

Brian M Davis

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.

103
papers

5,112
citations

42
h-index

69
g-index

107
ext. papers

5,839
ext. citations

6.6
avg, IF

5.41
L-index

#	Paper	IF	Citations
103	Production of dissociated sensory neuron cultures and considerations for their use in studying neuronal function and plasticity. <i>Nature Protocols</i> , 2007 , 2, 152-60	18.8	294
102	Nociceptors lacking TRPV1 and TRPV2 have normal heat responses. <i>Journal of Neuroscience</i> , 2004 , 24, 6410-5	6.6	221
101	Glial cell line-derived neurotrophic factor family members sensitize nociceptors in vitro and produce thermal hyperalgesia in vivo. <i>Journal of Neuroscience</i> , 2006 , 26, 8588-99	6.6	203
100	Glial cell line-derived neurotrophic factor is a survival factor for isolectin B4-positive, but not vanilloid receptor 1-positive, neurons in the mouse. <i>Journal of Neuroscience</i> , 2002 , 22, 4057-65	6.6	188
99	Pain and inflammatory bowel disease. <i>Inflammatory Bowel Diseases</i> , 2009 , 15, 778-88	4.5	170
98	Neurotrophins, nociceptors, and pain. <i>Microscopy Research and Technique</i> , 1999 , 45, 252-61	2.8	148
97	Ablation of sensory neurons in a genetic model of pancreatic ductal adenocarcinoma slows initiation and progression of cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3078-83	11.5	142
96	Convergence of bladder and colon sensory innervation occurs at the primary afferent level. <i>Pain</i> , 2007 , 128, 235-243	8	135
95	Artemin overexpression in skin enhances expression of TRPV1 and TRPA1 in cutaneous sensory neurons and leads to behavioral sensitivity to heat and cold. <i>Journal of Neuroscience</i> , 2006 , 26, 8578-87	6.6	131
94	TRPV1 unlike TRPV2 is restricted to a subset of mechanically insensitive cutaneous nociceptors responding to heat. <i>Journal of Pain</i> , 2008 , 9, 298-308	5.2	125
93	TRPV1 and TRPA1 antagonists prevent the transition of acute to chronic inflammation and pain in chronic pancreatitis. <i>Journal of Neuroscience</i> , 2013 , 33, 5603-11	6.6	121
92	TRPV1 and TRPA1 function and modulation are target tissue dependent. <i>Journal of Neuroscience</i> , 2011 , 31, 10516-28	6.6	110
91	Cutaneous TRPV1 Neurons Trigger Protective Innate Type 17 Anticipatory Immunity. <i>Cell</i> , 2019 , 178, 919-932.e14	56.2	107
90	Synergistic role of TRPV1 and TRPA1 in pancreatic pain and inflammation. <i>Gastroenterology</i> , 2011 , 140, 1283-1291.e1-2	13.3	107
89	Glial cell-line-derived neurotrophic factor expression in skin alters the mechanical sensitivity of cutaneous nociceptors. <i>Journal of Neuroscience</i> , 2006 , 26, 2981-90	6.6	99
88	The distribution of enkephalinlike immunoreactivity in the telencephalon of the adult and developing domestic chicken. <i>Journal of Comparative Neurology</i> , 1984 , 228, 245-62	3.4	95
87	Keratinocytes can modulate and directly initiate nociceptive responses. <i>ELife</i> , 2015 , 4,	8.9	94

