Christoph Stein

List of Publications by Year in descending order

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| | | 8755 | 12597 |
|----------|----------------|--------------|----------------|
| 205 | 18,556 | 75 | 132 |
| papers | citations | h-index | g-index |
| | | | |
| | | | |
| 232 | 232 | 232 | 8217 |
| | | | |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Agonist that activates the µ-opioid receptor in acidified microenvironments inhibits colitis pain without side effects. Gut, 2022, 71, 695-704. | 12.1 | 28 |
| 2 | Cannabidivarin for HIVâ€Associated Neuropathic Pain: A Randomized, Blinded, Controlled Clinical Trial. Clinical Pharmacology and Therapeutics, 2021, 109, 1055-1062. | 4.7 | 19 |
| 3 | Uncovering the analgesic effects of a pH-dependent mu-opioid receptor agonist using a model of nonevoked ongoing pain. Pain, 2020, 161, 2798-2804. | 4.2 | 10 |
| 4 | A low pKa ligand inhibits cancer-associated pain in mice by activating peripheral mu-opioid receptors. Scientific Reports, 2020, 10, 18599. | 3.3 | 7 |
| 5 | Opioid analgesia: recent developments. Current Opinion in Supportive and Palliative Care, 2020, 14, 112-117. | 1.3 | 20 |
| 6 | Potential Energy Function for Fentanyl-Based Opioid Pain Killers. Journal of Chemical Information and Modeling, 2020, 60, 3566-3576. | 5.4 | 13 |
| 7 | Immune System, Pain and Analgesia. , 2020, , 385-397. | | 1 |
| 8 | Modulation of μâ€opioid receptor activation by acidic pH is dependent on ligand structure and an ionizable amino acid residue. British Journal of Pharmacology, 2019, 176, 4510-4520. | 5.4 | 18 |
| 9 | Pain therapy – Are there new options on the horizon?. Best Practice and Research in Clinical Rheumatology, 2019, 33, 101420. | 3.3 | 10 |
| 10 | Tailorâ€Made Coreâ€Multishell Nanocarriers for the Delivery of Cationic Analgesics to Inflamed Tissue. Advanced Therapeutics, 2019, 2, 1900007. | 3.2 | 2 |
| 11 | pKa of opioid ligands as a discriminating factor for side effects. Scientific Reports, 2019, 9, 19344. | 3.3 | 19 |
| 12 | Topical application of morphine for wound healing and analgesia in patients with oral lichen planus: a randomized, double-blind, placebo-controlled study. Clinical Oral Investigations, 2018, 22, 305-311. | 3.0 | 10 |
| 13 | Analgesic effects of a novel pH-dependent μ-opioid receptor agonist in models of neuropathic and abdominal pain. Pain, 2018, 159, 2277-2284. | 4.2 | 51 |
| 14 | New concepts in opioid analgesia. Expert Opinion on Investigational Drugs, 2018, 27, 765-775. | 4.1 | 104 |
| 15 | Opioid receptor signaling, analgesic and side effects induced by a computationally designed pH-dependent agonist. Scientific Reports, 2018, 8, 8965. | 3.3 | 47 |
| 16 | Inflammatory-linked changes in CpG island methylation of three opioid peptide genes in a rat model for pain. PLoS ONE, 2018, 13, e0191698. | 2.5 | 5 |
| 17 | Ankyrinâ€rich membrane spanning protein as a novel modulator of transient receptor potential vanilloid 1â€function in nociceptive neurons. European Journal of Pain, 2017, 21, 1072-1086. | 2.8 | 4 |
| 18 | A nontoxic pain killer designed by modeling of pathological receptor conformations. Science, 2017, 355, 966-969. | 12.6 | 175 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Cytotoxic T cells modulate inflammation and endogenous opioid analgesia in chronic arthritis. Journal of Neuroinflammation, 2017, 14, 30. | 7.2 | 38 |
