# Tony L Yaksh

#### List of Publications by Citations

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62 116 14,744 232 h-index g-index citations papers 6.54 258 15,942 5.4 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
232	Chronic catheterization of the spinal subarachnoid space. <i>Physiology and Behavior</i> , <b>1976</b> , 17, 1031-6	3.5	1991
231	Behavioral and autonomic correlates of the tactile evoked allodynia produced by spinal glycine inhibition: effects of modulatory receptor systems and excitatory amino acid antagonists. <i>Pain</i> , <b>1989</b> , 37, 111-123	8	519
230	Pharmacology of spinal adrenergic systems which modulate spinal nociceptive processing. <i>Pharmacology Biochemistry and Behavior</i> , <b>1985</b> , 22, 845-58	3.9	497
229	Upregulation of dorsal root ganglion (alpha)2(delta) calcium channel subunit and its correlation with allodynia in spinal nerve-injured rats. <i>Journal of Neuroscience</i> , <b>2001</b> , 21, 1868-75	6.6	491
228	Spinal opiate analgesia: characteristics and principles of action. <i>Pain</i> , <b>1981</b> , 11, 293-346	8	447
227	Activation of p38 mitogen-activated protein kinase in spinal microglia is a critical link in inflammation-induced spinal pain processing. <i>Journal of Neurochemistry</i> , <b>2003</b> , 86, 1534-44	6	326
226	Spinal nitric oxide synthesis inhibition blocks NMDA-induced thermal hyperalgesia and produces antinociception in the formalin test in rats. <i>Pain</i> , <b>1993</b> , 54, 291-300	8	312
225	The spinal phospholipase-cyclooxygenase-prostanoid cascade in nociceptive processing. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2002</b> , 42, 553-83	17.9	255
224	Increased sensitivity of injured and adjacent uninjured rat primary sensory neurons to exogenous tumor necrosis factor-alpha after spinal nerve ligation. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 3028-38	6.6	251
223	The acute antihyperalgesic action of nonsteroidal, anti-inflammatory drugs and release of spinal prostaglandin E2 is mediated by the inhibition of constitutive spinal cyclooxygenase-2 (COX-2) but not COX-1. <i>Journal of Neuroscience</i> , <b>2001</b> , 21, 5847-53	6.6	249
222	Spinal pharmacology of thermal hyperesthesia induced by constriction injury of sciatic nerve. Excitatory amino acid antagonists. <i>Pain</i> , <b>1992</b> , 49, 121-128	8	234
221	Characterization of variables defining hindpaw withdrawal latency evoked by radiant thermal stimuli. <i>Journal of Neuroscience Methods</i> , <b>1997</b> , 76, 183-91	3	216
220	Intrathecal minocycline attenuates peripheral inflammation-induced hyperalgesia by inhibiting p38 MAPK in spinal microglia. <i>European Journal of Neuroscience</i> , <b>2005</b> , 22, 2431-40	3.5	208
219	Polyanalgesic Consensus Conference 2012: recommendations for the management of pain by intrathecal (intraspinal) drug delivery: report of an interdisciplinary expert panel. <i>Neuromodulation</i> , <b>2012</b> , 15, 436-64; discussion 464-6	3.1	186
218	Effect of continuous intrathecal infusion of omega-conopeptides, N-type calcium-channel blockers, on behavior and antinociception in the formalin and hot-plate tests in rats. <i>Pain</i> , <b>1995</b> , 60, 83-90	8	176
217	Spinal systems and pain processing: development of novel analgesic drugs with mechanistically defined models. <i>Trends in Pharmacological Sciences</i> , <b>1999</b> , 20, 329-37	13.2	175
216	Prolonged alleviation of tactile allodynia by intravenous lidocaine in neuropathic rats. <i>Anesthesiology</i> , <b>1995</b> , 83, 775-85	4.3	167

