

Charles D Nichols

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

3,550
citations

31
h-index

59
g-index

78
ext. papers

4,304
ext. citations

5.2
avg, IF

5.94
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 67 | Human disease models in <i>Drosophila melanogaster</i> and the role of the fly in therapeutic drug discovery. <i>Pharmacological Reviews</i> , 2011 , 63, 411-36 | 22.5 | 616 |
| 66 | Serotonin receptors. <i>Chemical Reviews</i> , 2008 , 108, 1614-41 | 68.1 | 597 |
| 65 | 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, 1193-205 | 5.6 | 149 |
| 64 | Methods to assay <i>Drosophila</i> behavior. <i>Journal of Visualized Experiments</i> , 2012 , | 1.6 | 129 |
| 63 | Origins and effects of extracellular alpha-synuclein: implications in Parkinson's disease. <i>Journal of Molecular Neuroscience</i> , 2008 , 34, 17-22 | 3.3 | 127 |
| 62 | Psychedelics as Medicines: An Emerging New Paradigm. <i>Clinical Pharmacology and Therapeutics</i> , 2017 , 101, 209-219 | 6.1 | 126 |
| 61 | Serotonin 5-hydroxytryptamine(2A) receptor activation suppresses tumor necrosis factor-alpha-induced inflammation with extraordinary potency. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 327, 316-23 | 4.7 | 111 |
| 60 | <i>Drosophila melanogaster</i> neurobiology, neuropharmacology, and how the fly can inform central nervous system drug discovery 2006 , 112, 677-700 | | 109 |
| 59 | Serotonin 5-HT(2) and 5-HT(1A)-like receptors differentially modulate aggressive behaviors in <i>Drosophila melanogaster</i> . <i>Neuroscience</i> , 2009 , 158, 1292-300 | 3.9 | 99 |
| 58 | Serotonin 5-HT _{2A} receptor activation blocks TNF- α -mediated inflammation in vivo. <i>PLoS ONE</i> , 2013 , 8, e75426 | 3.7 | 93 |
| 57 | A single dose of lysergic acid diethylamide influences gene expression patterns within the mammalian brain. <i>Neuropsychopharmacology</i> , 2002 , 26, 634-42 | 8.7 | 88 |
| 56 | Insulin-producing cells in the brain of adult <i>Drosophila</i> are regulated by the serotonin 5-HT _{1A} receptor. <i>Cellular and Molecular Life Sciences</i> , 2012 , 69, 471-84 | 10.3 | 84 |
| 55 | Nuclear translocation of p65 NF-kappaB 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, 186-94 | 4.9 | 80 |
| 54 | Psychedelic Drugs in Biomedicine. <i>Trends in Pharmacological Sciences</i> , 2017 , 38, 992-1005 | 13.2 | 75 |
| 53 | The serotonin 5-HT ₇ 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 | 3.7 | 70 |
| 52 | Anterograde trafficking of G protein-coupled receptors: function of the C-terminal F(X) ₆ LL motif in export from the endoplasmic reticulum. <i>Molecular Pharmacology</i> , 2009 , 75, 751-61 | 4.3 | 61 |
| 51 | Microdosing psychedelics: More questions than answers? An overview and suggestions for future research. <i>Journal of Psychopharmacology</i> , 2019 , 33, 1039-1057 | 4.6 | 60 |

