

Carl R Lupica

List of Publications by Year in descending order

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103
papers

7,408
citations

44069

48
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56724

83
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115
all docs

115
docs citations

115
times ranked

7807
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | It could be habit forming: drugs of abuse and striatal synaptic plasticity. Trends in Neurosciences, 2003, 26, 184-192. | 8.6 | 443 |
| 2 | Mechanisms of Cannabinoid Inhibition of GABA _A Synaptic Transmission in the Hippocampus. Journal of Neuroscience, 2000, 20, 2470-2479. | 3.6 | 384 |
| 3 | Powerful Cocaine-Like Actions of 3,4-Methylenedioxypropylamphetamine (MDPV), a Principal Constituent of Psychoactive "Bath Salts"™ Products. Neuropsychopharmacology, 2013, 38, 552-562. | 5.4 | 361 |
| 4 | Linking Context with Reward: A Functional Circuit from Hippocampal CA3 to Ventral Tegmental Area. Science, 2011, 333, 353-357. | 12.6 | 343 |
| 5 | Single rodent mesohabenular axons release glutamate and GABA. Nature Neuroscience, 2014, 17, 1543-1551. | 14.8 | 290 |
| 6 | Marijuana and cannabinoid regulation of brain reward circuits. British Journal of Pharmacology, 2004, 143, 227-234. | 5.4 | 227 |
| 7 | Dopaminergic and glutamatergic microdomains in a subset of rodent mesoaccumbens axons. Nature Neuroscience, 2015, 18, 386-392. | 14.8 | 222 |
| 8 | Endocannabinoid release from midbrain dopamine neurons: a potential substrate for cannabinoid receptor antagonist treatment of addiction. Neuropharmacology, 2005, 48, 1105-1116. | 4.1 | 216 |
| 9 | New technologies for examining the role of neuronal ensembles in drug addiction and fear. Nature Reviews Neuroscience, 2013, 14, 743-754. | 10.2 | 215 |
| 10 | Independent Presynaptic and Postsynaptic Mechanisms Regulate Endocannabinoid Signaling at Multiple Synapses in the Ventral Tegmental Area. Journal of Neuroscience, 2004, 24, 11070-11078. | 3.6 | 201 |
| 11 | Activity-dependent release of endogenous adenosine modulates synaptic responses in the rat hippocampus. Journal of Neuroscience, 1993, 13, 3439-3447. | 3.6 | 183 |
| 12 | Functional Tolerance and Blockade of Long-Term Depression at Synapses in the Nucleus Accumbens after Chronic Cannabinoid Exposure. Journal of Neuroscience, 2003, 23, 4815-4820. | 3.6 | 183 |
| 13 | Direct Actions of Cannabinoids on Synaptic Transmission in the Nucleus Accumbens: A Comparison With Opioids. Journal of Neurophysiology, 2001, 85, 72-83. | 1.8 | 182 |
| 14 | Cocaine Drives Aversive Conditioning via Delayed Activation of Dopamine-Responsive Habenular and Midbrain Pathways. Journal of Neuroscience, 2013, 33, 7501-7512. | 3.6 | 175 |
| 15 | A glutamatergic reward input from the dorsal raphe to ventral tegmental area dopamine neurons. Nature Communications, 2014, 5, 5390. | 12.8 | 158 |
| 16 | Contribution of the Hyperpolarization-Activated Current (<i>I_h</i>) to Membrane Potential and GABA Release in Hippocampal Interneurons. Journal of Neurophysiology, 2001, 86, 261-268. | 1.8 | 148 |
| 17 | Opposing actions of chronic Δ ⁹ -tetrahydrocannabinol and cannabinoid antagonists on hippocampal long-term potentiation. Learning and Memory, 2007, 14, 63-74. | 1.3 | 126 |
| 18 | Presynaptic inhibition of excitatory synaptic transmission by adenosine in rat hippocampus: analysis of unitary EPSP variance measured by whole-cell recording. Journal of Neuroscience, 1992, 12, 3753-3764. | 3.6 | 125 |