## (2011-2017)

215	The Polyanalgesic Consensus Conference (PACC): Recommendations on Intrathecal Drug Infusion Systems Best Practices and Guidelines. <i>Neuromodulation</i> , <b>2017</b> , 20, 96-132	3.1	158
214	Systemic and supraspinal, but not spinal, opiates suppress allodynia in a rat neuropathic pain model. <i>Neuroscience Letters</i> , <b>1995</b> , 199, 111-4	3.3	155
213	Stereospecific effects of a nonpeptidic NK1 selective antagonist, CP-96,345: antinociception in the absence of motor dysfunction. <i>Life Sciences</i> , <b>1991</b> , 49, 1955-63	6.8	150
212	The spinal loop dialysis catheter: characterization of use in the unanesthetized rat. <i>Journal of Neuroscience Methods</i> , <b>1995</b> , 62, 43-53	3	138
211	In vivo evidence for multiple opiate receptors mediating analgesia in the rat spinal cord. <i>Brain Research</i> , <b>1982</b> , 247, 75-83	3.7	138
210	Inflammatory masses associated with intrathecal drug infusion: a review of preclinical evidence and human data. <i>Pain Medicine</i> , <b>2002</b> , 3, 300-12	2.8	137
209	Chronically infused intrathecal morphine in dogs. <i>Anesthesiology</i> , <b>2003</b> , 99, 174-87	4.3	134
208	Spinal p38 MAP kinase is necessary for NMDA-induced spinal PGE(2) release and thermal hyperalgesia. <i>NeuroReport</i> , <b>2003</b> , 14, 1153-7	1.7	129
207	Spinal p38beta isoform mediates tissue injury-induced hyperalgesia and spinal sensitization. Journal of Neurochemistry, <b>2005</b> , 92, 1508-20	6	127
206	A brief comparison of the pathophysiology of inflammatory versus neuropathic pain. <i>Current Opinion in Anaesthesiology</i> , <b>2011</b> , 24, 400-7	2.9	126
205	An automated flinch detecting system for use in the formalin nociceptive bioassay. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 2386-402	3.7	122
204	Galmic, a nonpeptide galanin receptor agonist, affects behaviors in seizure, pain, and forced-swim tests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 10470-	<b>5</b> <sup>11.5</sup>	121
203	The effect of morphine on formalin-evoked behaviour and spinal release of excitatory amino acids and prostaglandin E2 using microdialysis in conscious rats. <i>British Journal of Pharmacology</i> , <b>1995</b> , 114, 1069-75	8.6	121
202	Localization of N-type Ca2+ channels in the rat spinal cord following chronic constrictive nerve injury. <i>Experimental Brain Research</i> , <b>2002</b> , 147, 456-63	2.3	112
201	Rapid continuous 3D printing of customizable peripheral nerve guidance conduits. <i>Materials Today</i> , <b>2018</b> , 21, 951-959	21.8	110
200	Calcium channels as therapeutic targets in neuropathic pain. <i>Journal of Pain</i> , <b>2006</b> , 7, S13-30	5.2	108
199	Characterization of time course of spinal amino acids, citrulline and PGE2 release after carrageenan/kaolin-induced knee joint inflammation: a chronic microdialysis study. <i>Pain</i> , <b>1996</b> , 67, 345-5	58	108
198	Spinal phosphinositide 3-kinase-Akt-mammalian target of rapamycin signaling cascades in inflammation-induced hyperalgesia. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 2113-24	6.6	104

