGRP antibodies block CGRP-induced diarrhea in mice. <i>Neuropeptides</i> , 2017 , 64, 95-99	3.3	21
50	Reactive oxygen species induce procalcitonin expression in trigeminal ganglia glia. <i>Headache</i> , 2014 , 54, 472-84	4.2	21
49	Receptor activity-modifying protein-1 augments cerebrovascular responses to calcitonin gene-related peptide and inhibits angiotensin II-induced vascular dysfunction. <i>Stroke</i> , 2010 , 41, 2329-34	6.7	21
48	An unusual class of PITX2 mutations in Axenfeld-Rieger syndrome. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2006 , 76, 175-81		21
47	NCS-1 inhibits insulin-stimulated GLUT4 translocation in 3T3L1 adipocytes through a phosphatidylinositol 4-kinase-dependent pathway. <i>Journal of Biological Chemistry</i> , 2002 , 277, 27494-500	5.4	20
46	Thyroid parafollicular cells. An accessible model for the study of serotonergic neurons. <i>Molecular Neurobiology</i> , 1996 , 13, 257-76	6.2	20
45	Amylin Analog Pramlintide Induces Migraine-like Attacks in Patients. <i>Annals of Neurology</i> , 2021 , 89, 1157-1171	11.71	19
44	Induction of calcitonin gene-related peptide expression in rats by cortical spreading depression. <i>Cephalalgia</i> , 2019 , 39, 333-341	6.1	18
43	Regulation of the cell-specific calcitonin/calcitonin gene-related peptide enhancer by USF and the Foxa2 forkhead protein. <i>Journal of Biological Chemistry</i> , 2004 , 279, 49948-55	5.4	17
42	Analysis of two translocation breakpoints and identification of a negative regulatory element in patients with Rieger's syndrome. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2004 , 70, 82-91		16
41	CGRP-based Migraine Therapeutics: How Might They Work, Why So Safe, and What Next?. <i>ACS Pharmacology and Translational Science</i> , 2019 , 2, 2-8	5.9	16
40	CGRP receptor activity in mice with global expression of human receptor activity modifying protein 1. <i>British Journal of Pharmacology</i> , 2017 , 174, 1826-1840	8.6	15

39	CGRP in Animal Models of Migraine. <i>Handbook of Experimental Pharmacology</i> , 2019 , 255, 85-107	3.2	13
38	Control of the calcitonin gene-related peptide enhancer by upstream stimulatory factor in trigeminal ganglion neurons. <i>Journal of Biological Chemistry</i> , 2008 , 283, 5441-51	5.4	12
37	Identification of the tip-encoded receptor in bacterial sensing. <i>Journal of Bacteriology</i> , 1986 , 165, 276-82.5		12
36	Role of Silicon in Diatom Metabolism : Cyclic Nucleotide Levels, Nucleotide Cyclase, and Phosphodiesterase Activities during Synchronized Growth of <i>Cylindrotheca fusiformis</i> . <i>Plant Physiology</i> , 1984 , 76, 674-9	6.6	11
35	Unanswered questions in headache: so what is photophobia, anyway?. <i>Headache</i> , 2013 , 53, 1677-8	4.2	10
34	Measurement of tryptophan hydroxylase mRNA levels by competitive RT-PCR. <i>Brain Research Protocols</i> , 1998 , 2, 273-85		10
33	Olcegepant, a non-peptide CGRP1 antagonist for migraine treatment. <i>IDrugs: the Investigational Drugs Journal</i> , 2007 , 10, 566-74		9
32	Heat hyperalgesia and mechanical hypersensitivity induced by calcitonin gene-related peptide in a mouse model of neurofibromatosis. <i>PLoS ONE</i> , 2014 , 9, e106767	3.7	8
31	Protein inhibitors of activated STAT (Pias1 and Piasy) differentially regulate pituitary homeobox 2 (PITX2) transcriptional activity. <i>Journal of Biological Chemistry</i> , 2013 , 288, 12580-95	5.4	8
30	Photophobia and abnormally sustained pupil responses in a mouse model of bradyopsia. <i>Investigative Ophthalmology and Visual Science</i> , 2014 , 55, 6878-85		7
29	CGRP receptor antagonists: A new frontier of anti-migraine medications. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2006 , 3, 593-597		6
28	Stimulation of Posterior Thalamic Nuclei Induces Photophobic Behavior in Mice. <i>Headache</i> , 2020 , 60, 1961-1981	4.2	6
27	Vascular actions of peripheral CGRP in migraine-like photophobia in mice. <i>Cephalalgia</i> , 2020 , 40, 1585-1604		6
26	Characterization of the calcitonin/CGRP gene in Williams syndrome. <i>American Journal of Medical Genetics Part A</i> , 1991 , 39, 28-33		5
25	Neuronal Properties of Thyroid C-Cell Tumor Lines. <i>Medical Intelligence Unit</i> , 1996 , 137-161		5
24	Increased receptor activity-modifying protein 1 in the nervous system is sufficient to protect against autonomic dysregulation and hypertension. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 690-703	7.3	5
23	Different forms of traumatic brain injuries cause different tactile hypersensitivity profiles. <i>Pain</i> , 2021 , 162, 1163-1175	8	4
22	Patients With Vestibular Migraine are More Likely to Have Occipital Headaches than those With Migraine Without Vestibular Symptoms. <i>Headache</i> , 2020 , 60, 1581-1591	4.2	4