86	Differences in spinal distribution and neurochemical phenotype of colonic afferents in mouse and rat. <i>Journal of Comparative Neurology</i> , 2006 , 494, 246-59	3.4	93
85	Overexpression of brain-derived neurotrophic factor enhances sensory innervation and selectively increases neuron number. <i>Journal of Neuroscience</i> , 1999 , 19, 5919-31	6.6	92
84	Neuroplastic changes occur early in the development of pancreatic ductal adenocarcinoma. <i>Cancer Research</i> , 2014 , 74, 1718-27	10.1	90
83	Overexpression of nerve growth factor in transgenic mice induces novel sympathetic projections to primary sensory neurons. <i>Journal of Comparative Neurology</i> , 1994 , 349, 464-74	3.4	85
82	Differential effects of ASIC3 and TRPV1 deletion on gastroesophageal sensation in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, G130-8	5.1	84
81	Transient receptor potential vanilloid 1-immunopositive neurons in the mouse are more prevalent within colon afferents compared to skin and muscle afferents. <i>Neuroscience</i> , 2006 , 140, 247-57	3.9	81
80	Overexpression of nerve growth factor in skin causes preferential increases among innervation to specific sensory targets. <i>Journal of Comparative Neurology</i> , 1997 , 387, 489-506	3.4	75
79	Time course of salamander spinal cord regeneration and recovery of swimming: HRP retrograde pathway tracing and kinematic analysis. <i>Experimental Neurology</i> , 1990 , 108, 198-213	5.7	68
78	Development, plasticity and modulation of visceral afferents. <i>Brain Research Reviews</i> , 2009 , 60, 171-86		67
77	Thermal nociception and TRPV1 function are attenuated in mice lacking the nucleotide receptor P2Y2. <i>Pain</i> , 2008 , 138, 484-496	8	67
76	Epithelial overexpression of BDNF or NT4 disrupts targeting of taste neurons that innervate the anterior tongue. <i>Developmental Biology</i> , 2001 , 232, 508-21	3.1	65
75	Pain in chronic pancreatitis and pancreatic cancer. <i>Gastroenterology Clinics of North America</i> , 2007 , 36, 335-64, ix	4.4	61
74	TRPA1 mediates bladder hyperalgesia in a mouse model of cystitis. <i>Pain</i> , 2014 , 155, 1280-1287	8	59
73	Overexpression of nerve growth factor in skin increases sensory neuron size and modulates Trk receptor expression. <i>European Journal of Neuroscience</i> , 1997 , 9, 1574-85	3.5	59
72	Gi-DREADD Expression in Peripheral Nerves Produces Ligand-Dependent Analgesia, as well as Ligand-Independent Functional Changes in Sensory Neurons. <i>Journal of Neuroscience</i> , 2016 , 36, 10769-10781	6.6	58
71	Neonatal colon insult alters growth factor expression and TRPA1 responses in adult mice. <i>Pain</i> , 2010 , 151, 540-549	8	58
70	Can Stopping Nerves, Stop Cancer?. <i>Trends in Neurosciences</i> , 2016 , 39, 880-889	13.3	57
69	Distribution and neurochemical identification of pancreatic afferents in the mouse. <i>Journal of Comparative Neurology</i> , 2008 , 509, 42-52	3.4	57