| 20 | Production of G proteinâ€coupled receptors in an insectâ€based cellâ€free system. Biotechnology and Bioengineering, 2017, 114, 2328-2338. | 3.3 | 29 |
| 21 | Novel Opioid Analgesics and Side Effects. ACS Chemical Neuroscience, 2017, 8, 1638-1640. | 3.5 | 52 |
| 22 | B Lymphocytes Express Pomc mRNA, Processing Enzymes and β-Endorphin in Painful Inflammation. Journal of NeuroImmune Pharmacology, 2017, 12, 180-186. | 4.1 | 10 |
| 23 | Targeting delta opioid receptors for pain treatment: drugs in phase I and II clinical development. Expert Opinion on Investigational Drugs, 2017, 26, 155-160. | 4.1 | 37 |
| 24 | Emergent biomarker derived from next-generation sequencing to identify pain patients requiring uncommonly high opioid doses. Pharmacogenomics Journal, 2017, 17, 419-426. | 2.0 | 25 |
| 25 | Polyglycerol-opioid conjugate produces analgesia devoid of side effects. ELife, 2017, 6, . | 6.0 | 32 |
| 26 | Opioid Receptors. Annual Review of Medicine, 2016, 67, 433-451. | 12.2 | 339 |
| 27 | Scientific fraud. Trends in Anaesthesia and Critical Care, 2015, 5, 76-79. | 0.9 | 1 |
| 28 | Analgesic efficacy of opioids in chronic pain: recent metaâ€analyses. British Journal of Pharmacology, 2015, 172, 324-333. | 5.4 | 89 |
| 29 | Methylnaltrexone and opioid analgesia. Pain, 2014, 155, 2722-2723. | 4.2 | 4 |
| 30 | Opioids for the treatment of arthritis pain. Expert Opinion on Pharmacotherapy, 2014, 15, 193-202. | 1.8 | 15 |
| 31 | Modulation of Transient Receptor Vanilloid 1 Activity by Transient Receptor Potential Ankyrin 1. Molecular Pharmacology, 2014, 85, 335-344. | 2.3 | 79 |
| 32 | Peripheral opioid receptor blockade increases postoperative morphine demands—A randomized, double-blind, placebo-controlled trial. Pain, 2014, 155, 2056-2062. | 4.2 | 54 |
| 33 | A randomized, controlled, clinical pilot study assessing the analgesic effect of morphine applied topically onto split-thickness skin wounds. Journal of Pharmacy and Pharmacology, 2014, 66, 1559-1566. | 2.4 | 8 |
| 34 | Targeting inflammation and wound healing by opioids. Trends in Pharmacological Sciences, 2013, 34, 303-312. | 8.7 | 105 |
| 35 | Towards safer and more effective analgesia. Veterinary Journal, 2013, 196, 6-7. | 1.7 | 6 |
| 36 | Opioid withdrawal increases transient receptor potential vanilloid 1 activity in a protein kinase A-dependent manner. Pain, 2013, 154, 598-608. | 4.2 | 54 |

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| 37 | Opioids, sensory systems and chronic pain. European Journal of Pharmacology, 2013, 716, 179-187. | 3.5 | 87 |
| 38 | A thermosensitive morphine-containing hydrogel for the treatment of large-scale skin wounds. International Journal of Pharmaceutics, 2013, 444, 96-102. | 5.2 | 86 |
| 39 | The K ⁺ channel GIRK2 is both necessary and sufficient for peripheral opioidâ€mediated analgesia. EMBO Molecular Medicine, 2013, 5, 1263-1277. | 6.9 | 87 |
| 40 | Functional Characteristics of the Naked Mole Rat \hat{l} 4-Opioid Receptor. PLoS ONE, 2013, 8, e79121. | 2.5 | 11 |
| 41 | Targeting pain and inflammation by peripherally acting opioids. Frontiers in Pharmacology, 2013, 4, 123. | 3.5 | 61 |
| 42 | Pain inhibition by blocking leukocytic and neuronal opioid peptidases in peripheral inflamed tissue. FASEB Journal, 2012, 26, 5161-5171. | 0.5 | 63 |
