

# Robert W Gereau

## List of Publications by Year in descending order

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Version: 2024-02-01

112  
papers

12,252  
citations

26630

56  
h-index

26613

107  
g-index

131  
all docs

131  
docs citations

131  
times ranked

12599  
citing authors

#	ARTICLE	IF	CITATIONS
1	IL-33 signaling in sensory neurons promotes dry skin itch. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 149, 1473-1480.e6.	2.9	44
2	Spatial transcriptomics of dorsal root ganglia identifies molecular signatures of human nociceptors. <i>Science Translational Medicine</i> , 2022, 14, eabj8186.	12.4	164
3	Profiling the molecular signature of satellite glial cells at the single cell level reveals high similarities between rodents and humans. <i>Pain</i> , 2022, 163, 2348-2364.	4.2	27
4	The cannabinoid agonist CB-13 produces peripherally mediated analgesia in mice but elicits tolerance and signs of central nervous system activity with repeated dosing. <i>Pain</i> , 2022, 163, 1603-1621.	4.2	4
5	Extended amygdala-parabrachial circuits alter threat assessment and regulate feeding. <i>Science Advances</i> , 2021, 7, .	10.3	36
6	Human cells and networks of pain: Transforming pain target identification and therapeutic development. <i>Neuron</i> , 2021, 109, 1426-1429.	8.1	47
7	Wireless multilateral devices for optogenetic studies of individual and social behaviors. <i>Nature Neuroscience</i> , 2021, 24, 1035-1045.	14.8	98
8	Surgical implantation of wireless, battery-free optoelectronic epidural implants for optogenetic manipulation of spinal cord circuits in mice. <i>Nature Protocols</i> , 2021, 16, 3072-3088.	12.0	19
9	Cellular, circuit and transcriptional framework for modulation of itch in the central amygdala. <i>ELife</i> , 2021, 10, .	6.0	22
10	A photoswitchable GPCR-based opsin for presynaptic inhibition. <i>Neuron</i> , 2021, 109, 1791-1809.e11.	8.1	62
11	A Potential Role for Stress-Induced Microbial Alterations in IgA-Associated Irritable Bowel Syndrome with Diarrhea. <i>Cell Reports Medicine</i> , 2020, 1, 100124.	6.5	24
12	Pharmacological target-focused transcriptomic analysis of native vs cultured human and mouse dorsal root ganglia. <i>Pain</i> , 2020, 161, 1497-1517.	4.2	67
13	A Paranigral VTA Nociceptin Circuit that Constrains Motivation for Reward. <i>Cell</i> , 2019, 178, 653-671.e19.	28.9	76
14	Myelinating Schwann cells ensheath multiple axons in the absence of E3 ligase component Fbxw7. <i>Nature Communications</i> , 2019, 10, 2976.	12.8	39
15	Battery-free, fully implantable optofluidic cuff system for wireless optogenetic and pharmacological neuromodulation of peripheral nerves. <i>Science Advances</i> , 2019, 5, eaaw5296.	10.3	127
16	Cell type-specific modulation of sensory and affective components of itch in the periaqueductal gray. <i>Nature Communications</i> , 2019, 10, 4356.	12.8	51
17	Wireless, battery-free optoelectronic systems as subdermal implants for local tissue oximetry. <i>Science Advances</i> , 2019, 5, eaaw0873.	10.3	116
18	Pain-Induced Negative Affect Is Mediated via Recruitment of The Nucleus Accumbens Kappa Opioid System. <i>Neuron</i> , 2019, 102, 564-573.e6.	8.1	139

