

# Zachary Z Freyberg

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

3,236  
citations

236925

25  
h-index

161849

54  
g-index

70  
all docs

70  
docs citations

70  
times ranked

5064  
citing authors

#	ARTICLE	IF	CITATIONS
1	American Psychiatric Association practice guideline for the treatment of patients with Alzheimer's disease and other dementias. Second edition. American Journal of Psychiatry, 2007, 164, 5-56.	7.2	506
2	Roles of the Akt/GSK-3 and Wnt Signaling Pathways in Schizophrenia and Antipsychotic Drug Action. American Journal of Psychiatry, 2010, 167, 388-396.	7.2	254
3	Amphiphysin II (SH3P9; BIN1), a Member of the Amphiphysin/Rvs Family, Is Concentrated in the Cortical Cytomatrix of Axon Initial Segments and Nodes of Ranvier in Brain and around T Tubules in Skeletal Muscle. Journal of Cell Biology, 1997, 137, 1355-1367.	5.2	235
4	Intracellular Localization of Phospholipase D1 in Mammalian Cells. Molecular Biology of the Cell, 2001, 12, 943-955.	2.1	181
5	Increased localization of APP in mitochondria-associated ER membranes causes mitochondrial dysfunction in Alzheimer disease. EMBO Journal, 2017, 36, 3356-3371.	7.8	164
6	Signaling pathways in schizophrenia: emerging targets and therapeutic strategies. Trends in Pharmacological Sciences, 2010, 31, 381-390.	8.7	159
7	Mechanisms of amphetamine action illuminated through optical monitoring of dopamine synaptic vesicles in Drosophila brain. Nature Communications, 2016, 7, 10652.	12.8	97
8	Molecular pathophysiology of metabolic effects of antipsychotic medications. Trends in Endocrinology and Metabolism, 2014, 25, 593-600.	7.1	95
9	Phospholipase D2 Is Localized to the Rims of the Golgi Apparatus in Mammalian Cells. Molecular Biology of the Cell, 2002, 13, 3930-3942.	2.1	78
10	Transcriptional Alterations in Dorsolateral Prefrontal Cortex and Nucleus Accumbens Implicate Neuroinflammation and Synaptic Remodeling in Opioid Use Disorder. Biological Psychiatry, 2021, 90, 550-562.	1.3	76
11	'Slip, sliding away': phospholipase D and the Golgi apparatus. Trends in Cell Biology, 2003, 13, 540-546.	7.9	74
12	Dopamine-Mediated Autocrine Inhibitory Circuit Regulating Human Insulin Secretion in Vitro. Molecular Endocrinology, 2012, 26, 1757-1772.	3.7	74
13	Role for VGLUT2 in selective vulnerability of midbrain dopamine neurons. Journal of Clinical Investigation, 2018, 128, 774-788.	8.2	72
14	Neuronal Depolarization Drives Increased Dopamine Synaptic Vesicle Loading via VGLUT. Neuron, 2017, 95, 1074-1088.e7.	8.1	69
15	Expression of Amphiphysin I, an Autoantigen of Paraneoplastic Neurological Syndromes, in Breast Cancer. Molecular Medicine, 1998, 4, 29-39.	4.4	61
16	The membrane raft protein Flotillin-1 is essential in dopamine neurons for amphetamine-induced behavior in Drosophila. Molecular Psychiatry, 2013, 18, 824-833.	7.9	61
17	Three-Dimensional Analysis of Mitochondrial Crista Ultrastructure in a Patient with Leigh Syndrome by In Situ Cryoelectron Tomography. iScience, 2018, 6, 83-91.	4.1	60
18	Treatment of depression in HIV positive individuals: A critical review. International Review of Psychiatry, 2008, 20, 61-71.	2.8	56