| 43 | Non-Analgesic Effects of Opioids: Peripheral Opioid Effects on Inflammation and Wound Healing. Current Pharmaceutical Design, 2012, 18, 6053-6069. | 1.9 | 63 |
| 44 | Fentanyl decreases discharges of C and A nociceptors to suprathreshold mechanical stimulation in chronic inflammation. Journal of Neurophysiology, 2012, 108, 2827-2836. | 1.8 | 21 |
| 45 | JAK-STAT1/3-Induced Expression of Signal Sequence-Encoding Proopiomelanocortin mRNA in Lymphocytes Reduces Inflammatory Pain in Rats. Molecular Pain, 2012, 8, 1744-8069-8-83. | 2.1 | 29 |
| 46 | Liquid Chromatography-Tandem Mass Spectrometry for Analysis of Intestinal Permeability of Loperamide in Physiological Buffer. PLoS ONE, 2012, 7, e48502. | 2.5 | 5 |
| 47 | Analysis of absorption enhancers in epithelial cell models. Annals of the New York Academy of Sciences, 2012, 1258, 86-92. | 3.8 | 22 |
| 48 | Impaired Nociception and Peripheral Opioid Antinociception in Mice Lacking Both Kinin B1 and B2 Receptors. Anesthesiology, 2012, 116, 448-457. | 2.5 | 38 |
| 49 | Modulation of Tight Junction Proteins in the Perineurium to Facilitate Peripheral Opioid Analgesia. Anesthesiology, 2012, 116, 1323-1334. | 2.5 | 25 |
| 50 | Exploiting Fluorescence Lifetime Plasticity in FLIM: Target Molecule Localization in Cells and Tissues. ACS Medicinal Chemistry Letters, 2011, 2, 724-728. | 2.8 | 37 |
| 51 | Modulation of Peripheral Sensory Neurons by the Immune System: Implications for Pain Therapy. Pharmacological Reviews, 2011, 63, 860-881. | 16.0 | 165 |
| 52 | Blockade of intra-articular adrenergic receptors increases analgesic demands for pain relief after knee surgery. Rheumatology International, 2011, 31, 1299-1306. | 3.0 | 13 |
| 53 | Immunosuppressive Effects of Opioids—Clinical Relevance. Journal of NeuroImmune Pharmacology, 2011, 6, 490-502. | 4.1 | 64 |
| 54 | Opioid use in chronic noncancer pain: guidelines revisited. Current Opinion in Anaesthesiology, 2010, 23, 598-601. | 2.0 | 48 |

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| 55 | 3D-Wound healing model: Influence of morphine and solid lipid nanoparticles. Journal of Biotechnology, 2010, 148, 24-30. | 3.8 | 110 |
| 56 | Opioids in rheumatic diseases. Annals of the New York Academy of Sciences, 2010, 1193, 111-116. | 3.8 | 19 |
| 57 | Opioid receptors and opioid peptide-producing leukocytes in inflammatory pain – Basic and therapeutic aspects. Brain, Behavior, and Immunity, 2010, 24, 683-694. | 4.1 | 68 |
| 58 | Anesthesia and Treatment of Chronic Pain. , 2010, , 1797-1818. | | 4 |
| 59 | Mycobacteria Attenuate Nociceptive Responses by Formyl Peptide Receptor Triggered Opioid Peptide Release from Neutrophils. PLoS Pathogens, 2009, 5, e1000362. | 4.7 | 79 |
| 60 | Peripheral mechanisms of pain and analgesia. Brain Research Reviews, 2009, 60, 90-113. | 9.0 | 230 |
| 61 | Peripheral mechanisms of opioid analgesia. Current Opinion in Pharmacology, 2009, 9, 3-8. | 3.5 | 227 |
| 62 | Antinociception by neutrophil-derived opioid peptides in noninflamed tissue—Role of hypertonicity and the perineurium. Brain, Behavior, and Immunity, 2009, 23, 548-557. | 4.1 | 31 |
| 63 | Peripheral Non-Viral MIDGE Vector-Driven Delivery of β-Endorphin in Inflammatory Pain. Molecular Pain, 2009, 5, 1744-8069-5-72. | 2.1 | 25 |
| 64 | Opioids and Sensory Nerves. Handbook of Experimental Pharmacology, 2009, , 495-518. | 1.8 | 84 |