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|----|--|------|-----------|
| 19 | Impaired nigrostriatal function precedes behavioral deficits in a genetic mitochondrial model of Parkinson's disease. <i>FASEB Journal</i> , 2011, 25, 1333-1344. | 0.5 | 112 |
| 20 | Delta and mu enkephalins inhibit spontaneous GABA-mediated IPSCs via a cyclic AMP-independent mechanism in the rat hippocampus. <i>Journal of Neuroscience</i> , 1995, 15, 737-749. | 3.6 | 108 |
| 21 | Opioid Inhibition of Hippocampal Interneurons via Modulation of Potassium and Hyperpolarization-Activated Cation (I_h) Currents. <i>Journal of Neuroscience</i> , 1998, 18, 7084-7098. | 3.6 | 95 |
| 22 | Antagonists of the Receptor-G Protein Interface Block Gi-coupled Signal Transduction. <i>Journal of Biological Chemistry</i> , 1998, 273, 14912-14919. | 3.4 | 92 |
| 23 | Control of Cannabinoid CB ₁ Receptor Function on Glutamate Axon Terminals by Endogenous Adenosine Acting at A ₁ Receptors. <i>Journal of Neuroscience</i> , 2010, 30, 545-555. | 3.6 | 91 |
| 24 | Opioid Receptor Subtype Expression Defines Morphologically Distinct Classes of Hippocampal Interneurons. <i>Journal of Neuroscience</i> , 1999, 19, 85-95. | 3.6 | 88 |
| 25 | Cholecystokinin Increases GABA Release by Inhibiting a Resting K^+ Conductance in Hippocampal Interneurons. <i>Journal of Neuroscience</i> , 1997, 17, 4994-5003. | 3.6 | 85 |
| 26 | Silent synapses in selectively activated nucleus accumbens neurons following cocaine sensitization. <i>Nature Neuroscience</i> , 2012, 15, 1556-1562. | 14.8 | 85 |
| 27 | A Novel Combination of Factors, Termed SPIE, which Promotes Dopaminergic Neuron Differentiation from Human Embryonic Stem Cells. <i>PLoS ONE</i> , 2009, 4, e6606. | 2.5 | 79 |
| 28 | Cocaine-Induced Endocannabinoid Mobilization in the Ventral Tegmental Area. <i>Cell Reports</i> , 2015, 12, 1997-2008. | 6.4 | 77 |
| 29 | Functional localization of cannabinoid receptors and endogenous cannabinoid production in distinct neuron populations of the hippocampus. <i>European Journal of Neuroscience</i> , 2003, 18, 524-534. | 2.6 | 76 |
| 30 | Nogo receptor 1 regulates formation of lasting memories. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20476-20481. | 7.1 | 76 |
| 31 | Optogenetic silencing of a corticotropin-releasing factor pathway from the central amygdala to the bed nucleus of the stria terminalis disrupts sustained fear. <i>Molecular Psychiatry</i> , 2018, 23, 914-922. | 7.9 | 72 |
| 32 | Altered dopamine metabolism and increased vulnerability to MPTP in mice with partial deficiency of mitochondrial complex I in dopamine neurons. <i>Human Molecular Genetics</i> , 2012, 21, 1078-1089. | 2.9 | 69 |
| 33 | Attenuation of basal and cocaine-enhanced locomotion and nucleus accumbens dopamine in cannabinoid CB ₁ -receptor-knockout mice. <i>Psychopharmacology</i> , 2009, 204, 1-11. | 3.1 | 68 |
| 34 | CYP3A5 Mediates Effects of Cocaine on Human Neocortigenesis: Studies using an In Vitro 3D Self-Organized hPSC Model with a Single Cortex-Like Unit. <i>Neuropsychopharmacology</i> , 2017, 42, 774-784. | 5.4 | 68 |
| 35 | Δ^9 -tetrahydrocannabinol is a full agonist at CB ₁ receptors on GABA neuron axon terminals in the hippocampus. <i>Neuropharmacology</i> , 2010, 59, 121-127. | 4.1 | 66 |
| 36 | Differential Effects of Endogenous and Synthetic Cannabinoids on $\alpha 7$ -Nicotinic Acetylcholine Receptor-Mediated Responses in <i>Xenopus</i> Oocytes. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 310, 1152-1160. | 2.5 | 65 |