#	ARTICLE	IF	CITATIONS
19	Intrinsic and Antipsychotic Drug-Induced Metabolic Dysfunction in Schizophrenia. <i>Frontiers in Neuroscience</i> , 2017, 11, 432.	2.8	55
20	New roles for dopamine D2 and D3 receptors in pancreatic beta cell insulin secretion. <i>Molecular Psychiatry</i> , 2020, 25, 2070-2085.	7.9	55
21	A New Protein Kinase C, nPKC $\hat{\epsilon}$ , and nPKC $\hat{\zeta}$ Are Expressed in Human Platelets: Involvement of nPKC $\hat{\epsilon}$ and nPKC $\hat{\zeta}$ in Signal Transduction Stimulated by PAF. <i>Biochemical and Biophysical Research Communications</i> , 1993, 191, 240-246.	2.1	51
22	Dopamine regulates pancreatic glucagon and insulin secretion via adrenergic and dopaminergic receptors. <i>Translational Psychiatry</i> , 2021, 11, 59.	4.8	50
23	Survey of the analysis of continuous conformational variability of biological macromolecules by electron microscopy. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 19-32.	0.8	49
24	Ribosome-associated vesicles: A dynamic subcompartment of the endoplasmic reticulum in secretory cells. <i>Science Advances</i> , 2020, 6, eaay9572.	10.3	42
25	Neuropsychiatric Aspects of Infectious Diseases. <i>Critical Care Clinics</i> , 2017, 33, 681-712.	2.6	28
26	Roles of inflammation in intrinsic pathophysiology and antipsychotic drug-induced metabolic disturbances of schizophrenia. <i>Behavioural Brain Research</i> , 2021, 402, 113101.	2.2	28
27	Distinguishing signal from autofluorescence in cryogenic correlated light and electron microscopy of mammalian cells. <i>Journal of Structural Biology</i> , 2018, 201, 15-25.	2.8	27
28	Serial cryoFIB/SEM Reveals Cytoarchitectural Disruptions in Leigh Syndrome Patient Cells. <i>Structure</i> , 2021, 29, 82-87.e3.	3.3	27
29	Development of a Rapid Insulin Assay by Homogenous Time-Resolved Fluorescence. <i>PLoS ONE</i> , 2016, 11, e0148684.	2.5	27
30	Pathogen manipulation of host metabolism: A common strategy for immune evasion. <i>PLoS Pathogens</i> , 2017, 13, e1006669.	4.7	27
31	Imaging Protein Kinase C Activation in Living Sea Urchin Eggs after Fertilization. <i>Developmental Biology</i> , 1995, 172, 675-682.	2.0	26
32	Automatic localization and identification of mitochondria in cellular electron cryo-tomography using faster-RCNN. <i>BMC Bioinformatics</i> , 2019, 20, 132.	2.6	25
33	Roles of dopamine and glutamate co $\hat{e}$ release in the nucleus accumbens in mediating the actions of drugs of abuse. <i>FEBS Journal</i> , 2021, 288, 1462-1474.	4.7	25
34	Olanzapine-induced liver injury in mice: aggravation by high-fat diet and protection with sulforaphane. <i>Journal of Nutritional Biochemistry</i> , 2020, 81, 108399.	4.2	24
35	Dopamine D2 receptor modulates Wnt expression and control of cell proliferation. <i>Scientific Reports</i> , 2019, 9, 16861.	3.3	23
36	Dopamine D2 receptor signaling modulates pancreatic beta cell circadian rhythms. <i>Psychoneuroendocrinology</i> , 2020, 113, 104551.	2.7	22