| 65 | Topical administration of analgesics. , 2009, , 450-457. | | 2 |
| 66 | The other side of the medal: How chemokines promote analgesia. Neuroscience Letters, 2008, 437, 203-208. | 2.1 | 24 |
| 67 | Pain and the immune system. British Journal of Anaesthesia, 2008, 101, 40-44. | 3.4 | 91 |
| 68 | Chronic morphine use does not induce peripheral tolerance in a rat model of inflammatory pain. Journal of Clinical Investigation, 2008, 118, 1065-73. | 8.2 | 105 |
| 69 | Immune System, Pain and Analgesia. , 2008, , 407-427. | | 5 |
| 70 | Opioids. , 2007, , 31-63. | | 125 |
| 71 | Â-Endorphin, Met-enkephalin and corresponding opioid receptors within synovium of patients with joint trauma, osteoarthritis and rheumatoid arthritis. Annals of the Rheumatic Diseases, 2007, 66, 871-879. | 0.9 | 105 |
| 72 | μ-Opioid Receptor Activation Modulates Transient Receptor Potential Vanilloid 1 (TRPV1) Currents in Sensory Neurons in A Model of Inflammatory Pain. Molecular Pharmacology, 2007, 71, 12-18. | 2.3 | 131 |

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|----|--|-----|-----------|
| 73 | Involvement of Intra-articular Corticotropin-releasing Hormone in Postoperative Pain Modulation. Clinical Journal of Pain, 2007, 23, 136-142. | 1.9 | 47 |
| 74 | Influence of pain treatment by epidural fentanyl and bupivacaine on homing of opioid-containing leukocytes to surgical wounds. Brain, Behavior, and Immunity, 2007, 21, 544-552. | 4.1 | 23 |
| 75 | CXCR1/2 ligands induce p38 MAPK-dependent translocation and release of opioid peptides from primary granules in vitro and in vivo. Brain, Behavior, and Immunity, 2007, 21, 1021-1032. | 4.1 | 53 |
| 76 | Endothelin Potentiates TRPV1 via ETAReceptor-Mediated Activation of Protein Kinase C. Molecular Pain, 2007, 3, 1744-8069-3-35. | 2.1 | 68 |
| 77 | Immune-derived Opioids: Production and Function in Inflammatory Pain. , 2007, , 159-169. | | 0 |
| 78 | Relative contribution of peripheral versus central opioid receptors to antinociception. Brain Research, 2007, 1160, 30-38. | 2.2 | 111 |
| 79 | Lymphocytes upregulate signal sequence-encoding proopiomelanocortin mRNA and beta-endorphin during painful inflammation in vivo. Journal of Neuroimmunology, 2007, 183, 133-145. | 2.3 | 61 |
| 80 | Neurokinin-1 Receptor Antagonists Inhibit the Recruitment of Opioid-containing Leukocytes and Impair Peripheral Antinociception. Anesthesiology, 2007, 107, 1009-1017. | 2.5 | 35 |
| 81 | Intra-Articular Morphine for Inflammatory Pain. Regional Anesthesia and Pain Medicine, 2006, 31, 496-497. | 2.3 | 8 |
| 82 | Interleukin-1 beta contributes to the upregulation of kappa opioid receptor mrna in dorsal root ganglia in response to peripheral inflammation. Neuroscience, 2006, 141, 989-998. | 2.3 | 60 |
| 83 | Intra-Articular Morphine for Inflammatory Pain. Regional Anesthesia and Pain Medicine, 2006, 31, 496-497. | 2.3 | 4 |
| 84 | Leukocyte-Derived Opioid Peptides and Inhibition of Pain. Journal of NeuroImmune Pharmacology, 2006, 1, 90-97. | 4.1 | 44 |
| 85 | Comment on "Neutrophils: are they hyperalgesic or anti-hyperalgesic?― Journal of Leukocyte Biology, 2006, 80, 729-730. | 3.3 | 2 |
| 86 | Selective local PMN recruitment by CXCL1 or CXCL2/3 injection does not cause inflammatory pain. Journal of Leukocyte Biology, 2006, 79, 1022-1032. | 3.3 | 81 |