68	Kappa Opioid Receptor Distribution and Function in Primary Afferents. <i>Neuron</i> , 2018 , 99, 1274-1288.e6	13.9	57
67	TRPV1 expression defines functionally distinct pelvic colon afferents. <i>Journal of Neuroscience</i> , 2009 , 29, 743-52	6.6	56
66	Reduced thermal sensitivity and Nav1.8 and TRPV1 channel expression in sensory neurons of aged mice. <i>Neurobiology of Aging</i> , 2006 , 27, 895-903	5.6	55
65	Mechanism, assessment and management of pain in chronic pancreatitis: Recommendations of a multidisciplinary study group. <i>Pancreatology</i> , 2016 , 16, 83-94	3.8	53
64	Sodium channel expression in NGF-overexpressing transgenic mice. <i>Journal of Neuroscience Research</i> , 1999 , 57, 39-47	4.4	53
63	Origin of spinal cord axons in the lizard regenerated tail: supernormal projections from local spinal neurons. <i>Journal of Comparative Neurology</i> , 1990 , 293, 208-22	3.4	53
62	Overexpression of GDNF induces and maintains hyperinnervation of muscle fibers and multiple end-plate formation. <i>Experimental Neurology</i> , 2001 , 171, 342-50	5.7	45
61	Phenotypic characterization of gastric sensory neurons in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2006 , 291, G987-97	5.1	41
60	Dichotomizing axons in spinal and vagal afferents of the mouse stomach. <i>Digestive Diseases and Sciences</i> , 2008 , 53, 194-203	4	38
59	Overexpression of artemin in the tongue increases expression of TRPV1 and TRPA1 in trigeminal afferents and causes oral sensitivity to capsaicin and mustard oil. <i>Brain Research</i> , 2008 , 1230, 80-90	3.7	35
58	The skin as a neurotrophic organ. <i>Neuroscientist</i> , 2007 , 13, 371-82	7.6	34
57	Overexpression of NGF or GDNF alters transcriptional plasticity evoked by inflammation. <i>Pain</i> , 2005 , 113, 277-284	8	34
56	Effects of NGF overexpression on anatomical and physiological properties of sympathetic postganglionic neurons. <i>Brain Research</i> , 1996 , 724, 47-54	3.7	32
55	Cutaneous C-polymodal fibers lacking TRPV1 are sensitized to heat following inflammation, but fail to drive heat hyperalgesia in the absence of TPV1 containing C-heat fibers. <i>Molecular Pain</i> , 2010 , 6, 58	3.4	31
54	Extrinsic Primary Afferent Neurons Link Visceral Pain to Colon Motility Through a Spinal Reflex in Mice. <i>Gastroenterology</i> , 2019 , 157, 522-536.e2	13.3	30
53	Artemin Immunotherapy Is Effective in Preventing and Reversing Cystitis-Induced Bladder Hyperalgesia via TRPA1 Regulation. <i>Journal of Pain</i> , 2015 , 16, 628-36	5.2	29
52	Genetic control of the segregation of pain-related sensory neurons innervating the cutaneous versus deep tissues. <i>Cell Reports</i> , 2013 , 5, 1353-64	10.6	28
51	Over-expression of NGF in skin causes formation of novel sympathetic projections to trkA-positive sensory neurons. <i>NeuroReport</i> , 1998 , 9, 1103-7	1.7	28