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37	Relevance of interactions between dopamine and glutamate neurotransmission in schizophrenia. <i>Molecular Psychiatry</i> , 2022, 27, 3583-3591.	7.9	22
38	Vesicular glutamate transporter modulates sex differences in dopamine neuron vulnerability to age-related neurodegeneration. <i>Aging Cell</i> , 2021, 20, e13365.	6.7	20
39	Dopamine D2 receptors and the circadian clock reciprocally mediate antipsychotic drug-induced metabolic disturbances. <i>NPJ Schizophrenia</i> , 2017, 3, 17.	3.6	19
40	Pathophysiology of drug induced weight and metabolic effects: findings from an RCT in healthy volunteers treated with olanzapine, iloperidone, or placebo. <i>Journal of Psychopharmacology</i> , 2018, 32, 533-540.	4.0	19
41	Isolation of mitochondria from <i>Saccharomyces cerevisiae</i> using magnetic bead affinity purification. <i>PLoS ONE</i> , 2018, 13, e0196632.	2.5	18
42	Chemical Targeting of Voltage Sensitive Dyes to Specific Cells and Molecules in the Brain. <i>Journal of the American Chemical Society</i> , 2020, 142, 9285-9301.	13.7	17
43	Dopamine neurons exhibit emergent glutamatergic identity in Parkinson's disease. <i>Brain</i> , 2022, 145, 879-886.	7.6	17
44	VGLUT2 Is a Determinant of Dopamine Neuron Resilience in a Rotenone Model of Dopamine Neurodegeneration. <i>Journal of Neuroscience</i> , 2021, 41, 4937-4947.	3.6	17
45	The intertwined roles of circadian rhythms and neuronal metabolism fueling drug reward and addiction. <i>Current Opinion in Physiology</i> , 2018, 5, 80-89.	1.8	13
46	Does the Time of Drug Administration Alter the Metabolic Risk of Aripiprazole?. <i>Frontiers in Psychiatry</i> , 2018, 9, 494.	2.6	12
47	Trace Amines and Trace Amine-Associated Receptors: A New Frontier in Cell Signaling. <i>Cellular and Molecular Neurobiology</i> , 2020, 40, 189-190.	3.3	11
48	Neuropsychiatric Aspects of Infectious Diseases. <i>Critical Care Clinics</i> , 2008, 24, 889-919.	2.6	10
49	WNT7B Regulates Cholangiocyte Proliferation and Function During Murine Cholestasis. <i>Hepatology Communications</i> , 2021, 5, 2019-2034.	4.3	9
50	Vesicular neurotransmitter transporters in <i>Drosophila melanogaster</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183308.	2.6	8
51	Deep Learning Based Supervised Semantic Segmentation of Electron Cryo-Subtomograms. , 2018, , .		7
52	Model Compression for Faster Structural Separation of Macromolecules Captured by Cellular Electron Cryo-Tomography. <i>Lecture Notes in Computer Science</i> , 2018, 10882, 144-152.	1.3	6
53	Roles of VGLUT2 and Dopamine/Glutamate Co-Transmission in Selective Vulnerability to Dopamine Neurodegeneration. <i>ACS Chemical Neuroscience</i> , 2022, 13, 187-193.	3.5	6
54	Homogeneous Time-resolved Förster Resonance Energy Transfer-based Assay for Detection of Insulin Secretion. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	5

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55	Structural Basis of Dopamine Receptor Activation. , 2010, , 47-73.		4
56	Dual pancreatic adrenergic and dopaminergic signaling as a therapeutic target of bromocriptine. IScience, 2022, 25, 104771.	4.1	4
57	The write stuff. Narrative Inquiry, 2014, 24, 28-39.	0.8	2
58	Importance of Substrate-Coupled Proton Antiport by the Vesicular Monoamine Transporter in the Actions of Amphetamines in Drosophila Brain. Journal of Alcoholism and Drug Dependence, 2016, 04, .	0.2	1
59	Commentary: Ghrelin promotes midbrain neural stem cells differentiation to dopaminergic neurons through the Wnt/ $\beta$ -catenin pathway. Frontiers in Cellular Neuroscience, 2020, 14, 248.	3.7	1
60	50. New Roles for Peripheral Dopamine D2-Like Receptors in Antipsychotic Drug-Induced Metabolic Dysfunction. Biological Psychiatry, 2019, 85, S21.	1.3	0
61	51. D2 Dopamine Receptors Alter Circadian Rhythms in Pancreatic Islet Cells: Implications for the Metabolic Side Effects of Antipsychotic Drugs. Biological Psychiatry, 2019, 85, S21.	1.3	0
62	Abstract 134: Dopamine D 2 Receptor Modulates Wnt Expression and Control of Cell Proliferation. Hypertension, 2019, 74, .	2.7	0
63	P544. Glucose Dysregulation in Antipsychotic-Na <sup>+</sup> First Episode Psychosis Patients: In Silico Exploration of Gene Expression Signatures. Biological Psychiatry, 2022, 91, S308-S309.	1.3	0