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|----|---|------|-----------|
| 37 | Phasic Dopamine Signals in the Nucleus Accumbens that Cause Active Avoidance Require Endocannabinoid Mobilization in the Midbrain. <i>Current Biology</i> , 2018, 28, 1392-1404.e5. | 3.9 | 64 |
| 38 | Norepinephrine Activates Dopamine D ₄ Receptors in the Rat Lateral Habenula. <i>Journal of Neuroscience</i> , 2015, 35, 3460-3469. | 3.6 | 62 |
| 39 | Neuron-Specific Genome Modification in the Adult Rat Brain Using CRISPR-Cas9 Transgenic Rats. <i>Neuron</i> , 2019, 102, 105-119.e8. | 8.1 | 62 |
| 40 | Medial Prefrontal Cortex Neuronal Activation and Synaptic Alterations after Stress-Induced Reinstatement of Palatable Food Seeking: A Study Using c-fos-GFP Transgenic Female Rats. <i>Journal of Neuroscience</i> , 2012, 32, 8480-8490. | 3.6 | 60 |
| 41 | Afferent-Specific AMPA Receptor Subunit Composition and Regulation of Synaptic Plasticity in Midbrain Dopamine Neurons by Abused Drugs. <i>Journal of Neuroscience</i> , 2010, 30, 7900-7909. | 3.6 | 59 |
| 42 | The Endocannabinoid Anandamide Inhibits the Function of $\alpha 4\beta 2$ Nicotinic Acetylcholine Receptors. <i>Molecular Pharmacology</i> , 2007, 72, 1024-1032. | 2.3 | 57 |
| 43 | Orbitofrontal activation restores insight lost after cocaine use. <i>Nature Neuroscience</i> , 2014, 17, 1092-1099. | 14.8 | 57 |
| 44 | Dopamine D ₄ Receptor Excitation of Lateral Habenula Neurons via Multiple Cellular Mechanisms. <i>Journal of Neuroscience</i> , 2013, 33, 16853-16864. | 3.6 | 56 |
| 45 | Dissociation of μ and δ opioid receptor-mediated reductions in evoked and spontaneous synaptic inhibition in the rat hippocampus in vitro. <i>Brain Research</i> , 1992, 593, 226-238. | 2.2 | 52 |
| 46 | MPTP-induced deficits in striatal synaptic plasticity are prevented by glial cell line-derived neurotrophic factor expressed <i>in vivo</i> via an adeno-associated viral vector. <i>FASEB Journal</i> , 2008, 22, 261-275. | 0.5 | 51 |
| 47 | Adenosine involvement in postictal events in amygdala-kindled rats. <i>Epilepsy Research</i> , 1990, 6, 171-179. | 1.6 | 50 |
| 48 | Differential effects of μ - and δ -receptor selective opioid agonists on feedforward and feedback GABAergic inhibition in hippocampal brain slices. <i>Synapse</i> , 1991, 8, 237-248. | 1.2 | 50 |
| 49 | Species and strain differences in the expression of a novel glutamate-modulating cannabinoid receptor in the rodent hippocampus. <i>European Journal of Neuroscience</i> , 2005, 22, 2387-2391. | 2.6 | 50 |
| 50 | Synaptic Targets of $\Delta 9$ -Tetrahydrocannabinol in the Central Nervous System. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2013, 3, a012237-a012237. | 6.2 | 49 |
| 51 | Release of endogenous cannabinoids from ventral tegmental area dopamine neurons and the modulation of synaptic processes. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2014, 52, 24-27. | 4.8 | 49 |
| 52 | Cannabinoids as hippocampal network administrators. <i>Neuropharmacology</i> , 2017, 124, 25-37. | 4.1 | 46 |
| 53 | Chronic theophylline treatment increases adenosine A ₁ , but not A ₂ , receptor binding in the rat brain: An autoradiographic study. <i>Synapse</i> , 1991, 9, 95-102. | 1.2 | 44 |
| 54 | Novel and Potent Dopamine D ₂ Receptor Go-Protein Biased Agonists. <i>ACS Pharmacology and Translational Science</i> , 2019, 2, 52-65. | 4.9 | 43 |