| 87 | Pain control by CXCR2 ligands through Ca 2+ â€regulated release of opioid peptides from polymorphonuclear cells. FASEB Journal, 2006, 20, 2627-2629. | 0.5 | 110 |
| 88 | Peripheral Antinociceptive Effects of Exogenous and Immune Cell-Derived Endomorphins in Prolonged Inflammatory Pain. Journal of Neuroscience, 2006, 26, 4350-4358. | 3.6 | 73 |
| 89 | Involvement of cytokines, chemokines and adhesion molecules in opioid analgesia. European Journal of Pain, 2005, 9, 109-112. | 2.8 | 35 |
| 90 | Leukocytes in the regulation of pain and analgesia. Journal of Leukocyte Biology, 2005, 78, 1215-1222. | 3.3 | 104 |

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| # | Article | IF | CITATIONS |
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| 91 | Controlling Pain by Influencing Neurogenic Pathways. Rheumatic Disease Clinics of North America, 2005, 31, 103-113. | 1.9 | 8 |
| 92 | Subcellular Pathways of β-Endorphin Synthesis, Processing, and Release from Immunocytes in Inflammatory Pain. Endocrinology, 2004, 145, 1331-1341. | 2.8 | 161 |
| 93 | Increased numbers of opioid expressing inflammatory cells do not affect intra-articular morphine analgesia â€. British Journal of Anaesthesia, 2004, 93, 375-380. | 3.4 | 34 |
| 94 | Characterization of μ Opioid Receptor Binding and G Protein Coupling in Rat Hypothalamus, Spinal Cord, and Primary Afferent Neurons during Inflammatory Pain. Journal of Pharmacology and Experimental Therapeutics, 2004, 308, 712-718. | 2.5 | 79 |
| 95 | Sympathetic activation triggers endogenous opioid release and analgesia within peripheral inflamed tissue. European Journal of Neuroscience, 2004, 20, 92-100. | 2.6 | 124 |
| 96 | Selectins and integrins but not platelet-endothelial cell adhesion molecule-1 regulate opioid inhibition of inflammatory pain. British Journal of Pharmacology, 2004, 142, 772-780. | 5.4 | 53 |
| 97 | Endogenous peripheral antinociception in early inflammation is not limited by the number of opioid-containing leukocytes but by opioid receptor expression. Pain, 2004, 108, 67-75. | 4.2 | 72 |
| 98 | Potential links between leukocytes and antinociception. Pain, 2004, 111, 1-2. | 4.2 | 6 |
| 99 | Control of inflammatory pain by chemokine-mediated recruitment of opioid-containing polymorphonuclear cells. Pain, 2004, 112, 229-238. | 4.2 | 115 |
| 100 | Rapid upregulation of μ opioid receptor mrna in dorsal root ganglia in response to peripheral inflammation depends on neuronal conduction. Neuroscience, 2004, 129, 473-479. | 2.3 | 109 |
| 101 | Tissue Monocytes/Macrophages in Inflammation. Anesthesiology, 2004, 101, 204-211. | 2.5 | 66 |
| 102 | Mobilization of Opioid-containing Polymorphonuclear Cells by Hematopoietic Growth Factors and Influence on Inflammatory Pain. Anesthesiology, 2004, 100, 149-157. | 2.5 | 57 |
| 103 | Altered Cell-mediated Immunity and Increased Postoperative Infection Rate in Long-term Alcoholic Patients. Anesthesiology, 2004, 100, 1088-1100. | 2.5 | 151 |
| 104 | Neurogenic painful inflammation. Current Opinion in Anaesthesiology, 2004, 17, 461-464. | 2.0 | 7 |
| 105 | Different mechanisms of intrinsic pain inhibition in early and late inflammation. Journal of Neuroimmunology, 2003, 141, 30-39. | 2.3 | 115 |
| 106 | Immune mechanisms in pain control. Journal of Neurochemistry, 2003, 85, 12-12. | 3.9 | 0 |
| 107 | Breaking the pain barrier. Nature Medicine, 2003, 9, 1353-1354. | 30.7 | 10 |