50	Phenotypic switching of nonpeptidergic cutaneous sensory neurons following peripheral nerve injury. <i>PLoS ONE</i> , 2011 , 6, e28908	3.7	27
49	Overexpression of neurotrophin 4 in skin enhances myelinated sensory endings but does not influence sensory neuron number. <i>Journal of Comparative Neurology</i> , 2006 , 498, 455-65	3.4	27
48	NT3 expressed in skin causes enhancement of SA1 sensory neurons that leads to postnatal enhancement of Merkel cells. <i>Journal of Comparative Neurology</i> , 2004 , 471, 352-60	3.4	25
47	Transgenic mice possessing increased numbers of nociceptors do not exhibit increased behavioral sensitivity in models of inflammatory and neuropathic pain. <i>Pain</i> , 2003 , 106, 491-500	8	25
46	Systemic Depletion of Nerve Growth Factor Inhibits Disease Progression in a Genetically Engineered Model of Pancreatic Ductal Adenocarcinoma. <i>Pancreas</i> , 2018 , 47, 856-863	2.6	25
45	Artemin growth factor increases nicotinic cholinergic receptor subunit expression and activity in nociceptive sensory neurons. <i>Molecular Pain</i> , 2014 , 10, 31	3.4	24
44	Profound alteration in cutaneous primary afferent activity produced by inflammatory mediators. <i>ELife</i> , 2016 , 5,	8.9	24
43	Maturation of cutaneous sensory neurons from normal and NGF-overexpressing mice. <i>Journal of Neurophysiology</i> , 2000 , 83, 1722-32	3.2	22
42	Distribution of preproenkephalin mRNA in the chicken and pigeon telencephalon. <i>Journal of Comparative Neurology</i> , 1994 , 348, 419-32	3.4	22
41	Overexpression of nerve growth factor in epidermis disrupts the distribution and properties of sympathetic innervation in footpads. <i>Journal of Comparative Neurology</i> , 1998 , 393, 231-43	3.4	21
40	Overexpression of nerve growth factor in epidermis of transgenic mice preserves excess sensory neurons but does not alter the somatotopic organization of cutaneous nerve projections. <i>Neuroscience Letters</i> , 1996 , 211, 68-72	3.3	21
39	Optogenetic Activation of Colon Epithelium of the Mouse Produces High-Frequency Bursting in Extrinsic Colon Afferents and Engages Visceromotor Responses. <i>Journal of Neuroscience</i> , 2018 , 38, 5788-5798	6.6	21
38	Neurturin overexpression in skin enhances expression of TRPM8 in cutaneous sensory neurons and leads to behavioral sensitivity to cool and menthol. <i>Journal of Neuroscience</i> , 2013 , 33, 2060-70	6.6	19
37	Nonpeptidergic neurons suppress mast cells via glutamate to maintain skin homeostasis. <i>Cell</i> , 2021 , 184, 2151-2166.e16	56.2	19
36	Level of p75 receptor expression in sensory ganglia is modulated by NGF level in the target tissue. <i>Journal of Neurobiology</i> , 1998 , 35, 258-70		18
35	Levels of nerve growth factor and neurotrophin-3 are affected differentially by the presence of p75 in sympathetic neurons in vivo. <i>Journal of Comparative Neurology</i> , 2000 , 424, 99-110	3.4	18
34	Excess nerve growth factor in the periphery does not obscure development of whisker-related patterns in the rodent brain. <i>Journal of Comparative Neurology</i> , 1996 , 374, 41-51	3.4	17
33	Altered inflammatory gene expression underlies increased susceptibility to murine postoperative ileus with advancing age. <i>American Journal of Physiology - Renal Physiology</i> , 2007 , 292, G1650-9	5.1	16

32	Rescue of NGF-deficient mice I: transgenic expression of NGF in skin rescues mice lacking endogenous NGF. <i>Molecular Brain Research</i> , 2004 , 122, 116-25		16
31	Cutaneous overexpression of neurotrophin-3 (NT3) selectively restores sensory innervation in NT3 gene knockout mice. <i>Journal of Neurobiology</i> , 2000 , 43, 40-9		16
30	Animal Models: Challenges and Opportunities to Determine Optimal Experimental Models of Pancreatitis and Pancreatic Cancer. <i>Pancreas</i> , 2019 , 48, 759-779	2.6	14
29	scRNA-Seq Reveals New Enteric Nervous System Roles for GDNF, NRTN, and TBX3. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021 , 11, 1548-1592.e1	7.9	14
28	Differential Regulation of Bladder Pain and Voiding Function by Sensory Afferent Populations Revealed by Selective Optogenetic Activation. <i>Frontiers in Integrative Neuroscience</i> , 2018 , 12, 5	3.2	13
27	Sympathetic Input to Multiple Cell Types in Mouse and Human Colon Produces Region-Specific Responses. <i>Gastroenterology</i> , 2021 , 160, 1208-1223.e4	13.3	13
26	Epithelial-Neuronal Communication in the Colon: Implications for Visceral Pain. <i>Trends in Neurosciences</i> , 2020 , 43, 170-181	13.3	12
25	Abdominal pain and the neurotrophic system in ulcerative colitis. <i>Inflammatory Bowel Diseases</i> , 2014 , 20, 2330-9	4.5	11
24	Galanin gene expression in the hypothalamopituitary axis of the ames dwarf mouse. <i>Molecular and Cellular Neurosciences</i> , 1993 , 4, 298-303	4.8	11
23	Skin-derived nerve growth factor blocks programmed cell death in the trigeminal ganglia but does not enhance neuron proliferation. <i>Mechanisms of Development</i> , 2001 , 109, 205-14	1.7	10
22	Clinically Actionable Strategies for Studying Neural Influences in Cancer. <i>Cancer Cell</i> , 2020 , 38, 11-14	24.3	9
21	Excess target-derived neurotrophin-3 alters the segmental innervation of the skin. <i>European Journal of Neuroscience</i> , 2001 , 14, 411-8	3.5	9
20	Postnatal roles of glial cell line-derived neurotrophic factor family members in nociceptors plasticity. <i>Acta Physiologica Sinica</i> , 2008 , 60, 571-8	1.3	9
19	Unique Molecular Characteristics of Visceral Afferents Arising from Different Levels of the Neuraxis: Location of Afferent Somata Predicts Function and Stimulus Detection Modalities. <i>Journal of Neuroscience</i> , 2020 , 40, 7216-7228	6.6	9
18	Effect of peripheral nerve lesion and lumbar sympathectomy on peptide regulation in dorsal root ganglia in the NGF-overexpressing mouse. <i>Experimental Neurology</i> , 2001 , 167, 290-303	5.7	8
17	Rescue of NGF-deficient mice II: basal forebrain cholinergic projections require NGF for target innervation but not guidance. <i>Molecular Brain Research</i> , 2004 , 124, 1-11		7
16	Future directions in preclinical and translational cancer neuroscience research. <i>Nature Cancer</i> , 2021 , 1, 1027-1031	15.4	7
15	Aging bodies, aging emotions: Interoceptive differences in emotion representations and self-reports across adulthood. <i>Emotion</i> , 2021 , 21, 227-246	4.1	7