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19	A wireless closed-loop system for optogenetic peripheral neuromodulation. <i>Nature</i> , 2019, 565, 361-365.	27.8	358
20	Biodegradable Monocrystalline Silicon Photovoltaic Microcells as Power Supplies for Transient Biomedical Implants. <i>Advanced Energy Materials</i> , 2018, 8, 1703035.	19.5	98
21	Miniaturized, Battery-Free Optofluidic Systems with Potential for Wireless Pharmacology and Optogenetics. <i>Small</i> , 2018, 14, 1702479.	10.0	91
22	A bright future? Optogenetics in the periphery for pain research and therapy. <i>Pain</i> , 2018, 159, S65-S73.	4.2	23
23	Angiotensin II Triggers Peripheral Macrophage-to-Sensory Neuron Redox Crosstalk to Elicit Pain. <i>Journal of Neuroscience</i> , 2018, 38, 7032-7057.	3.6	92
24	Natural Wax for Transient Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1801819.	14.9	90
25	Optogenetic Induction of Colonic Motility in Mice. <i>Gastroenterology</i> , 2018, 155, 514-528.e6.	1.3	62
26	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.	2.1	20
27	Macrophage angiotensin II type 2 receptor triggers neuropathic pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8057-E8066.	7.1	107
28	Metabotropic Glutamate Receptor 2/3 (mGluR2/3) Activation Suppresses TRPV1 Sensitization in Mouse, But Not Human, Sensory Neurons. <i>ENeuro</i> , 2018, 5, ENEURO.0412-17.2018.	1.9	35
29	Deletion of Tsc2 in Nociceptors Reduces Target Innervation, Ion Channel Expression, and Sensitivity to Heat. <i>ENeuro</i> , 2018, 5, ENEURO.0436-17.2018.	1.9	11
30	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017, 93, 509-521.e3.	8.1	323
31	Anti-vascular endothelial growth factor treatment decreases bladder pain in cyclophosphamide cystitis: a Multidisciplinary Approach to the Study of Chronic Pelvic Pain (MAPP) Research Network animal model study. <i>BJU International</i> , 2017, 120, 576-583.	2.5	20
32	Characterization of Whole Body Pain in Urological Chronic Pelvic Pain Syndrome at Baseline: A MAPP Research Network Study. <i>Journal of Urology</i> , 2017, 198, 622-631.	0.4	73
33	Inflammation and nerve injury minimally affect mouse voluntary behaviors proposed as indicators of pain. <i>Neurobiology of Pain (Cambridge, Mass)</i> , 2017, 2, 1-12.	2.5	59
34	Sensory Neurons Co-opt Classical Immune Signaling Pathways to Mediate Chronic Itch. <i>Cell</i> , 2017, 171, 217-228.e13.	28.9	692
35	Optogenetic silencing of nociceptive primary afferents reduces evoked and ongoing bladder pain. <i>Scientific Reports</i> , 2017, 7, 15865.	3.3	49
36	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. <i>Pain</i> , 2017, 158, 2108-2116.	4.2	93

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37	Divergent Modulation of Nociception by Glutamatergic and GABAergic Neuronal Subpopulations in the Periaqueductal Gray. <i>ENeuro</i> , 2017, 4, ENEURO.0129-16.2017.	1.9	117
38	Stretchable multichannel antennas in soft wireless optoelectronic implants for optogenetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8169-E8177.	7.1	111
39	Surgical extraction of human dorsal root ganglia from organ donors and preparation of primary sensory neuron cultures. <i>Nature Protocols</i> , 2016, 11, 1877-1888.	12.0	79
40	Spotlight on pain: optogenetic approaches for interrogating somatosensory circuits. <i>Pain</i> , 2016, 157, 2424-2433.	4.2	31
41	Postinflammatory hyperpigmentation after human cold pain testing. <i>Pain Reports</i> , 2016, 1, e569.	2.7	0
42	Group II mGluRs suppress hyperexcitability in mouse and human nociceptors. <i>Pain</i> , 2016, 157, 2081-2088.	4.2	49
43	A Simple and Inexpensive Method for Determining Cold Sensitivity and Adaptation in Mice. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	21
44	Voluntary Exercise Training: Analysis of Mice in Uninjured, Inflammatory, and Nerve-Injured Pain States. <i>PLoS ONE</i> , 2015, 10, e0133191.	2.5	35
45	Protein Kinase C $\delta$ Mediates Histamine-Evoked Itch and Responses in Pruriceptors. <i>Molecular Pain</i> , 2015, 11, 1744-8069-11-1.	2.1	39
46	Animal Models of Urologic Chronic Pelvic Pain Syndromes: Findings From the Multidisciplinary Approach to the Study of Chronic Pelvic Pain Research Network. <i>Urology</i> , 2015, 85, 1454-1465.	1.0	40
47	ERK2 Alone Drives Inflammatory Pain But Cooperates with ERK1 in Sensory Neuron Survival. <i>Journal of Neuroscience</i> , 2015, 35, 9491-9507.	3.6	33
48	Spatiotemporal Control of Opioid Signaling and Behavior. <i>Neuron</i> , 2015, 86, 923-935.	8.1	131
49	Enhanced Nonpeptidergic Intraepidermal Fiber Density and an Expanded Subset of Chloroquine-Responsive Trigeminal Neurons in a Mouse Model of Dry Skin Itch. <i>Journal of Pain</i> , 2015, 16, 346-356.	1.4	31
50	Soft, stretchable, fully implantable miniaturized optoelectronic systems for wireless optogenetics. <i>Nature Biotechnology</i> , 2015, 33, 1280-1286.	17.5	658
51	HDAC and HAT Inhibitors Differently Affect Analgesia Mediated by Group II Metabotropic Glutamate Receptors. <i>Molecular Pain</i> , 2014, 10, 1744-8069-10-68.	2.1	43
52	A technique to measure cold adaptation in freely behaving mice. <i>Journal of Neuroscience Methods</i> , 2014, 236, 86-91.	2.5	14
53	Segmental Hyperalgesia to Mechanical Stimulus in Interstitial Cystitis/Bladder Pain Syndrome: Evidence of Central Sensitization. <i>Journal of Urology</i> , 2014, 191, 1294-1299.	0.4	63
54	A Pain Research Agenda for the 21st Century. <i>Journal of Pain</i> , 2014, 15, 1203-1214.	1.4	145