| 108 | Attacking pain at its source: new perspectives on opioids. Nature Medicine, 2003, 9, 1003-1008. | 30.7 | 535 |

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| 109 | The role of the peripheral nervous system in immune cell recruitment. Experimental Neurology, 2003, 184, 44-49. | 4.1 | 14 |
| 110 | Involvement of corticotropin-releasing hormone receptor subtypes 1 and 2 in peripheral opioid-mediated inhibition of inflammatory pain. Pain, 2003, 106, 297-307. | 4.2 | 68 |
| 111 | Advances in Neuropathic Pain. Archives of Neurology, 2003, 60, 1524. | 4.5 | 1,117 |
| 112 | Painful Inflammation-Induced Increase in μ-Opioid Receptor Binding and G-Protein Coupling in Primary Afferent Neurons. Molecular Pharmacology, 2003, 64, 202-210. | 2.3 | 178 |
| 113 | Pro-algesic versus analgesic actions of immune cells. Current Opinion in Anaesthesiology, 2003, 16, 527-533. | 2.0 | 26 |
| 114 | Modulation of Peripheral Endogenous Opioid Analgesia by Central Afferent Blockade. Anesthesiology, 2003, 98, 195-202. | 2.5 | 46 |
| 115 | Peripheral Opioid Analgesia. Current Pharmaceutical Biotechnology, 2003, 4, 270-274. | 1.6 | 86 |
| 116 | Peripheral analgesic and anti-inflammatory effects of opioids — neuro-immune crosstalk. , 2003, , 137-148. | | 0 |
| 117 | Peripheral Opioid Analgesia Neuroimmune Interactions and Therapeutic Implications. , 2003, , . | | 0 |
| 118 | Opioid receptors on peripheral sensory neurons. Advances in Experimental Medicine and Biology, 2003, 521, 69-76. | 1.6 | 29 |
| 119 | Immune Mechanisms in Pain Control. Anesthesia and Analgesia, 2002, 95, 1002-1008. | 2.2 | 39 |
| 120 | Immune Mechanisms in Pain Control. Anesthesia and Analgesia, 2002, 95, 1002-1008. | 2.2 | 55 |
| 121 | Opioid Control of Inflammatory Pain Regulated by Intercellular Adhesion Molecule-1. Journal of Neuroscience, 2002, 22, 5588-5596. | 3.6 | 111 |
| 122 | Immunohistochemical localization of endomorphin-1 and endomorphin-2 in immune cells and spinal cord in a model of inflammatory pain. Journal of Neuroimmunology, 2002, 126, 5-15. | 2.3 | 120 |
| 123 | Methionine-enkephalin-and Dynorphin A-release from immune cells and control of inflammatory pain. Pain, 2001, 93, 207-212. | 4.2 | 142 |
| 124 | Peripheral opioid analgesia. Current Opinion in Pharmacology, 2001, 1, 62-65. | 3.5 | 88 |
| 125 | Analgesic and Antiinflammatory Effects of Two Novel κ-Opioid Peptides. Anesthesiology, 2001, 94, 1034-1044. | 2.5 | 100 |
| 126 | Opioid Peptide–expressing Leukocytes. Anesthesiology, 2001, 95, 500-508. | 2.5 | 206 |

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| 127 | Peripheral analgesic and antiinflammatory effects of opioids. Zeitschrift Fur Rheumatologie, 2001, 60, 416-424. | 1.0 | 81 |
| 128 | β-Endorphin-containing memory-cells and μ-opioid receptors undergo transport to peripheral inflamed tissue. Journal of Neuroimmunology, 2001, 115, 71-78. | 2.3 | 185 |
| 129 | Efficacy of Peripheral Morphine Analgesia in Inflamed, Non-Inflamed and Perineural Tissue of Dental Surgery Patients. Journal of Pain and Symptom Management, 2001, 21, 330-337. | 1.2 | 88 |
| 130 | What is wrong with opioids in chronic pain?. Current Opinion in Anaesthesiology, 2000, 13, 557-559. | 2.0 | 8 |
| 131 | Pain Control by Immune-Derived Opioids. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 533-536. | 1.9 | 49 |
