

Charles D Nichols

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

4,923
citations

136950

32
h-index

161849

54
g-index

78
all docs

78
docs citations

78
times ranked

6324
citing authors

#	ARTICLE	IF	CITATIONS
1	From psychiatry to neurology: Psychedelics as prospective therapeutics for neurodegenerative disorders. <i>Journal of Neurochemistry</i> , 2022, 162, 89-108.	3.9	27
2	Lysergic acid diethylamide induces increased signalling entropy in rats'™ prefrontal cortex. <i>Journal of Neurochemistry</i> , 2022, 162, 9-23.	3.9	6
3	Pharmahuasca and DMT Rescue ROS Production and Differentially Expressed Genes Observed after Predator and Psychosocial Stress: Relevance to Human PTSD. <i>ACS Chemical Neuroscience</i> , 2022, 13, 257-274.	3.5	11
4	Herpes Simplex Virus-1 Induced Serotonin-Associated Metabolic Pathways Correlate With Severity of Virus- and Inflammation-Associated Ocular Disease. <i>Frontiers in Microbiology</i> , 2022, 13, 859866.	3.5	0
5	Psychedelics and Anti-inflammatory Activity in Animal Models. <i>Current Topics in Behavioral Neurosciences</i> , 2022, , 229-245.	1.7	6
6	A Standardized, Scalable Method to Quantify in Vitro Invasiveness. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
7	Differential Regulation of Inflammatory Responses Following 5-HT ₂ Receptor Activation in Pulmonary Tissues. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
8	Structure-Activity Relationship Analysis of Psychedelics in a Rat Model of Asthma Reveals the Anti-Inflammatory Pharmacophore. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 488-502.	4.9	27
9	Psychedelic Drugs. , 2021, , 1-8.		0
10	Serotonin 5-HT _{2A} receptor activity mediates adipocyte differentiation through control of adipogenic gene expression. <i>Scientific Reports</i> , 2021, 11, 19714.	3.3	3
11	Psychedelic Drugs. , 2021, , 1313-1320.		0
12	Safety, tolerability, pharmacokinetics, and pharmacodynamics of low dose lysergic acid diethylamide (LSD) in healthy older volunteers. <i>Psychopharmacology</i> , 2020, 237, 841-853.	3.1	83
13	Psychedelics, but Not Ketamine, Produce Persistent Antidepressant-like Effects in a Rodent Experimental System for the Study of Depression. <i>ACS Chemical Neuroscience</i> , 2020, 11, 864-871.	3.5	114
14	Classic psychedelics as therapeutics for psychiatric disorders. <i>Handbook of Behavioral Neuroscience</i> , 2020, 31, 959-966.	0.7	4
15	One Dose of Psilocybin in Late Adolescence Mitigates Deleterious Effects of Developmental Stress on Cognition and Behavioral Despair in Adult Female Rats. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	7
16	Microdosing psychedelics: More questions than answers? An overview and suggestions for future research. <i>Journal of Psychopharmacology</i> , 2019, 33, 1039-1057.	4.0	121
17	5-HT ₂ receptor activation alleviates airway inflammation and structural remodeling in a chronic mouse asthma model. <i>Life Sciences</i> , 2019, 236, 116790.	4.3	33
18	Activation of 5-HT ₂ Receptors Reduces Inflammation in Vascular Tissue and Cholesterol Levels in High-Fat Diet-Fed Apolipoprotein E Knockout Mice. <i>Scientific Reports</i> , 2019, 9, 13444.	3.3	27