197	Inhibition by spinal mu- and delta-opioid agonists of afferent-evoked substance P release. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 3651-60	6.6	104
196	Spinal TLR4 mediates the transition to a persistent mechanical hypersensitivity after the resolution of inflammation in serum-transferred arthritis. <i>Pain</i> , <b>2011</b> , 152, 2881-2891	8	102
195	Vincristine-induced allodynia in the rat. <i>Pain</i> , <b>2001</b> , 93, 69-76	8	100
194	Opioid modulation of capsaicin-evoked release of substance P from rat spinal cord in vivo. <i>Peptides</i> , <b>1989</b> , 10, 1127-31	3.8	98
193	Spinal 12-lipoxygenase-derived hepoxilin A3 contributes to inflammatory hyperalgesia via activation of TRPV1 and TRPA1 receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 6721-6	11.5	96
192	Characterization of the acute and persistent pain state present in K/BxN serum transfer arthritis. <i>Pain</i> , <b>2010</b> , 151, 394-403	8	94
191	The Polyanalgesic Consensus Conference (PACC): Recommendations for Intrathecal Drug Delivery: Guidance for Improving Safety and Mitigating Risks. <i>Neuromodulation</i> , <b>2017</b> , 20, 155-176	3.1	91
190	Transient spinal ischemia in rat: characterization of spinal cord blood flow, extracellular amino acid release, and concurrent histopathological damage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1994</b> , 14, 604-14	7:3	87
189	Polyanalgesic Consensus Conference2012: recommendations to reduce morbidity and mortality in intrathecal drug delivery in the treatment of chronic pain. <i>Neuromodulation</i> , <b>2012</b> , 15, 467-82; discussion 482	3.1	86
188	Constitutive spinal cyclooxygenase-2 participates in the initiation of tissue injury-induced hyperalgesia. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 2727-32	6.6	83
187	Retrospective consideration of the doses of morphine given intrathecally by chronic infusion in 163 patients by 19 physicians. <i>Pain</i> , <b>1987</b> , 31, 211-223	8	80
186	Toll-like receptor signaling adapter proteins govern spread of neuropathic pain and recovery following nerve injury in male mice. <i>Journal of Neuroinflammation</i> , <b>2013</b> , 10, 148	10.1	79
185	Cyclooxygenase inhibition in nerve-injury- and TNF-induced hyperalgesia in the rat. <i>Experimental Neurology</i> , <b>2004</b> , 185, 160-8	5.7	79
184	Concurrent spinal infusion of MK801 blocks spinal tolerance and dependence induced by chronic intrathecal morphine in the rat. <i>Anesthesiology</i> , <b>1996</b> , 84, 1177-88	4.3	79
183	Descending serotonergic facilitation of spinal ERK activation and pain behavior. <i>FEBS Letters</i> , <b>2006</b> , 580, 6629-34	3.8	77
182	The Effect of Intrathecal Gabapentin on Pain Behavior and Hemodynamics on the Formalin Test in the Rat. <i>Anesthesia and Analgesia</i> , <b>1999</b> , 89, 434-439	3.9	75
181	Polyanalgesic Consensus Conference2012: consensus on diagnosis, detection, and treatment of catheter-tip granulomas (inflammatory masses). <i>Neuromodulation</i> , <b>2012</b> , 15, 483-95; discussion 496	3.1	71
180	Anti-allodynic efficacy of the chi-conopeptide, Xen2174, in rats with neuropathic pain. <i>Pain</i> , <b>2005</b> , 118, 112-24	8	70