| 132 | Co-expression of β-endorphin with adhesion molecules in a model of inflammatory pain. Journal of Neuroimmunology, 2000, 108, 160-170. | 2.3 | 50 |
| 133 | Dynorphin A Peptides. CNS Drugs, 2000, 13, 161-166. | 5.9 | 1 |
| 134 | Why is morphine not the ultimate analgesic and what can be done to improve it?. Journal of Pain, 2000, 1, 51-56. | 1.4 | 26 |
| 135 | Dose-dependency of intra-articular morphine analgesia. British Journal of Anaesthesia, 1999, 83, 241-244. | 3.4 | 64 |
| 136 | Intraarticular morphine versus dexamethasone in chronic arthritis. Pain, 1999, 83, 525-532. | 4.2 | 128 |
| 137 | Pain control and the immune system. Current Opinion in Anaesthesiology, 1999, 12, 579-581. | 2.0 | 1 |
| 138 | Peripheral effects of the kappa-opioid agonist EMD 61753 on pain and inflammation in rats and humans. Journal of Pharmacology and Experimental Therapeutics, 1999, 290, 354-61. | 2.5 | 68 |
| 139 | Pain control in inflammation governed by selectins. Nature Medicine, 1998, 4, 1425-1428. | 30.7 | 164 |
| 140 | Peripheral morphine analgesia in dental surgery. Pain, 1998, 76, 145-150. | 4.2 | 90 |
| 141 | Effects of neurotoxins and hindpaw inflammation on opioid receptor immunoreactivities in dorsal root ganglia. Neuroscience, 1998, 85, 281-291. | 2.3 | 77 |
| 142 | Peripheral nociceptive integration. Pain Forum, 1998, 7, 87-89. | 1.1 | 0 |
| 143 | Endogenous Opioid Peptides and Analgesia. , 1998, , 21-45. | | 3 |
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144 Peripheral Opioid Analgesia: Mechanisms and Clinical Implications. , 1998, , 96-108.

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|-----|---|-----|-----------|
| 145 | Opioids in Visceral Pain. , 1998, , 325-334. | | 1 |
| 146 | The Control of Pain in Peripheral Tissue by Cytokines and Neuropeptides. , 1998, , . | | 0 |
| 147 | Contribution of opioid receptors on primary afferent versus sympathetic neurons to peripheral opioid analgesia. Journal of Pharmacology and Experimental Therapeutics, 1998, 286, 1000-6. | 2.5 | 76 |
| 148 | Opioid Treatment of Chronic Nonmalignant Pain1. Anesthesia and Analgesia, 1997, 84, 912-914. | 2.2 | 15 |
| 149 | Peripheral morphine analgesia. Pain, 1997, 71, 119-121. | 4.2 | 85 |
| 150 | Opioid Treatment of Chronic Nonmalignant Pain1. Anesthesia and Analgesia, 1997, 84, 912-914. | 2.2 | 31 |
| 151 | Corticotropin-releasing factor in antinociception and inflammation. European Journal of Pharmacology, 1997, 323, 1-10. | 3.5 | 105 |
| 152 | Antinociceptive effects of dynorphin peptides in a model of inflammatory pain. Pain, 1997, 70, 141-147. | 4.2 | 20 |
| 153 | Cholecystokinin inhibits peripheral opioid analgesia in inflamed tissue. Neuroscience, 1997, 82, 603-611. | 2.3 | 30 |
| 154 | Novel peripheral mechanisms of opioid analgesia. Behavioral and Brain Sciences, 1997, 20, 465-466. | 0.7 | 0 |
| 155 | Peripheral opioid analgesia: Basic and clinical aspects. Seminars in Anesthesia, 1997, 16, 112-116. | 0.3 | 6 |
| 156 | Immune cell-derived beta-endorphin. Production, release, and control of inflammatory pain in rats Journal of Clinical Investigation, 1997, 100, 142-148. | 8.2 | 274 |
| 157 | Local upregulation of corticotropin-releasing hormone and interleukin-1 receptors in rats with painful hindlimb inflammation. European Journal of Pharmacology, 1996, 311, 221-231. | 3.5 | 64 |