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19	Population Survey Data Informing the Therapeutic Potential of Classic and Novel Phenethylamine, Tryptamine, and Lysergamide Psychedelics. <i>Frontiers in Psychiatry</i> , 2019, 10, 896.	2.6	28
20	Psychedelics Improve the Mental Health of Rats. <i>FASEB Journal</i> , 2019, 33, 666.1.	0.5	2
21	Elucidating Anti-inflammatory Signaling Paradigm at the 5-HT _{2A} Receptor. <i>FASEB Journal</i> , 2019, 33, 503.12.	0.5	1
22	Psychedelics as anti-inflammatory agents. <i>International Review of Psychiatry</i> , 2018, 30, 363-375.	2.8	122
23	Neurocytometry: Flow Cytometric Sorting of Specific Neuronal Populations from Human and Rodent Brain. <i>ACS Chemical Neuroscience</i> , 2017, 8, 356-367.	3.5	29
24	Psychedelic Drugs in Biomedicine. <i>Trends in Pharmacological Sciences</i> , 2017, 38, 992-1005.	8.7	113
25	The Effects of Hallucinogens on Gene Expression. <i>Current Topics in Behavioral Neurosciences</i> , 2017, 36, 137-158.	1.7	33
26	Psychedelics as Medicines: An Emerging New Paradigm. <i>Clinical Pharmacology and Therapeutics</i> , 2017, 101, 209-219.	4.7	202
27	Schizophrenia Modeling Using Lysergic Acid Diethylamide. , 2016, , 859-865.		1
28	Psychedelics Recruit Multiple Cellular Types and Produce Complex Transcriptional Responses Within the Brain. <i>EBioMedicine</i> , 2016, 11, 262-277.	6.1	53
29	Serotonin 5-HT ₂ receptor activation prevents allergic asthma in a mouse model. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L191-L198.	2.9	67
30	Visualization of the Serotonin System in <i>Drosophila</i> Brain: Immunofluorescence and Confocal Microscopy. <i>Neuromethods</i> , 2015, , 191-203.	0.3	0
31	Allergic Asthma and Serotonin 5-HT ₂ Receptor Activation: New Therapeutic Directions. <i>FASEB Journal</i> , 2015, 29, 775.8.	0.5	0
32	Hallucinogens Activate a Specific Population of Neurons in the Cortex. <i>FASEB Journal</i> , 2015, 29, 931.14.	0.5	0
33	Chronic LSD alters gene expression profiles in the mPFC relevant to schizophrenia. <i>Neuropharmacology</i> , 2014, 83, 1-8.	4.1	49
34	DREADDs in <i>Drosophila</i> : A Pharmacogenetic Approach for Controlling Behavior, Neuronal Signaling, and Physiology in the Fly. <i>Cell Reports</i> , 2013, 4, 1049-1059.	6.4	40
35	5-HT stimulation of heart rate in <i>Drosophila</i> does not act through cAMP as revealed by pharmacogenetics. <i>Journal of Applied Physiology</i> , 2013, 115, 1656-1665.	2.5	22
36	RNA-binding ability of FUS regulates neurodegeneration, cytoplasmic mislocalization and incorporation into stress granules associated with FUS carrying ALS-linked mutations. <i>Human Molecular Genetics</i> , 2013, 22, 1193-1205.	2.9	187

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37	Serotonin 5-HT _{2A} Receptor Activation Blocks TNF- α Mediated Inflammation In Vivo. PLoS ONE, 2013, 8, e75426.	2.5	132
38	Serotonin receptors modulate the response to cocaine and methamphetamine in adult Drosophila. FASEB Journal, 2013, 27, .	0.5	0
39	Serotonin Receptors and Neurotransmission. , 2012, , 83-86.		0
40	Methods to Assay Drosophila; Behavior. Journal of Visualized Experiments, 2012, , .	0.3	178
41	A Triple <sc>Arg</sc> Motif Mediates α ₂ <sc>B</sc>â€Adrenergic</sc> Receptor Interaction with <sc>Sec</sc>24<sc>C</sc>/D and Export. Traffic, 2012, 13, 857-868.	2.7	55
42	Insulin-producing cells in the brain of adult Drosophila are regulated by the serotonin 5-HT _{1A} receptor. Cellular and Molecular Life Sciences, 2012, 69, 471-484.	5.4	100
43	Serotonin 5â€HT _{2A} receptor activation potently inhibits TNFâ€ α mediated inflammation in vivo, and blocks the development of asthma. FASEB Journal, 2012, 26, 1120.1.	0.5	0
44	A Novel ER Export Motif Modulates the ERâ€toâ€Cell Surface Traffic of α _{2B} â€Adrenergic Receptor. FASEB Journal, 2012, 26, 837.1.	0.5	0
45	Chronic LSD administration produces changes in mPFC gene and protein expression relevant to schizophrenia, as determined by RNAâ€Seq and DIGE. FASEB Journal, 2012, 26, .	0.5	0
46	An animal model of schizophrenia based on chronic LSD administration: Old idea, new results. Neuropharmacology, 2011, 61, 503-512.	4.1	53
47	Serotonin receptor activity is necessary for olfactory learning and memory in Drosophila melanogaster. Neuroscience, 2011, 192, 372-381.	2.3	67
48	Human Disease Models in<i>Drosophila melanogaster</i> and the Role of the Fly in Therapeutic Drug Discovery. Pharmacological Reviews, 2011, 63, 411-436.	16.0	849
49	The Serotonin 5-HT ₇ Dro Receptor Is Expressed in the Brain of Drosophila, and Is Essential for Normal Courtship and Mating. PLoS ONE, 2011, 6, e20800.	2.5	96
50	Serotonin 5- Receptor Function as a Contributing Factor to Both Neuropsychiatric and Cardiovascular Diseases. Cardiovascular Psychiatry and Neurology, 2009, 2009, 1-8.	0.8	31
51	Engineered G-protein coupled receptors are powerful tools to investigate biological processes and behaviors. Frontiers in Molecular Neuroscience, 2009, 2, 16.	2.9	59
52	Anterograde Trafficking of G Protein-Coupled Receptors: Function of the C-Terminal F(X) ₆ LL Motif in Export from the Endoplasmic Reticulum. Molecular Pharmacology, 2009, 75, 751-761.	2.3	67
53	Serotonin 5-HT ₂ and 5-HT _{1A} -like receptors differentially modulate aggressive behaviors in Drosophila melanogaster. Neuroscience, 2009, 158, 1292-1300.	2.3	120
54	Serotonin 5â€HT _{1A} â€like, 5â€HT ₂ , and 5â€HT ₇ Receptors Modulate Learning and Memory in Drosophila. FASEB Journal, 2009, 23, 586.11.	0.5	1