#### (2004-1998)

179	Effects of intrathecal NMDA and non-NMDA antagonists on acute thermal nociception and their interaction with morphine. <i>Anesthesiology</i> , <b>1998</b> , 89, 715-22	4.3	69	
178	Transient spinal ischemia in the rat: characterization of behavioral and histopathological consequences as a function of the duration of aortic occlusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1994</b> , 14, 526-35	7.3	69	
177	The search for novel analgesics: targets and mechanisms. F1000prime Reports, 2015, 7, 56		68	
176	Spinal phospholipase A2 in inflammatory hyperalgesia: role of group IVA cPLA2. <i>British Journal of Pharmacology</i> , <b>2005</b> , 144, 940-52	8.6	68	
175	The use of intrathecal midazolam in humans: a case study of process. <i>Anesthesia and Analgesia</i> , <b>2004</b> , 98, 1536-1545	3.9	67	
174	Mechanism of action of nonsteroidal anti-inflammatory drugs. <i>Cancer Investigation</i> , <b>1998</b> , 16, 509-27	2.1	64	
173	Systemic and intrathecal effects of a novel series of phospholipase A2 inhibitors on hyperalgesia and spinal prostaglandin E2 release. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2006</b> , 316, 466-75	4.7	63	
172	Effects of intrathecal ketamine in the neonatal rat: evaluation of apoptosis and long-term functional outcome. <i>Anesthesiology</i> , <b>2010</b> , 113, 147-59	4.3	63	
171	Antinociceptive effects of intrathecally administered human beta-endorphin in the rat and cat. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>1978</b> , 56, 754-9	2.4	62	
170	Identification of Psychoactive Degradants of Cannabidiol in Simulated Gastric and Physiological Fluid. <i>Cannabis and Cannabinoid Research</i> , <b>2016</b> , 1, 102-112	4.6	62	
169	Neuraxial analgesia in neonates and infants: a review of clinical and preclinical strategies for the development of safety and efficacy data. <i>Anesthesia and Analgesia</i> , <b>2012</b> , 115, 638-62	3.9	61	
168	Opiate pharmacology of intrathecal granulomas. <i>Anesthesiology</i> , <b>2006</b> , 105, 590-8	4.3	61	
167	Nonopioid actions of intrathecal dynorphin evoke spinal excitatory amino acid and prostaglandin E2 release mediated by cyclooxygenase-1 and -2. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 1451-8	6.6	61	
166	Therapeutic use of botulinum toxin in migraine: mechanisms of action. <i>British Journal of Pharmacology</i> , <b>2014</b> , 171, 4177-92	8.6	59	
165	Time course and role of morphine dose and concentration in intrathecal granuloma formation in dogs: a combined magnetic resonance imaging and histopathology investigation. <i>Anesthesiology</i> , <b>2006</b> , 105, 581-9	4.3	59	
164	Inhibition of spinal protein kinase C reduces nerve injury-induced tactile allodynia in neuropathic rats. <i>Neuroscience Letters</i> , <b>1999</b> , 276, 99-102	3.3	59	
163	A novel model of primary and secondary hyperalgesia after mild thermal injury in the rat. <i>Neuroscience Letters</i> , <b>1998</b> , 254, 25-8	3.3	58	
162	Galanin acts at GalR1 receptors in spinal antinociception: synergy with morphine and AP-5. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2004</b> , 308, 574-82	4.7	57	