21	PACAP Induces Light Aversion in Mice by an Inheritable Mechanism Independent of CGRP. <i>Journal of Neuroscience</i> , 2021 , 41, 4697-4715	6.6	4
20	A CGRP receptor antagonist peptide formulated for nasal administration to treat migraine. <i>Journal of Pharmacy and Pharmacology</i> , 2020 , 72, 1352-1360	4.8	3
19	Homeobox protein, Hmx3, in postnatally developing rat submandibular glands. <i>Journal of Histochemistry and Cytochemistry</i> , 2003 , 51, 385-96	3.4	2
18	A rapid PCR protocol for identification of differentially expressed genes from a cDNA library. <i>Genome Research</i> , 1992 , 1, 195-8	9.7	2
17	Induction of Migraine-Like Photophobic Behavior in Mice by Both Peripheral and Central CGRP Mechanisms. <i>Journal of Neuroscience</i> , 2017 , 37, 204-216	6.6	2
16	Automated detection of squint as a sensitive assay of sex-dependent CGRP and amylin-induced pain in mice. <i>Pain</i> , 2021 ,	8	2
15	CGRP induces migraine-like symptoms in mice during both the active and inactive phases. <i>Journal of Headache and Pain</i> , 2021 , 22, 62	8.8	2
14	Investigating Migraine-Like Behavior using Light Aversion in Mice. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	2
13	Dural Immune Cells, CGRP, and Migraine.. <i>Frontiers in Neurology</i> , 2022 , 13, 874193	4.1	2
12	Lessons Learned from CGRP Mutant Mice 2017 , 175-188		1
11	Advent of a New Generation of Antimigraine Medications 2007 ,		1
10	Vitamin D Control of the Calcitonin Gene in Thyroid C Cells 2005 , 687-701		1
9	PACAP induces light aversion in mice by an inheritable mechanism independent of CGRP		1
8	Hypervigilance, Allostatic Load, and Migraine Prevention: Antibodies to CGRP or Receptor. <i>Neurology and Therapy</i> , 2021 , 10, 469-497	4.6	1
7	CGRP Antibodies for Animal Models of Primary and Secondary Headache Disorders. <i>Headache</i> , 2021 , 69-97	0.2	1
6	The voltage-gated Ca ²⁺ channel subunit $\alpha_1\text{E}$ regulates locomotor behavior and sensorimotor gating in mice.. <i>PLoS ONE</i> , 2022 , 17, e0263197	3.7	1
5	Genetic Regulation of CGRP and Its Actions 2010 , 97-114		0
4	CGRP Administration Into the Cerebellum Evokes Light Aversion, Tactile Hypersensitivity, and Nociceptive Squint in Mice.. <i>Frontiers in Pain Research</i> , 2022 , 3, 861598	1.4	0

- 3 Neuron-specific alternative RNA processing in neuroendocrine gene expression. *Biochemical Society Transactions*, **1987**, 15, 128-31 5.1
- 2 Receptor activity modifying protein-1 (RAMP1) overexpression selectively enhances calcitonin gene-related peptide-induced vasodilation. *FASEB Journal*, **2008**, 22, 1151.3 0.9
- 1 Potential role of distal regulatory elements in ubiquitous induction of the calcitonin/calcitonin gene-related peptide (CALCA) gene in sepsis. *FASEB Journal*, **2009**, 23, 660.9 0.9