14	Cutaneous neurturin overexpression alters mechanical, thermal, and cold responsiveness in physiologically identified primary afferents. <i>Journal of Neurophysiology</i> , 2017 , 117, 1258-1265	3.2	5
13	Posthatching development of preproenkephalin mRNA-expressing cell populations in the pigeon telencephalon. <i>Developmental Brain Research</i> , 1995 , 84, 233-44		4
12	Author response: Keratinocytes can modulate and directly initiate nociceptive responses 2015 ,		3
11	Optogenetic inhibition of the colon epithelium reduces hypersensitivity in a mouse model of inflammatory bowel disease. <i>Pain</i> , 2021 , 162, 1126-1134	8	3
10	Unique Neural Circuit Connectivity of Mouse Proximal, Middle, and Distal Colon Defines Regional Colonic Motor Patterns. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021 ,	7.9	3
9	Heat detection without TRPV1. <i>Journal of Pain</i> , 2008 , 9, 666	5.2	2
8	Synaptic Components, Function and Modulation Characterized by GCaMP6f Ca Imaging in Mouse Cholinergic Myenteric Ganglion Neurons. <i>Frontiers in Physiology</i> , 2021 , 12, 652714	4.6	2
7	Sodium channel expression in NGF-overexpressing transgenic mice 1999 , 57, 39		2
6	Extracellular ATP released from <i>Candida albicans</i> activates non-peptidergic neurons to augment host defense		1
5	Optogenetic activation of the distal colon epithelium engages enteric nervous system circuits to initiate motility patterns. <i>American Journal of Physiology - Renal Physiology</i> , 2021 , 321, G426-G435	5.1	1
4	Safety and efficacy of human serum albumin treatment in patients with cirrhotic ascites undergoing paracentesis: A systematic review and meta-analysis. <i>Annals of Hepatology</i> , 2021 , 100547	3.1	0
3	The Role of Neurogenic Inflammation in Pancreatitis 2018 , 173-177		
2	Gamma-Irradiated Cornea in Combat-related Ocular Trauma. <i>Military Medicine</i> , 2021 , 186, e840-e842	1.3	
1	Optogenetic Modulation of the Visceromotor Response to Reveal Visceral Pain Mechanisms. <i>Neuromethods</i> , 2022 , 321-332	0.4	