

# Charles D Nichols

## List of Publications by Year in descending order

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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	Human Disease Models in <i>Drosophila melanogaster</i> and the Role of the Fly in Therapeutic Drug Discovery. <i>Pharmacological Reviews</i> , 2011, 63, 411-436.	16.0	849
2	Serotonin Receptors. <i>Chemical Reviews</i> , 2008, 108, 1614-1641.	47.7	751
3	Psychedelics as Medicines: An Emerging New Paradigm. <i>Clinical Pharmacology and Therapeutics</i> , 2017, 101, 209-219.	4.7	202
4	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
5	Methods to Assay <i>Drosophila</i> Behavior. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	178
6	Serotonin 5-Hydroxytryptamine <sub>2A</sub> Receptor Activation Suppresses Tumor Necrosis Factor- $\alpha$ -Induced Inflammation with Extraordinary Potency. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 327, 316-323.	2.5	151
7	Origins and Effects of Extracellular $\alpha$ -synuclein: Implications in Parkinson's Disease. <i>Journal of Molecular Neuroscience</i> , 2008, 34, 17-22.	2.3	145
8	Serotonin 5-HT <sub>2A</sub> Receptor Activation Blocks TNF- $\alpha$ Mediated Inflammation In Vivo. <i>PLoS ONE</i> , 2013, 8, e75426.	2.5	132
9	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
10	<i>Drosophila melanogaster</i> neurobiology, neuropharmacology, and how the fly can inform central nervous system drug discovery. , 2006, 112, 677-700.		123
11	Psychedelics as anti-inflammatory agents. <i>International Review of Psychiatry</i> , 2018, 30, 363-375.	2.8	122
12	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
13	Serotonin 5-HT <sub>2</sub> and 5-HT <sub>1A</sub> -like receptors differentially modulate aggressive behaviors in <i>Drosophila melanogaster</i> . <i>Neuroscience</i> , 2009, 158, 1292-1300.	2.3	120
14	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
15	Psychedelic Drugs in Biomedicine. <i>Trends in Pharmacological Sciences</i> , 2017, 38, 992-1005.	8.7	113
16	Insulin-producing cells in the brain of adult <i>Drosophila</i> are regulated by the serotonin 5-HT <sub>1A</sub> receptor. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 471-484.	5.4	100
17	The Serotonin 5-HT <sub>7</sub> Dro Receptor Is Expressed in the Brain of <i>Drosophila</i> , and Is Essential for Normal Courtship and Mating. <i>PLoS ONE</i> , 2011, 6, e20800.	2.5	96
18	Nuclear translocation of p65 NF- $\kappa$ 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

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19	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
20	Dynamic changes in prefrontal cortex gene expression following lysergic acid diethylamide administration. <i>Molecular Brain Research</i> , 2003, 111, 182-188.	2.3	72
21	5-HT <sub>2</sub> 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
22	Anterograde Trafficking of G Protein-Coupled Receptors: Function of the C-Terminal F(X) <sub>6</sub> LL Motif in Export from the Endoplasmic Reticulum. <i>Molecular Pharmacology</i> , 2009, 75, 751-761.	2.3	67
23	Serotonin receptor activity is necessary for olfactory learning and memory in <i>Drosophila melanogaster</i> . <i>Neuroscience</i> , 2011, 192, 372-381.	2.3	67
24	Serotonin 5-HT <sub>2</sub> 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
25	Engineered G-protein coupled receptors are powerful tools to investigate biological processes and behaviors. <i>Frontiers in Molecular Neuroscience</i> , 2009, 2, 16.	2.9	59
26	A Triple Arg Motif Mediates $\beta$ -Adrenergic Receptor Interaction with Sec24C/D and Export. <i>Traffic</i> , 2012, 13, 857-868.	2.7	55
27	An animal model of schizophrenia based on chronic LSD administration: Old idea, new results. <i>Neuropharmacology</i> , 2011, 61, 503-512.	4.1	53
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	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
30	Chronic LSD alters gene expression profiles in the mPFC relevant to schizophrenia. <i>Neuropharmacology</i> , 2014, 83, 1-8.	4.1	49
31	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
32	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
33	Hallucinogens and <i>Drosophila</i> : linking serotonin receptor activation to behavior. <i>Neuroscience</i> , 2002, 115, 979-984.	2.3	34
34	The Effects of Hallucinogens on Gene Expression. <i>Current Topics in Behavioral Neurosciences</i> , 2017, 36, 137-158.	1.7	33
35	5-HT <sub>2</sub> receptor activation alleviates airway inflammation and structural remodeling in a chronic mouse asthma model. <i>Life Sciences</i> , 2019, 236, 116790.	4.3	33
36	Serotonin 5- Receptor Function as a Contributing Factor to Both Neuropsychiatric and Cardiovascular Diseases. <i>Cardiovascular Psychiatry and Neurology</i> , 2009, 2009, 1-8.	0.8	31

