# Carolyn A Fairbanks

List of Publications by Year
in descending order



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|---|---|---|---|
| 47 papers | 2,032 citations | 304743 22 h-index | 254184 43 g-index |
| 47 all docs | 47 docs citations | 47 times ranked | 2344 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Agmatine: clinical applications after 100 years in translation. Drug Discovery Today, 2013, 18, 880-893. | 6.4 | 207 |
| 2 | Spinal analgesic actions of the new endogenous opioid peptides endomorphin-1 and -2. NeuroReport, 1997, 8, 3131-3135. | 1.2 | 194 |
| 3 | Spinal delivery of analgesics in experimental models of pain and analgesia. Advanced Drug Delivery Reviews, 2003, 55, 1007-1041. | 13.7 | 191 |
| 4 | Î±2C-Adrenergic Receptors Mediate Spinal Analgesia and Adrenergic-Opioid Synergy. Journal of Pharmacology and Experimental Therapeutics, 2002, 300, 282-290. | 2.5 | 165 |
| 5 | Biodistribution of adeno-associated virus serotype 9 (AAV9) vector after intrathecal and intravenous delivery in mouse. Frontiers in Neuroanatomy, 2014, 8, 42. | 1.7 | 137 |
| 6 | Differential Adeno-Associated Virus Mediated Gene Transfer to Sensory Neurons following Intrathecal Delivery by Direct Lumbar Puncture. Molecular Pain, 2010, 6, 1744-8069-6-31. | 2.1 | 99 |
| 7 | Pharmacological profiles of alpha 2 adrenergic receptor agonists identified using genetically altered mice and isobolographic analysis. , 2009, 123, 224-238. | | 86 |
| 8 | Agmatine improves locomotor function and reduces tissue damage following spinal cord injury. NeuroReport, 2000, 11, 3203-3207. | 1.2 | 69 |
| 9 | Effects of agmatine, interleukin-10, and cyclosporin on spontaneous pain behavior after excitotoxic spinal cord injury in rats. Journal of Pain, 2003, 4, 129-140. | 1.4 | 58 |
| 10 | Current Gene Therapy using Viral Vectors for Chronic Pain. Molecular Pain, 2015, 11, s12990-015-0018. | 2.1 | 55 |
| 11 | Pharmacodynamic and Pharmacokinetic Studies of Agmatine after Spinal Administration in the Mouse. Journal of Pharmacology and Experimental Therapeutics, 2005, 314, 1226-1233. | 2.5 | 54 |
| 12 | OCT2 and MATE1 Provide Bidirectional Agmatine Transport. Molecular Pharmaceutics, 2011, 8, 133-142. | 4.6 | 54 |
| 13 | Morphine and Clonidine Combination Therapy Improves Therapeutic Window in Mice: Synergy in Antinociceptive but Not in Sedative or Cardiovascular Effects. PLoS ONE, 2014, 9, e109903. | 2.5 | 41 |
| 14 | Moxonidine, a selective imidazoline/ Î± 2 adrenergic receptor agonist, synergizes with morphine and deltorphin II to inhibit substance P-induced behavior in mice. Pain, 2000, 84, 13-20. | 4.2 | 40 |
| 15 | The VGF-derived peptide TLQP-21 contributes to inflammatory and nerve injury-induced hypersensitivity. Pain, 2014, 155, 1229-1237. | 4.2 | 39 |
| 16 | Prevention of Neurocognitive Deficiency in Mucopolysaccharidosis Type II Mice by Central Nervous Systemâ€"Directed, AAV9-Mediated Iduronate Sulfatase Gene Transfer. Human Gene Therapy, 2017, 28, 626-638. | 2.7 | 38 |
| 17 | Neuropharmacokinetic and Dynamic Studies of Agmatine (Decarboxylated Arginine). Annals of the New York Academy of Sciences, 2003, 1009, 82-105. | 3.8 | 37 |
| 18 | Effect of Chronic Pain on Fentanyl Self-Administration in Mice. PLoS ONE, 2013, 8, e79239. | 2.5 | 35 |