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| 50 | 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, 752-63 | 3.2 | 57 |
| 49 | Dynamic changes in prefrontal cortex gene expression following lysergic acid diethylamide administration. <i>Molecular Brain Research</i> , 2003 , 111, 182-8 | | 55 |
| 48 | Psychedelics as anti-inflammatory agents. <i>International Review of Psychiatry</i> , 2018 , 30, 363-375 | 3.6 | 49 |
| 47 | A triple arg motif mediates 5-HT _{2B} -adrenergic receptor interaction with Sec24C/D and export. <i>Traffic</i> , 2012 , 13, 857-68 | 5.7 | 49 |
| 46 | Serotonin receptor activity is necessary for olfactory learning and memory in <i>Drosophila melanogaster</i> . <i>Neuroscience</i> , 2011 , 192, 372-81 | 3.9 | 48 |
| 45 | Engineered G-protein Coupled Receptors are Powerful Tools to Investigate Biological Processes and Behaviors. <i>Frontiers in Molecular Neuroscience</i> , 2009 , 2, 16 | 6.1 | 48 |
| 44 | Serotonin 5-HT _{2A} receptor activation prevents allergic asthma in a mouse model. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 308, L191-8 | 5.8 | 43 |
| 43 | Safety, tolerability, pharmacokinetics, and pharmacodynamics of low dose lysergic acid diethylamide (LSD) in healthy older volunteers. <i>Psychopharmacology</i> , 2020 , 237, 841-853 | 4.7 | 42 |
| 42 | An animal model of schizophrenia based on chronic LSD administration: old idea, new results. <i>Neuropharmacology</i> , 2011 , 61, 503-12 | 5.5 | 41 |
| 41 | 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, 576-84 | 6 | 40 |
| 40 | 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 | 5.7 | 39 |
| 39 | Chronic LSD alters gene expression profiles in the mPFC relevant to schizophrenia. <i>Neuropharmacology</i> , 2014 , 83, 1-8 | 5.5 | 36 |
| 38 | Identification of neuroprotective compounds of <i>Caenorhabditis elegans</i> dopaminergic neurons against 6-OHDA. <i>Journal of Molecular Neuroscience</i> , 2007 , 31, 127-37 | 3.3 | 36 |
| 37 | DREADDs in <i>Drosophila</i> : a pharmacogenetic approach for controlling behavior, neuronal signaling, and physiology in the fly. <i>Cell Reports</i> , 2013 , 4, 1049-59 | 10.6 | 31 |
| 36 | Hallucinogens and <i>Drosophila</i> : linking serotonin receptor activation to behavior. <i>Neuroscience</i> , 2002 , 115, 979-84 | 3.9 | 31 |
| 35 | Psychedelics Recruit Multiple Cellular Types and Produce Complex Transcriptional Responses Within the Brain. <i>EBioMedicine</i> , 2016 , 11, 262-277 | 8.8 | 26 |
| 34 | Serotonin 5-HT _{2A} Receptor Function as a Contributing Factor to Both Neuropsychiatric and Cardiovascular Diseases. <i>Cardiovascular Psychiatry and Neurology</i> , 2009 , 2009, 475108 | | 26 |
| 33 | Neurocytometry: Flow Cytometric Sorting of Specific Neuronal Populations from Human and Rodent Brain. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 356-367 | 5.7 | 22 |