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|----|--|-----|-----------|
| 55 | NMDA Receptors on Non-Dopaminergic Neurons in the VTA Support Cocaine Sensitization. PLoS ONE, 2010, 5, e12141. | 2.5 | 39 |
| 56 | PTEN deletion enhances survival, neurite outgrowth and function of dopamine neuron grafts to MitoPark mice. Brain, 2012, 135, 2736-2749. | 7.6 | 39 |
| 57 | Properties of distinct ventral tegmental area synapses activated via pedunculo-pontine or ventral tegmental area stimulation <i>in vitro</i> . Journal of Physiology, 2009, 587, 1233-1247. | 2.9 | 38 |
| 58 | Enhanced Dopamine Release by Dopamine Transport Inhibitors Described by a Restricted Diffusion Model and Fast-Scan Cyclic Voltammetry. ACS Chemical Neuroscience, 2016, 7, 700-709. | 3.5 | 37 |
| 59 | Gene Expression Profile of Neuronal Progenitor Cells Derived from hESCs: Activation of Chromosome 11p15.5 and Comparison to Human Dopaminergic Neurons. PLoS ONE, 2008, 3, e1422. | 2.5 | 36 |
| 60 | Disruption of hippocampal synaptic transmission and long-term potentiation by psychoactive synthetic cannabinoid "Spice" compounds: comparison with 9 -tetrahydrocannabinol. Addiction Biology, 2017, 22, 390-399. | 2.6 | 36 |
| 61 | Cocaine-induced endocannabinoid signaling mediated by sigma-1 receptors and extracellular vesicle secretion. ELife, 2019, 8, . | 6.0 | 36 |
| 62 | The solubilizing detergents, Tween 80 and Triton X-100 non-competitively inhibit 7 -nicotinic acetylcholine receptor function in Xenopus oocytes. Journal of Neuroscience Methods, 2004, 137, 167-173. | 2.5 | 35 |
| 63 | Altered dendritic distribution of dopamine D2 receptors and reduction in mitochondrial number in parvalbumin-containing interneurons in the medial prefrontal cortex of cannabinoid 1 (CB1) receptor knockout mice. Journal of Comparative Neurology, 2012, 520, 4013-4031. | 1.6 | 35 |
| 64 | Lateral Habenula Involvement in Impulsive Cocaine Seeking. Neuropsychopharmacology, 2017, 42, 1103-1112. | 5.4 | 35 |
| 65 | Voltage-dependency of the dopamine transporter in the rat substantia nigra. Neuroscience Letters, 1999, 260, 105-108. | 2.1 | 34 |
| 66 | (-)-Phenserine and the prevention of pre-programmed cell death and neuroinflammation in mild traumatic brain injury and Alzheimer's disease challenged mice. Neurobiology of Disease, 2019, 130, 104528. | 4.4 | 33 |
| 67 | 2-Isoxazol-3-Phenyltropane Derivatives of Cocaine: Molecular and Atypical System Effects at the Dopamine Transporter. Journal of Pharmacology and Experimental Therapeutics, 2014, 349, 297-309. | 2.5 | 28 |
| 68 | Chronic theophylline treatment in vivo increases high affinity adenosine A1 receptor binding and sensitivity to exogenous adenosine in the <i>in vitro</i> hippocampal slice. Brain Research, 1991, 542, 55-62. | 2.2 | 21 |
| 69 | Neuropeptide FF inhibition of morphine effects in the rat hippocampus. Brain Research, 1997, 750, 81-86. | 2.2 | 21 |
| 70 | Altered Corticolimbic Control of the Nucleus Accumbens by Long-term 9 -Tetrahydrocannabinol Exposure. Biological Psychiatry, 2020, 87, 619-631. | 1.3 | 20 |
| 71 | Positive Allosteric Modulation of the 5-HT _{1A} Receptor by Indole-Based Synthetic Cannabinoids Abused by Humans. ACS Chemical Neuroscience, 2020, 11, 1400-1405. | 3.5 | 19 |
| 72 | Decreased parvalbumin immunoreactivity in the cortex and striatum of mice lacking the CB1 receptor. Synapse, 2011, 65, 827-831. | 1.2 | 18 |