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55	A dynamic set point for thermal adaptation requires phospholipase C-mediated regulation of TRPM8 in vivo. <i>Pain</i> , 2014, 155, 2124-2133.	4.2	19
56	Human sensory neurons: Membrane properties and sensitization by inflammatory mediators. <i>Pain</i> , 2014, 155, 1861-1870.	4.2	137
57	The Overlap and Distinction of Self-Reported Symptoms between Interstitial Cystitis/Bladder Pain Syndrome and Overactive Bladder: A Questionnaire Based Analysis. <i>Journal of Urology</i> , 2014, 192, 1679-1686.	0.4	35
58	Assessment of Pain and Itch Behavior in a Mouse Model of Neurofibromatosis Type 1. <i>Journal of Pain</i> , 2013, 14, 628-637.	1.4	30
59	Protamine Sulfate Induced Bladder Injury Protects from Distention Induced Bladder Pain. <i>Journal of Urology</i> , 2013, 189, 343-351.	0.4	31
60	Dopamine-Dependent Compensation Maintains Motor Behavior in Mice with Developmental Ablation of Dopaminergic Neurons. <i>Journal of Neuroscience</i> , 2013, 33, 17095-17107.	3.6	41
61	Reproducibility of the heat/capsaicin skin sensitization model in healthy volunteers. <i>Journal of Pain Research</i> , 2013, 6, 771.	2.0	30
62	Central Amygdala Metabotropic Glutamate Receptor 5 in the Modulation of Visceral Pain. <i>Journal of Neuroscience</i> , 2012, 32, 14217-14226.	3.6	102
63	Metabotropic Glutamate Receptor 5 (mGluR5) Regulates Bladder Nociception. <i>Molecular Pain</i> , 2012, 8, 1744-8069-8-20.	2.1	28
64	A Novel Behavioral Assay for Measuring Cold Sensation in Mice. <i>PLoS ONE</i> , 2012, 7, e39765.	2.5	171
65	Metabotropic Glutamate Receptors as Targets for Analgesia: Antagonism, Activation, and Allosteric Modulation. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 1681-1688.	1.6	40
66	Activation of spinal extracellular signal-regulated kinases (ERK) 1/2 is associated with the development of visceral hyperalgesia of the bladder. <i>Pain</i> , 2011, 152, 2117-2124.	4.2	58
67	mGlu2 Metabotropic Glutamate Receptors Restrain Inflammatory Pain and Mediate the Analgesic Activity of Dual mGlu2/mGlu3 Receptor Agonists. <i>Molecular Pain</i> , 2011, 7, 1744-8069-7-6.	2.1	42
68	Episodic and chronic migraineurs are hypersensitive to thermal stimuli between migraine attacks. <i>Cephalalgia</i> , 2011, 31, 6-12.	3.9	117
69	Headache outcomes following treatment of unruptured intracranial aneurysms: A prospective analysis. <i>Cephalalgia</i> , 2011, 31, 1082-1089.	3.9	42
70	Metabotropic glutamate receptor 5 regulates excitability and Kv4.2-containing K <sup>+</sup> channels primarily in excitatory neurons of the spinal dorsal horn. <i>Journal of Neurophysiology</i> , 2011, 105, 3010-3021.	1.8	38
71	Metabotropic Glutamate Receptor 5 Antagonism with Fenobam. <i>Anesthesiology</i> , 2011, 115, 1239-1250.	2.5	21
72	Isozyme-specific Effects of Protein Kinase C in Pain Modulation. <i>Anesthesiology</i> , 2011, 115, 1261-1270.	2.5	31