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| 32 | 5-HT receptor activation alleviates airway inflammation and structural remodeling in a chronic mouse asthma model. <i>Life Sciences</i> , 2019 , 236, 116790 | 6.8 | 21 |
| 31 | The Effects of Hallucinogens on Gene Expression. <i>Current Topics in Behavioral Neurosciences</i> , 2018 , 36, 137-158 | 3.4 | 19 |
| 30 | 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, 1656-65 | 3.7 | 18 |
| 29 | Activation of 5-HT 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 | 4.9 | 16 |
| 28 | Alternative splicing removes an Ets interaction domain from Lozenge during <i>Drosophila</i> eye development. <i>Development Genes and Evolution</i> , 2005 , 215, 423-35 | 1.8 | 16 |
| 27 | Yan regulates Lozenge during <i>Drosophila</i> eye development. <i>Development Genes and Evolution</i> , 2002 , 212, 267-76 | 1.8 | 15 |
| 26 | Population Survey Data Informing the Therapeutic Potential of Classic and Novel Phenethylamine, Tryptamine, and Lysergamide Psychedelics. <i>Frontiers in Psychiatry</i> , 2019 , 10, 896 | 5 | 14 |
| 25 | 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 | 5.9 | 9 |
| 24 | Characterization of a hypermutable strain of <i>Drosophila simulans</i> . <i>Cellular and Molecular Life Sciences</i> , 1998 , 54, 1283-90 | 10.3 | 6 |
| 23 | 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 | 0.9 | 5 |
| 22 | From psychiatry to neurology: Psychedelics as prospective therapeutics for neurodegenerative disorders. <i>Journal of Neurochemistry</i> , 2021 , | 6 | 5 |
| 21 | Classic psychedelics as therapeutics for psychiatric disorders. <i>Handbook of Behavioral Neuroscience</i> , 2020 , 31, 959-966 | 0.7 | 3 |
| 20 | 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 , | 5.7 | 2 |
| 19 | Lysergic acid diethylamide induces increased signalling entropy in rats'prefrontal cortex. <i>Journal of Neurochemistry</i> , 2021 , | 6 | 2 |
| 18 | Serotonin 5-HT receptor activity mediates adipocyte differentiation through control of adipogenic gene expression. <i>Scientific Reports</i> , 2021 , 11, 19714 | 4.9 | 2 |
| 17 | Elucidating Anti-Inflammatory Signaling Paradigm at the 5-HT _{2A} Receptor. <i>FASEB Journal</i> , 2019 , 33, 5031.3 | 1.3 | 1 |
| 16 | Psychedelics Improve the Mental Health of Rats. <i>FASEB Journal</i> , 2019 , 33, 666.1 | 0.9 | 1 |
| 15 | Serotonin 5-HT _{1A} -like, 5-HT ₂ , and 5-HT ₇ Receptors Modulate Learning and Memory in <i>Drosophila</i> . <i>FASEB Journal</i> , 2009 , 23, 586.11 | 0.9 | 1 |

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| 14 | Serotonin 5-HT _{2A} receptor activity mediates adipocyte differentiation. <i>FASEB Journal</i> , 2009 , 23, 941.5 | 0.9 | 1 |
| 13 | Schizophrenia Modeling Using Lysergic Acid Diethylamide 2016 , 859-865 | | 0 |
| 12 | Psychedelics and Anti-inflammatory Activity in Animal Models.. <i>Current Topics in Behavioral Neurosciences</i> , 2022 , 1 | 3.4 | 0 |
| 11 | Serotonin Receptors and Neurotransmission 2012 , 83-86 | | |
| 10 | Serotonin Receptors and Neurotransmission 2004 , 93-VII | | |
| 9 | The 5-HT ₇ Serotonin Receptor: Expression in the CNS and Function. <i>FASEB Journal</i> , 2008 , 22, 1125.2 | 0.9 | |
| 8 | Visualization of the Serotonin System in Drosophila Brain: Immunofluorescence and Confocal Microscopy. <i>Neuromethods</i> , 2015 , 191-203 | 0.4 | |
| 7 | Drosophila Models in Therapeutic Drug Discovery Related to Aging. <i>Healthy Ageing and Longevity</i> , 2015 , 213-225 | 0.5 | |
| 6 | DREADDs in Drosophila melanogaster. <i>Neuromethods</i> , 2015 , 147-158 | 0.4 | |
| 5 | Allergic Asthma and Serotonin 5-HT ₂ Receptor Activation: New Therapeutic Directions. <i>FASEB Journal</i> , 2015 , 29, 775.8 | 0.9 | |
| 4 | Hallucinogens Activate a Specific Population of Neurons in the Cortex. <i>FASEB Journal</i> , 2015 , 29, 931.14 | 0.9 | |
| 3 | Serotonin 5-HT _{2A} receptor activation potently inhibits TNF- α mediated inflammation in vivo, and blocks the development of asthma. <i>FASEB Journal</i> , 2012 , 26, 1120.1 | 0.9 | |
| 2 | A Novel ER Export Motif Modulates the ER-to-Cell Surface Traffic of β -Adrenergic Receptor. <i>FASEB Journal</i> , 2012 , 26, 837.1 | 0.9 | |
| 1 | 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 | 5.7 | |