161	Mechanical allodynia in rats is blocked by a Ca2+ permeable AMPA receptor antagonist. <i>NeuroReport</i> , <b>1999</b> , 10, 3523-6	1.7	57
160	The utility of 2-hydroxypropyl-beta-cyclodextrin as a vehicle for the intracerebral and intrathecal administration of drugs. <i>Life Sciences</i> , <b>1991</b> , 48, 623-33	6.8	57
159	Persistent hyperalgesia in the cisplatin-treated mouse as defined by threshold measures, the conditioned place preference paradigm, and changes in dorsal root ganglia activated transcription factor 3: the effects of gabapentin, ketorolac, and etanercept. <i>Anesthesia and Analgesia</i> , <b>2013</b> , 116, 224	3.9 <b>1-31</b>	55
158	In vitro prostanoid release from spinal cord following peripheral inflammation: effects of substance P, NMDA and capsaicin. <i>British Journal of Pharmacology</i> , <b>1999</b> , 126, 1333-40	8.6	55
157	Antinociceptive effect of spinally delivered prostaglandin E receptor antagonists in the formalin test on the rat. <i>Neuroscience Letters</i> , <b>1994</b> , 173, 193-6	3.3	54
156	Antinociception produced by spinal delivery of the S and R enantiomers of flurbiprofen in the formalin test. <i>European Journal of Pharmacology</i> , <b>1994</b> , 256, 205-9	5.3	50
155	Botulinum toxin B in the sensory afferent: transmitter release, spinal activation, and pain behavior. <i>Pain</i> , <b>2014</b> , 155, 674-684	8	49
154	Neuraxial morphine may trigger transient motor dysfunction after a noninjurious interval of spinal cord ischemia: a clinical and experimental study. <i>Anesthesiology</i> , <b>2003</b> , 98, 862-70	4.3	49
153	Capsaicin-evoked prostaglandin E2 release in spinal cord slices: relative effect of cyclooxygenase inhibitors. <i>European Journal of Pharmacology</i> , <b>1994</b> , 271, 293-9	5.3	49
152	Current status and future directions of botulinum neurotoxins for targeting pain processing. <i>Toxins</i> , <b>2015</b> , 7, 4519-63	4.9	46
151	Systemic TAK-242 prevents intrathecal LPS evoked hyperalgesia in male, but not female mice and prevents delayed allodynia following intraplantar formalin in both male and female mice: The role of TLR4 in the evolution of a persistent pain state. <i>Brain, Behavior, and Immunity,</i> <b>2016</b> , 56, 271-80	16.6	46
150	Inflammatory hyperalgesia induces essential bioactive lipid production in the spinal cord. <i>Journal of Neurochemistry</i> , <b>2010</b> , 114, 981-93	6	44
149	Regulation of spinal substance p release by intrathecal calcium channel blockade. <i>Anesthesiology</i> , <b>2011</b> , 115, 153-64	4.3	43
148	Nerve growth factor antibody for the treatment of osteoarthritis pain and chronic low-back pain: mechanism of action in the context of efficacy and safety. <i>Pain</i> , <b>2019</b> , 160, 2210-2220	8	41
147	Targeting toll-like receptor-4 (TLR4)-an emerging therapeutic target for persistent pain states. <i>Pain</i> , <b>2018</b> , 159, 1908-1915	8	40
146	Release of prostaglandin E(2) and nitric oxide from spinal microglia is dependent on activation of p38 mitogen-activated protein kinase. <i>Anesthesia and Analgesia</i> , <b>2010</b> , 111, 554-60	3.9	40
145	Inhibition of spinal constitutive NOS-2 by 1400W attenuates tissue injury and inflammation-induced hyperalgesia and spinal p38 activation. <i>European Journal of Neuroscience</i> , <b>2007</b> , 25, 2964-72	3.5	40
144	Pharmacology and toxicology of chronically infused epidural clonidine.HCl in dogs. <i>Fundamental and Applied Toxicology</i> , <b>1994</b> , 23, 319-35		40

## (2016-2017)

143	Current and Future Issues in the Development of Spinal Agents for the Management of Pain. Current Neuropharmacology, <b>2017</b> , 15, 232-259	7.6	38	
142	Effects of intrathecal ketorolac on human experimental pain. <i>Anesthesiology</i> , <b>2010</b> , 112, 1216-24	4.3	38	
141	Neuraxial Cytokines in Pain States. Frontiers in Immunology, 2019, 10, 3061	8.4	37	
140	Toll-like receptor signaling regulates cisplatin-induced mechanical allodynia in mice. <i>Cancer Chemotherapy and Pharmacology</i> , <b>2014</b> , 73, 25-34	3.5	37	
139	Intravenous Lidocaine. <i>Anesthesia and Analgesia</i> , <b>1997</b> , 85, 794-796	3.9	37	
138	Intrathecal catheterization and drug delivery in the rat. <i>Methods in Molecular Medicine</i> , <b>2004</b> , 99, 109-2 <sup>-7</sup>	1	37	
137	Intrathecal ketorolac in dogs and rats. <i>Toxicological Sciences</i> , <b>2004</b> , 80, 322-34	4.4	37	
136	Toxicology profile of N-methyl-D-aspartate antagonists delivered by intrathecal infusion in the canine model. <i>Anesthesiology</i> , <b>2008</b> , 108, 938-49	4.3	37	
135	Behavioral models of pain states evoked by physical injury to the peripheral nerve. <i>Neurotherapeutics</i> , <b>2009</b> , 6, 609-19	6.4	36	
134	An assessment of the antinociceptive efficacy of intrathecal and epidural contulakin-G in rats and dogs. <i>Anesthesia and Analgesia</i> , <b>2007</b> , 104, 1505-13, table of contents	3.9	36	
133	Resting and evoked spinal substance P release during chronic intrathecal morphine infusion: parallels with tolerance and dependence. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2005</b> , 314, 1362-9	4.7	36	
132	Role of spinal cyclooxygenase in human postoperative and chronic pain. <i>Anesthesiology</i> , <b>2010</b> , 112, 122	5 <sub>z</sub> β3	36	
131	Role of meningeal mast cells in intrathecal morphine-evoked granuloma formation. <i>Anesthesiology</i> , <b>2013</b> , 118, 664-78	4.3	36	
130	Validation of a preclinical spinal safety model: effects of intrathecal morphine in the neonatal rat. <i>Anesthesiology</i> , <b>2010</b> , 113, 183-99	4.3	35	
129	Spinal action of dermorphin, an extremely potent opioid peptide from frog skin. <i>Brain Research</i> , <b>1986</b> , 385, 300-4	3.7	35	
128	Intrathecal clonidine in the neonatal rat: dose-dependent analgesia and evaluation of spinal apoptosis and toxicity. <i>Anesthesia and Analgesia</i> , <b>2012</b> , 115, 450-60	3.9	34	
127	Development of a canine nociceptive thermal escape model. <i>Journal of Neuroscience Methods</i> , <b>2008</b> , 168, 88-97	3	34	
126	The Emerging Role of Spinal Dynorphin in Chronic Pain: A Therapeutic Perspective. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2016</b> , 56, 511-33	17.9	33	