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73	Activation of Metabotropic Glutamate Receptor 5 in the Amygdala Modulates Pain-Like Behavior. <i>Journal of Neuroscience</i> , 2010, 30, 8203-8213.	3.6	115
74	RET Signaling Is Required for Survival and Normal Function of Nonpeptidergic Nociceptors. <i>Journal of Neuroscience</i> , 2010, 30, 3983-3994.	3.6	80
75	Genetic Targeting of ERK1 Suggests a Predominant Role for ERK2 in Murine Pain Models. <i>Journal of Neuroscience</i> , 2010, 30, 11537-11547.	3.6	41
76	Loss of Par-1a/MARK3/C-TAK1 Kinase Leads to Reduced Adiposity, Resistance to Hepatic Steatosis, and Defective Gluconeogenesis. <i>Molecular and Cellular Biology</i> , 2010, 30, 5043-5056.	2.3	47
77	Transcriptional regulation of type-2 metabotropic glutamate receptors: an epigenetic path to novel treatments for chronic pain. <i>Trends in Pharmacological Sciences</i> , 2010, 31, 153-160.	8.7	80
78	The Effects of Tail Biopsy for Genotyping on Behavioral Responses to Nociceptive Stimuli. <i>PLoS ONE</i> , 2009, 4, e6457.	2.5	8
79	Protein Kinase C $\delta$ Is a Critical Regulator of Dopamine Transporter Trafficking and Regulates the Behavioral Response to Amphetamine in Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 328, 912-920.	2.5	82
80	The Metabotropic Glutamate Receptor Subtype 5 Antagonist Fenobam Is Analgesic and Has Improved in Vivo Selectivity Compared with the Prototypical Antagonist 2-Methyl-6-(phenylethynyl)-pyridine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 330, 834-843.	2.5	69
81	Metabotropic receptors for glutamate and GABA in pain. <i>Brain Research Reviews</i> , 2009, 60, 43-56.	9.0	176
82	MAP kinase and pain. <i>Brain Research Reviews</i> , 2009, 60, 135-148.	9.0	872
83	Metabotropic Glutamate Receptor 5 Modulates Nociceptive Plasticity via Extracellular Signal-Regulated Kinase $\alpha$ Kv4.2 Signaling in Spinal Cord Dorsal Horn Neurons. <i>Journal of Neuroscience</i> , 2007, 27, 13181-13191.	3.6	103
84	Mice Lacking Central Serotonergic Neurons Show Enhanced Inflammatory Pain and an Impaired Analgesic Response to Antidepressant Drugs. <i>Journal of Neuroscience</i> , 2007, 27, 6045-6053.	3.6	125
85	Central serotonergic neurons are differentially required for opioid analgesia but not for morphine tolerance or morphine reward. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14519-14524.	7.1	66
86	Acetyl-L-Carnitine in Neuropathic Pain. <i>CNS Drugs</i> , 2007, 21, 31-38.	5.9	52
87	Activation of the Extracellular Signal-Regulated Kinase in the Amygdala Modulates Pain Perception. <i>Journal of Neuroscience</i> , 2007, 27, 1543-1551.	3.6	201
88	Transcriptional Regulation of Metabotropic Glutamate Receptor 2/3 Expression by the NF- $\kappa$ B Pathway in Primary Dorsal Root Ganglia Neurons: A Possible Mechanism for the Analgesic Effect of L-Acetylcarnitine. <i>Molecular Pain</i> , 2006, 2, 1744-8069-2-20.	2.1	71
89	Impaired Inflammatory Pain and Thermal Hyperalgesia in Mice Expressing Neuron-Specific Dominant Negative Mitogen Activated Protein Kinase Kinase (MEK). <i>Molecular Pain</i> , 2006, 2, 1744-8069-2-2.	2.1	43
90	The Kv4.2 Potassium Channel Subunit Is Required for Pain Plasticity. <i>Neuron</i> , 2006, 50, 89-100.	8.1	223