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|----|---|-----|-----------|
| 73 | Pharmacological Characterization of a Dopamine Transporter Ligand That Functions as a Cocaine Antagonist. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 348, 106-115. | 2.5 | 17 |
| 74 | Analogues of JHU75528, a PET ligand for imaging of cerebral cannabinoid receptors (CB1): Development of ligands with optimized lipophilicity and binding affinity. <i>European Journal of Medicinal Chemistry</i> , 2009, 44, 593-608. | 5.5 | 16 |
| 75 | Cannabinoid-1 receptor gene deletion has a compartment-specific affect on the dendritic and axonal availability of μ -opioid receptors and on dopamine axons in the mouse nucleus accumbens. <i>Synapse</i> , 2010, 64, 886-897. | 1.2 | 15 |
| 76 | Attenuated response to methamphetamine sensitization and deficits in motor learning and memory after selective deletion of β -catenin in dopamine neurons. <i>Learning and Memory</i> , 2012, 19, 341-350. | 1.3 | 15 |
| 77 | Adenosine Involvement in Kindled Seizures. <i>Advances in Behavioral Biology</i> , 1990, , 423-440. | 0.2 | 15 |
| 78 | Striatal Rgs4 regulates feeding and susceptibility to diet-induced obesity. <i>Molecular Psychiatry</i> , 2020, 25, 2058-2069. | 7.9 | 14 |
| 79 | Effects of local anesthesia on persistence of peripherally induced postural asymmetries in rats.. <i>Behavioral Neuroscience</i> , 1983, 97, 921-927. | 1.2 | 12 |
| 80 | Blockade of β -cell KATP channels by the endocannabinoid, 2-arachidonoylglycerol. <i>Biochemical and Biophysical Research Communications</i> , 2012, 423, 13-18. | 2.1 | 12 |
| 81 | Cannabinoid disruption of learning mechanisms involved in reward processing. <i>Learning and Memory</i> , 2018, 25, 435-445. | 1.3 | 12 |
| 82 | Atropine slows olfactory bulb kindling while diminished cholinergic innervation does not. <i>Brain Research Bulletin</i> , 1988, 20, 203-209. | 3.0 | 10 |
| 83 | Impairment of Synaptic Plasticity by Cannabis, Δ^9 -THC, and Synthetic Cannabinoids. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2021, 11, a039743. | 6.2 | 10 |
| 84 | Lateral habenula cannabinoid CB1 receptor involvement in drug-associated impulsive behavior. <i>Neuropharmacology</i> , 2021, 192, 108604. | 4.1 | 10 |
| 85 | Queer Currents, Steady Rhythms, and Drunken DA Neurons. Focus on α -Hyperpolarization-Activated Cation Current (I _h) Is an Ethanol Target in Midbrain Dopamine Neurons of Mice. <i>Journal of Neurophysiology</i> , 2006, 95, 585-586. | 1.8 | 9 |
| 86 | Effects of Withdrawal from Cocaine Self-Administration on Rat Orbitofrontal Cortex Parvalbumin Neurons Expressing <i>Cre</i> recombinase: Sex-Dependent Changes in Neuronal Function and Unaltered Serotonin Signaling. <i>ENeuro</i> , 2021, 8, ENEURO.0017-21.2021. | 1.9 | 9 |
| 87 | Effects of manipulating stimulation intensity and duration on fixation of a peripherally-induced spinal reflex alteration in rats. <i>Physiology and Behavior</i> , 1982, 29, 1039-1044. | 2.1 | 7 |
| 88 | An <i>in vitro</i> model of human neocortical development using pluripotent stem cells: cocaine-induced cytoarchitectural alterations. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 1397-405. | 2.4 | 7 |
| 89 | Dopaminergic neurons derived from BG01V2, a variant of human embryonic stem cell line BG01. <i>Restorative Neurology and Neuroscience</i> , 2008, 26, 447-58. | 0.7 | 7 |
| 90 | Enduring Loss of Serotonergic Control of Orbitofrontal Cortex Function Following Contingent and Noncontingent Cocaine Exposure. <i>Cerebral Cortex</i> , 2017, 27, 5463-5476. | 2.9 | 6 |