125	Isolation and culture of sensory neurons from the dorsal-root ganglia of embryonic or adult rats. <i>Methods in Molecular Medicine</i> , <b>2004</b> , 99, 189-202		32
124	Safety assessment of encapsulated morphine delivered epidurally in a sustained-release multivesicular liposome preparation in dogs. <i>Drug Delivery</i> , <b>2000</b> , 7, 27-36	7	32
123	Pharmacokinetic analysis of ziconotide (SNX-111), an intrathecal N-type calcium channel blocking analgesic, delivered by bolus and infusion in the dog. <i>Neuromodulation</i> , <b>2012</b> , 15, 508-19; discussion 5	19 <sup>3.1</sup>	31
122	Continuous intrathecal administration of shortlasting mu opioids remifentanil and alfentanil in the rat. <i>Anesthesiology</i> , <b>1996</b> , 84, 926-35	4.3	31
121	Spinal botulinum neurotoxin B: effects on afferent transmitter release and nociceptive processing. <i>PLoS ONE</i> , <b>2011</b> , 6, e19126	3.7	31
120	Systematic analysis of rat 12/15-lipoxygenase enzymes reveals critical role for spinal eLOX3 hepoxilin synthase activity in inflammatory hyperalgesia. <i>FASEB Journal</i> , <b>2013</b> , 27, 1939-49	0.9	30
119	Spinal neurokinin NK1 receptor down-regulation and antinociception: effects of spinal NK1 receptor antisense oligonucleotides and NK1 receptor occupancy. <i>Journal of Neurochemistry</i> , <b>1998</b> , 70, 688-98	6	30
118	Intrathecal substance P-saporin in the dog: distribution, safety, and spinal neurokinin-1 receptor ablation. <i>Anesthesiology</i> , <b>2013</b> , 119, 1163-77	4.3	29
117	Studies on spinal opiate receptor pharmacology. III. Analgetic effects of enkephalin dimers as measured by cutaneous-thermal and visceral-chemical evoked responses. <i>Brain Research</i> , <b>1985</b> , 337, 209-15	3.7	29
116	Spinal toll-like receptor signaling and nociceptive processing: regulatory balance between TIRAP and TRIF cascades mediated by TNF and IFN[]Pain, 2013, 154, 733-742	8	27
115	The effects of intrathecal and systemic gabapentin on spinal substance P release. <i>Anesthesia and Analgesia</i> , <b>2011</b> , 112, 971-6	3.9	27
114	Thermal hyperalgesia in rat evoked by intrathecal substance P at multiple stimulus intensities reflects an increase in the gain of nociceptive processing. <i>Neuroscience Letters</i> , <b>1996</b> , 220, 93-6	3.3	27
113	Eicosanoid production in the caudate nucleus and dorsal hippocampus after forebrain ischemia: a microdialysis study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1992</b> , 12, 88-95	7.3	27
112	Temperature dependency of basal and evoked release of amino acids and calcitonin gene-related peptide from rat dorsal spinal cord. <i>Journal of Neuroscience</i> , <b>1997</b> , 17, 4406-14	6.6	26
111	Inhibition of Neuroinflammation by AIBP: Spinal Effects upon Facilitated Pain States. <i>Cell Reports</i> , <b>2018</b> , 23, 2667-2677	10.6	26
110	Distribution in Cerebrospinal Fluid, Blood, and Lymph of Epidurally Injected Morphine and Inulin in Dogs. <i>Anesthesia and Analgesia</i> , <b>1986</b> , 65, 583???592	3.9	25
109	Acetaminophen prevents hyperalgesia in central pain cascade. <i>Neuroscience Letters</i> , <b>2008</b> , 442, 50-3	3.3	24
108	Fate of the predominant phospholipid component of DepoFoam drug delivery matrix after intrathecal administration of sustained-release encapsulated cytarabine in rats. <i>Drug Delivery</i> , <b>1998</b> , 5, 143-51	7	24