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55	Serotonin 5-HT _{2A} receptor activity mediates adipocyte differentiation. <i>FASEB Journal</i> , 2009, 23, 941-5.	0.5	1
56	Origins and Effects of Extracellular α -synuclein: Implications in Parkinson's Disease. <i>Journal of Molecular Neuroscience</i> , 2008, 34, 17-22.	2.3	145
57	Serotonin Receptors. <i>Chemical Reviews</i> , 2008, 108, 1614-1641.	47.7	751
58	Nuclear translocation of p65 NF- κ B is sufficient for VCAM-1, but not ICAM-1, expression in TNF-stimulated smooth muscle cells: Differential requirement for PARP-1 expression and interaction. <i>Cellular Signalling</i> , 2008, 20, 186-194.	3.6	85
59	Serotonin 5-Hydroxytryptamine _{2A} Receptor Activation Suppresses Tumor Necrosis Factor- α -Induced Inflammation with Extraordinary Potency. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 327, 316-323.	2.5	151
60	The 5-HT ₇ Serotonin Receptor: Expression in the CNS and Function. <i>FASEB Journal</i> , 2008, 22, 1125.2.	0.5	0
61	5-HT ₂ receptors in <i>Drosophila</i> are expressed in the brain and modulate aspects of circadian behaviors. <i>Developmental Neurobiology</i> , 2007, 67, 752-763.	3.0	67
62	Identification of neuroprotective compounds of <i>Caenorhabditis elegans</i> dopaminergic neurons against 6-OHDA. <i>Journal of Molecular Neuroscience</i> , 2007, 31, 127-137.	2.3	46
63	<i>Drosophila melanogaster</i> neurobiology, neuropharmacology, and how the fly can inform central nervous system drug discovery. , 2006, 112, 677-700.		123
64	Alternative splicing removes an Ets interaction domain from Lozenge during <i>Drosophila</i> eye development. <i>Development Genes and Evolution</i> , 2005, 215, 423-435.	0.9	17
65	Serotonin Receptors and Neurotransmission. , 2004, , 93-VII.		0
66	Molecular genetic responses to lysergic acid diethylamide include transcriptional activation of MAP kinase phosphatase-1, C/EBP-beta and ILAD-1, a novel gene with homology to arrestins. <i>Journal of Neurochemistry</i> , 2004, 90, 576-584.	3.9	52
67	Dynamic changes in prefrontal cortex gene expression following lysergic acid diethylamide administration. <i>Molecular Brain Research</i> , 2003, 111, 182-188.	2.3	72
68	Hallucinogens and <i>Drosophila</i> : linking serotonin receptor activation to behavior. <i>Neuroscience</i> , 2002, 115, 979-984.	2.3	34
69	A Single Dose of Lysergic Acid Diethylamide Influences Gene Expression Patterns within the Mammalian Brain. <i>Neuropsychopharmacology</i> , 2002, 26, 634-642.	5.4	129
70	Yan regulates Lozenge during <i>Drosophila</i> eye development. <i>Development Genes and Evolution</i> , 2002, 212, 267-276.	0.9	16
71	Characterization of a hypermutable strain of <i>Drosophila simulans</i> . <i>Cellular and Molecular Life Sciences</i> , 1998, 54, 1283-1290.	5.4	6
72	Preface to the special issue "Psychedelics and Neurochemistry". <i>Journal of Neurochemistry</i> , 0, , .	3.9	0