| 158 | Expression of corticotropin-releasing factor in inflamed tissue is required for intrinsic peripheral opioid analgesia Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 6096-6100. | 7.1 | 172 |
| 159 | No tolerance to peripheral morphine analgesia in presence of opioid expression in inflamed synovia Journal of Clinical Investigation, 1996, 98, 793-799. | 8.2 | 177 |
| 160 | Intraperitoneal Versus Interpleural Morphine or Bupivacaine for Pain after Laparoscopic CholecystectomyÂ. Anesthesiology, 1995, 82, 634-640. | 2.5 | 115 |
| 161 | Perineurial defect and peripheral opioid analgesia in inflammation. Journal of Neuroscience, 1995, 15, 165-172. | 3.6 | 321 |
| 162 | Peripheral Opioid Receptors. Annals of Medicine, 1995, 27, 219-221. | 3.8 | 77 |

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| 163 | Inflammation enhances peripheral μ-opioid receptor-mediated analgesia, but not μ-opioid receptor transcription in dorsal root ganglia. European Journal of Pharmacology, 1995, 279, 165-169. | 3.5 | 103 |
| 164 | The Control of Pain in Peripheral Tissue by Opioids. New England Journal of Medicine, 1995, 332, 1685-1690. | 27.0 | 657 |
| 165 | Opioids as novel intra-articular agents for analgesia following arthroscopic knee surgery. Knee Surgery, Sports Traumatology, Arthroscopy, 1994, 2, 174-175. | 4.2 | 7 |
| 166 | Local inflammation of the rat paw enhances opioid receptor density in paw tissue and their axonal transport in sciatic nerve. Regulatory Peptides, 1994, 53, S163-S164. | 1.9 | 1 |
| 167 | Cytokine-induced antinociception mediated by opioids released from immune cells. Regulatory Peptides, 1994, 53, S191-S192. | 1.9 | 1 |
| 168 | Corticotropin releasing factor receptors in inflamed tissue: Autoradiographic identification. Regulatory Peptides, 1994, 54, 203-204. | 1.9 | 4 |
| 169 | Interleukin-1 -and corticotropin releasing factor-induced release of β-endorphin from immune cells and inhibition of inflammatory pain. Regulatory Peptides, 1994, 54, 255-256. | 1.9 | 1 |
| 170 | Human μ receptor: Gene structure, expression, and μ/κ chimeras that define nontransmembrane domains influencing peptide binding affinities. Regulatory Peptides, 1994, 54, 317-320. | 1.9 | 1 |
| 171 | Interleukin 1 beta and corticotropin-releasing factor inhibit pain by releasing opioids from immune cells in inflamed tissue Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 4219-4223. | 7.1 | 314 |
| 172 | Intraarticular opioid-local anesthetic combinations for chronic joint pain. Middle East Journal of Anesthesiology, 1994, 12, 579-85. | 0.2 | 4 |
| 173 | Peripheral mechanisms of opioid antinociception in inflammation: involvement of cytokines. European Journal of Pharmacology, 1993, 242, 229-235. | 3.5 | 127 |
| 174 | Inflammation of the rat paw enhances axonal transport of opioid receptors in the sciatic nerve and increases their density in the inflamed tissue. Neuroscience, 1993, 55, 185-195. | 2.3 | 341 |
| 175 | Local analgesic effect of endogenous opioid peptides. Lancet, The, 1993, 342, 321-324. | 13.7 | 334 |
| 176 | Peripheral Mechanisms of Opioid Analgesia. Anesthesia and Analgesia, 1993, 76, 182???191. | 2.2 | 486 |
| 177 | Peripheral Mechanisms of Opioid Analgesia. Handbook of Experimental Pharmacology, 1993, , 91-103. | 1.8 | 11 |
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