## (2013-2019)

107	Botulinum toxin blocks mast cells and prevents rosacea like inflammation. <i>Journal of Dermatological Science</i> , <b>2019</b> , 93, 58-64	4.3	24
106	Spinal synthesis and release of prostanoids after peripheral injury and inflammation. <i>Advances in Experimental Medicine and Biology</i> , <b>1999</b> , 469, 401-8	3.6	24
105	Basic/Translational Development of Forthcoming Opioid- and Nonopioid-Targeted Pain Therapeutics. <i>Anesthesia and Analgesia</i> , <b>2017</b> , 125, 1714-1732	3.9	23
104	Role of spinal p38alpha and beta MAPK in inflammatory hyperalgesia and spinal COX-2 expression. <i>NeuroReport</i> , <b>2010</b> , 21, 313-7	1.7	23
103	Preclinical insights into the implementation of intrathecal midazolam: a cautionary tale. <i>Anesthesia and Analgesia</i> , <b>2004</b> , 98, 1509-1511	3.9	23
102	Spinal activity of interleukin 6 mediates myelin basic protein-induced allodynia. <i>Brain, Behavior, and Immunity</i> , <b>2016</b> , 56, 378-89	16.6	22
101	Kinetic and safety studies on intrathecally infused recombinant-methionyl human brain-derived neurotrophic factor in dogs. <i>Fundamental and Applied Toxicology</i> , <b>1997</b> , 38, 89-100		22
100	A preclinical post laminectomy rat model mimics the human post laminectomy syndrome. <i>Journal of Neuroscience Methods</i> , <b>2004</b> , 137, 283-9	3	22
99	Systemic and spinal analgesic activity of a delta-opioid-selective lanthionine enkephalin analog. Journal of Pharmacology and Experimental Therapeutics, 2003, 304, 827-32	4.7	22
98	Botulinum toxin in migraine: Role of transport in trigemino-somatic and trigemino-vascular afferents. <i>Neurobiology of Disease</i> , <b>2015</b> , 79, 111-22	7.5	21
97	Intrathecal P/Q- and R-type calcium channel blockade of spinal substance P release and c-Fos expression. <i>Neuropharmacology</i> , <b>2013</b> , 75, 1-8	5.5	21
96	Halothane inhibits T cell proliferation and interleukin-2 receptor expression in rats. <i>Immunopharmacology and Immunotoxicology</i> , <b>1996</b> , 18, 323-36	3.2	21
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