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37	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
38	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
39	Activation of 5-HT <sub>2</sub> 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
40	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
41	From psychiatry to neurology: Psychedelics as prospective therapeutics for neurodegenerative disorders. <i>Journal of Neurochemistry</i> , 2022, 162, 89-108.	3.9	27
42	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
43	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
44	Yan regulates Lozenge during <i>Drosophila</i> eye development. <i>Development Genes and Evolution</i> , 2002, 212, 267-276.	0.9	16
45	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
46	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
47	Characterization of a hypermutable strain of <i>Drosophila simulans</i> . <i>Cellular and Molecular Life Sciences</i> , 1998, 54, 1283-1290.	5.4	6
48	Lysergic acid diethylamide induces increased signalling entropy in rats' prefrontal cortex. <i>Journal of Neurochemistry</i> , 2022, 162, 9-23.	3.9	6
49	Psychedelics and Anti-inflammatory Activity in Animal Models. <i>Current Topics in Behavioral Neurosciences</i> , 2022, , 229-245.	1.7	6
50	Classic psychedelics as therapeutics for psychiatric disorders. <i>Handbook of Behavioral Neuroscience</i> , 2020, 31, 959-966.	0.7	4
51	Serotonin 5-HT <sub>2A</sub> receptor activity mediates adipocyte differentiation through control of adipogenic gene expression. <i>Scientific Reports</i> , 2021, 11, 19714.	3.3	3
52	Psychedelics Improve the Mental Health of Rats. <i>FASEB Journal</i> , 2019, 33, 666.1.	0.5	2
53	Schizophrenia Modeling Using Lysergic Acid Diethylamide. , 2016, , 859-865.		1
54	Serotonin 5-HT <sub>1A</sub> -like, 5-HT <sub>2</sub> , and 5-HT <sub>7</sub> Receptors Modulate Learning and Memory in <i>Drosophila</i> . <i>FASEB Journal</i> , 2009, 23, 586.11.	0.5	1

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55	Serotonin 5-HT <sub>2A</sub> receptor activity mediates adipocyte differentiation. <i>FASEB Journal</i> , 2009, 23, 941.5.	0.5	1
56	Elucidating Anti-Inflammatory Signaling Paradigm at the 5-HT <sub>2A</sub> Receptor. <i>FASEB Journal</i> , 2019, 33, 503.12.	0.5	1
57	Serotonin Receptors and Neurotransmission. , 2004, , 93-VII.		0
58	Serotonin Receptors and Neurotransmission. , 2012, , 83-86.		0
59	Psychedelic Drugs. , 2021, , 1-8.		0
60	The 5-HT <sub>7</sub> Serotonin Receptor: Expression in the CNS and Function. <i>FASEB Journal</i> , 2008, 22, 1125.2.	0.5	0
61	Serotonin 5-HT <sub>2A</sub> receptor activation potently inhibits TNF $\alpha$ mediated inflammation in vivo, and blocks the development of asthma. <i>FASEB Journal</i> , 2012, 26, 1120.1.	0.5	0
62	A Novel ER Export Motif Modulates the ER-to-Cell Surface Traffic of $\beta$ -2 Adrenergic Receptor. <i>FASEB Journal</i> , 2012, 26, 837.1.	0.5	0
63	Chronic LSD administration produces changes in mPFC gene and protein expression relevant to schizophrenia, as determined by RNA-seq and DIGE. <i>FASEB Journal</i> , 2012, 26, .	0.5	0
64	Serotonin receptors modulate the response to cocaine and methamphetamine in adult <i>Drosophila</i> . <i>FASEB Journal</i> , 2013, 27, .	0.5	0
65	Visualization of the Serotonin System in <i>Drosophila</i> Brain: Immunofluorescence and Confocal Microscopy. <i>Neuromethods</i> , 2015, , 191-203.	0.3	0
66	Allergic Asthma and Serotonin 5-HT <sub>2</sub> Receptor Activation: New Therapeutic Directions. <i>FASEB Journal</i> , 2015, 29, 775.8.	0.5	0
67	Hallucinogens Activate a Specific Population of Neurons in the Cortex. <i>FASEB Journal</i> , 2015, 29, 931.14.	0.5	0
68	Psychedelic Drugs. , 2021, , 1313-1320.		0
69	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
70	A Standardized, Scalable Method to Quantify in Vitro Invasiveness. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
71	Differential Regulation of Inflammatory Responses Following 5-HT <sub>2</sub> Receptor Activation in Pulmonary Tissues. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
72	Preface to the special issue "Psychedelics and Neurochemistry". <i>Journal of Neurochemistry</i> , 0, , .	3.9	0