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91	Numbing the Senses: Role of TRPA1 in Mechanical and Cold Sensation. <i>Neuron</i> , 2006, 50, 177-180.	8.1	42
92	Acute p38-Mediated Modulation of Tetrodotoxin-Resistant Sodium Channels in Mouse Sensory Neurons by Tumor Necrosis Factor- $\alpha$ . <i>Journal of Neuroscience</i> , 2006, 26, 246-255.	3.6	428
93	<i>Lmx1b</i> Is Required for Maintenance of Central Serotonergic Neurons and Mice Lacking Central Serotonergic System Exhibit Normal Locomotor Activity. <i>Journal of Neuroscience</i> , 2006, 26, 12781-12788.	3.6	184
94	Posttranslational mechanisms of peripheral sensitization. <i>Journal of Neurobiology</i> , 2004, 61, 88-106.	3.6	134
95	Inflammation persistently enhances nocifensive behaviors mediated by spinal group I mGluRs through sustained ERK activation. <i>Pain</i> , 2004, 111, 125-135.	4.2	113
96	Group II metabotropic glutamate receptors inhibit cAMP-dependent protein kinase-mediated enhancement of tetrodotoxin-resistant sodium currents in mouse dorsal root ganglion neurons. <i>Neuroscience Letters</i> , 2004, 357, 159-162.	2.1	23
97	Peripheral group II metabotropic glutamate receptors mediate endogenous anti-allodynia in inflammation. <i>Pain</i> , 2003, 106, 411-417.	4.2	74
98	Protein kinase C phosphorylation sensitizes but does not activate the capsaicin receptor transient receptor potential vanilloid 1 (TRPV1). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12480-12485.	7.1	391
99	Membrane Topology of a Metabotropic Glutamate Receptor. <i>Journal of Biological Chemistry</i> , 2003, 278, 30294-30301.	3.4	39
100	ERK Integrates PKA and PKC Signaling in Superficial Dorsal Horn Neurons. II. Modulation of Neuronal Excitability. <i>Journal of Neurophysiology</i> , 2003, 90, 1680-1688.	1.8	136
101	Synaptic Plasticity in the Amygdala in a Model of Arthritic Pain: Differential Roles of Metabotropic Glutamate Receptors 1 and 5. <i>Journal of Neuroscience</i> , 2003, 23, 52-63.	3.6	223
102	ERK Integrates PKA and PKC Signaling in Superficial Dorsal Horn Neurons. I. Modulation of A-Type K <sup>+</sup> Currents. <i>Journal of Neurophysiology</i> , 2003, 90, 1671-1679.	1.8	137
103	cAMP-Dependent Protein Kinase Regulates Desensitization of the Capsaicin Receptor (VR1) by Direct Phosphorylation. <i>Neuron</i> , 2002, 35, 721-731.	8.1	500
104	Modulation of Presynaptic Calcium Transients by Metabotropic Glutamate Receptor Activation: A Differential Role in Acute Depression of Synaptic Transmission and Long-Term Depression. <i>Journal of Neuroscience</i> , 2002, 22, 6885-6890.	3.6	95
105	Prostaglandin and Protein Kinase A-Dependent Modulation of Vanilloid Receptor Function by Metabotropic Glutamate Receptor 5: Potential Mechanism for Thermal Hyperalgesia. <i>Journal of Neuroscience</i> , 2002, 22, 7444-7452.	3.6	172
106	Peripheral Group II Metabotropic Glutamate Receptors (mGluR2/3) Regulate Prostaglandin E <sub>2</sub> -Mediated Sensitization of Capsaicin Responses and Thermal Nociception. <i>Journal of Neuroscience</i> , 2002, 22, 6388-6393.	3.6	84
107	Metabotropic Glutamate Receptor Subtypes 1 and 5 Are Activators of Extracellular Signal-Regulated Kinase Signaling Required for Inflammatory Pain in Mice. <i>Journal of Neuroscience</i> , 2001, 21, 3771-3779.	3.6	358
108	Role of Protein Kinase C Phosphorylation in Rapid Desensitization of Metabotropic Glutamate Receptor 5. <i>Neuron</i> , 1998, 20, 143-151.	8.1	179

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109	Effects of Ethanol and Anesthetics on Type 1 and 5 Metabotropic Glutamate Receptors Expressed in <i>Xenopus laevis</i> Oocytes. <i>Molecular Pharmacology</i> , 1998, 53, 148-156.	2.3	112
110	Identification of Amino Acid Residues that Control Functional Behavior in GluR5 and GluR6 Kainate Receptors. <i>Neuron</i> , 1997, 19, 913-926.	8.1	116
111	Potential of cAMP responses by metabotropic glutamate receptors depresses excitatory synaptic transmission by a kinase-independent mechanism. <i>Neuron</i> , 1994, 12, 1121-1129.	8.1	73
112	Effect of progesterone on serotonin turnover in rats primed with estrogen implants into the ventromedial hypothalamus. <i>Brain Research Bulletin</i> , 1993, 32, 293-300.	3.0	29