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|-----|---|-----|-----------|
| 91 | Muscarinic Acetylcholine M ₂ Receptors Regulate Lateral Habenula Neuron Activity and Control Cocaine Seeking Behavior. <i>Journal of Neuroscience</i> , 2022, 42, 5552-5563. | 3.6 | 5 |
| 92 | Release of endogenous adenosine does not mediate electrophysiological responses to morphine in the hippocampus in vitro. <i>Neuropharmacology</i> , 1990, 29, 1131-1139. | 4.1 | 4 |
| 93 | Adenosine Modulation of Glutamate-Mediated Synaptic Transmission in the Hippocampus. , 1993, , 104-126. | | 4 |
| 94 | Delta opioid mediated-increases in hippocampal excitability occur via activation of a delta1-like receptor. <i>Regulatory Peptides</i> , 1994, 54, 167-168. | 1.9 | 3 |
| 95 | Reversing anterior insular cortex neuronal hypoexcitability attenuates compulsive behavior in adolescent rats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121247119. | 7.1 | 3 |
| 96 | Characterization of Histaminergic H3 Receptors in Intraocular Tuberomammillary Transplants Containing Histaminergic Neurons. <i>Experimental Neurology</i> , 1995, 136, 12-21. | 4.1 | 2 |
| 97 | Functional localization of mu and delta enkephalin-mediated inhibition of GABA release to nerve terminals in the hippocampus. <i>Regulatory Peptides</i> , 1994, 53, S177-S178. | 1.9 | 1 |
| 98 | Visualizing Cannabinoid Effects Using Brain Slice Imaging and Electrophysiological Approaches. , 2006, 123, 105-112. | | 1 |
| 99 | Man-Made Marijuana. , 2005, , . | | 1 |
| 100 | Correction to α -2-Isoxazol-3-Phenyltropane Derivatives of Cocaine: Molecular and Atypical System Effects at the Dopamine Transporter. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 349, 534-534. | 2.5 | 1 |
| 101 | Cholecystokinin (CCK) inhibits excitation of pyramidal neurons by non-peptide, but not peptide, opioid agonists in the rat hippocampus. <i>Regulatory Peptides</i> , 1994, 54, 195-196. | 1.9 | 0 |
| 102 | Cocaine Regulates Endocannabinoids-Containing Extracellular Vesicles Release in Ventral Tegmental Area via Sigma-1 Receptor and ADP-Ribosylation Factor 6 Pathway. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO1-1-79. | 0.0 | 0 |
| 103 | Novel sumanirole bivalent analogues as potent dopamine D2 receptor G α protein biased agonists. <i>FASEB Journal</i> , 2019, 33, 667.11. | 0.5 | 0 |