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|---|---|---|---|
| 19 | Complement 3a receptor in dorsal horn microglia mediates pronociceptive neuropeptide signaling. Glia, 2017, 65, 1976-1989. | 4.9 | 30 |
| 20 | Supraspinally-administered agmatine attenuates the development of oral fentanyl self-administration. European Journal of Pharmacology, 2008, 587, 135-140. | 3.5 | 29 |
| 21 | Clonidine and Dexmedetomidine Produce Antinociceptive Synergy in Mouse Spinal Cord. Anesthesiology, 2009, 110, 638-647. | 2.5 | 29 |
| 22 | The Study of Pain in Rats and Mice. Comparative Medicine, 2019, 69, 555-570. | 1.0 | 29 |
| 23 | Spinal plasticity of acute opioid tolerance. Journal of Biomedical Science, 2000, 7, 200-212. | 7.0 | 27 |
| 24 | DPDPE-UK14,304 synergy is retained in mu opioid receptor knockout mice. Pain, 2003, 104, 209-217. | 4.2 | 27 |
| 25 | Bivalent ligand that activates mu opioid receptor and antagonizes mGluR5 receptor reduces neuropathic pain in mice. Pain, 2017, 158, 2431-2441. | 4.2 | 23 |
| 26 | Release of tritiated agmatine from spinal synaptosomes. NeuroReport, 2006, 17, 13-17. | 1.2 | 22 |
| 27 | Supraspinal gene transfer by intrathecal adeno-associated virus serotype 5. Frontiers in Neuroanatomy, 2014, 8, 66. | 1.7 | 20 |
| 28 | ST91 [2-(2,6-Diethylphenylamino)-2-imidazoline Hydrochloride]-Mediated Spinal Antinociception and Synergy with Opioids Persists in the Absence of Functional Î±-2A- or Î±-2C-Adrenergic Receptors. Journal of Pharmacology and Experimental Therapeutics, 2007, 323, 899-906. | 2.5 | 19 |
| 29 | Agmatine transport into spinal nerve terminals is modulated by polyamine analogs. Journal of Neurochemistry, 2007, 100, 132-141. | 3.9 | 18 |
| 30 | Potassium- and capsaicin-induced release of agmatine from spinal nerve terminals. Journal of Neurochemistry, 2007, 102, 1738-1748. | 3.9 | 17 |
| 31 | Protein Kinase CÏµ Is Required for Spinal Analgesic Synergy between Delta Opioid and Alpha-2A Adrenergic Receptor Agonist Pairs. Journal of Neuroscience, 2013, 33, 13538-13546. | 3.6 | 16 |
| 32 | Dual allosteric modulation of opioid antinociceptive potency by Î±2A-adrenoceptors. Neuropharmacology, 2015, 99, 285-300. | 4.1 | 16 |
| 33 | Immunoneutralization of Agmatine Sensitizes Mice to Î¼-Opioid Receptor Tolerance. Journal of Pharmacology and Experimental Therapeutics, 2009, 331, 539-546. | 2.5 | 15 |
| 34 | Supraspinally administered agmatine prevents the development of supraspinal morphine analgesic tolerance. European Journal of Pharmacology, 2006, 536, 133-137. | 3.5 | 14 |
| 35 | Neurobiological studies of chronic pain and analgesia: Rationale and refinements. European Journal of Pharmacology, 2015, 759, 169-181. | 3.5 | 9 |
| 36 | Involvement of the VGF-derived peptide TLQP-62 in nerve injuryâ€“induced hypersensitivity and spinal neuroplasticity. Pain, 2018, 159, 1802-1813. | 4.2 | 9 |

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|---|---|---|---|
| 37 | Detailed Method for Intrathecal Delivery of Gene Therapeutics by Direct Lumbar Puncture in Mice. Methods in Molecular Biology, 2019, 1937, 305-312. | 0.9 | 9 |
| 38 | Agmatine preferentially antagonizes GluN2B-containing<i>N</i>-methyl-<scp>d</scp>-aspartate receptors in spinal cord. Journal of Neurophysiology, 2019, 121, 662-671. | 1.8 | 9 |
| 39 | Agmatine requires GluN2B-containing NMDA receptors to inhibit the development of neuropathic pain. Molecular Pain, 2021, 17, 174480692110291. | 2.1 | 9 |
| 40 | Targeting the somatosensory system with AAV9 and AAV2retro viral vectors. PLoS ONE, 2022, 17, e0264938. | 2.5 | 9 |
| 41 | AAV-Mediated Gene Delivery to the Enteric Nervous System by Intracolonic Injection. Methods in Molecular Biology, 2019, 1950, 407-415. | 0.9 | 6 |
| 42 | Defining and Managing Pain in Stroke and Traumatic Brain Injury Research. Comparative Medicine, 2019, 69, 510-519. | 1.0 | 6 |
| 43 | Sustained-release buprenorphine induces acute opioid tolerance in the mouse. European Journal of Pharmacology, 2020, 885, 173330. | 3.5 | 5 |
| 44 | Biodistribution of Adeno-Associated Virus Serotype 5 Viral Vectors Following Intrathecal Injection. Molecular Pharmaceutics, 2021, 18, 3741-3749. | 4.6 | 5 |
| 45 | AAV-Mediated Gene Delivery to the Spinal Cord by Intrathecal Injection. Methods in Molecular Biology, 2019, 1950, 199-207. | 0.9 | 4 |
| 46 | Central Nervous System Distribution of an Opioid Agonist Combination with Synergistic Activity. Journal of Pharmacology and Experimental Therapeutics, 2022, 380, 34-46. | 2.5 | 2 |
| 47 | Strategically Substituted Agmatine Analogs Reduce Neuropathic Pain and Show Improved Pharmacokinetics Compared to Agmatine. FASEB Journal, 2022, 36, . | 0.5 | 0 |