

Gary Rudnick

List of Publications by Year in descending order

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79
papers

5,544
citations

71102

41
h-index

82547

72
g-index

123
all docs

123
docs citations

123
times ranked

3348
citing authors

#	ARTICLE	IF	CITATIONS
1	Serotonin Transporter: Gene, Genetic Disorders, and Pharmacogenetics. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2004, 4, 109-123.	3.4	401
2	From synapse to vesicle: The reuptake and storage of biogenic amine neurotransmitters. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1144, 249-263.	1.0	368
3	Mechanism for alternating access in neurotransmitter transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10338-10343.	7.1	348
4	The Rocking Bundle: A Mechanism for Ion-Coupled Solute Flux by Symmetrical Transporters. <i>Physiology</i> , 2009, 24, 377-386.	3.1	253
5	Identification of a chloride ion binding site in Na ⁺ /Cl ⁻ -dependent transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12761-12766.	7.1	193
6	The Third Transmembrane Domain of the Serotonin Transporter Contains Residues Associated with Substrate and Cocaine Binding. <i>Journal of Biological Chemistry</i> , 1997, 272, 28321-28327.	3.4	171
7	ATP-Driven H ⁺ Pumping into Intracellular Organelles. <i>Annual Review of Physiology</i> , 1986, 48, 403-413.	13.1	160
8	Vaccinia-T7 RNA polymerase expression system: Evaluation for the expression cloning of plasma membrane transporters. <i>Analytical Biochemistry</i> , 1991, 194, 302-308.	2.4	160
9	External Cysteine Residues in the Serotonin Transporter. <i>Biochemistry</i> , 1997, 36, 1479-1486.	2.5	160
10	Expression of a cloned γ -aminobutyric acid transporter in mammalian cells. <i>Biochemistry</i> , 1992, 31, 1974-1979.	2.5	145
11	A Human Serotonin Transporter Mutation Causes Constitutive Activation of Transport Activity. <i>Molecular Pharmacology</i> , 2003, 64, 440-446.	2.3	145
12	The SLC6 transporters: perspectives on structure, functions, regulation, and models for transporter dysfunction. <i>Pflügers Archiv European Journal of Physiology</i> , 2014, 466, 25-42.	2.8	132
13	Ibogaine, a Noncompetitive Inhibitor of Serotonin Transport, Acts by Stabilizing the Cytoplasm-facing State of the Transporter. <i>Journal of Biological Chemistry</i> , 2007, 282, 29441-29447.	3.4	128
14	Determination of External Loop Topology in the Serotonin Transporter by Site-directed Chemical Labeling. <i>Journal of Biological Chemistry</i> , 1998, 273, 12675-12681.	3.4	123
15	The Cytoplasmic Substrate Permeation Pathway of Serotonin Transporter. <i>Journal of Biological Chemistry</i> , 2006, 281, 36213-36220.	3.4	110
16	The Mechanistic Basis for Noncompetitive Ibogaine Inhibition of Serotonin and Dopamine Transporters. <i>Journal of Biological Chemistry</i> , 2012, 287, 18524-18534.	3.4	105
17	Directed Evolution of a Selective and Sensitive Serotonin Sensor via Machine Learning. <i>Cell</i> , 2020, 183, 1986-2002.e26.	28.9	104
18	Platelet 5-hydroxytryptamine transport, an electroneutral mechanism coupled to potassium. <i>Biochemistry</i> , 1978, 17, 4739-4742.	2.5	101

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19	p-Chloroamphetamine induces serotonin release through serotonin transporters. <i>Biochemistry</i> , 1992, 31, 6710-6718.	2.5	101
20	Cell-specific Sorting of Biogenic Amine Transporters Expressed in Epithelial Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 18100-18106.	3.4	89
21	Unifying Concept of Serotonin Transporter-associated Currents. <i>Journal of Biological Chemistry</i> , 2012, 287, 438-445.	3.4	89
22	Serotonin Transporters – Structure and Function. <i>Journal of Membrane Biology</i> , 2006, 213, 101-110.	2.1	87
23	Characterization of a Functional Bacterial Homologue of Sodium-dependent Neurotransmitter Transporters. <i>Journal of Biological Chemistry</i> , 2003, 278, 12703-12709.	3.4	86
24	Phosphorylation of Threonine Residue 276 Is Required for Acute Regulation of Serotonin Transporter by Cyclic GMP. <i>Journal of Biological Chemistry</i> , 2007, 282, 11639-11647.	3.4	85
25	Fluoxetine (Prozac) Binding to Serotonin Transporter Is Modulated by Chloride and Conformational Changes. <i>Journal of Neuroscience</i> , 2009, 29, 9635-9643.	3.6	84
26	Bioenergetics of neurotransmitter transport. <i>Journal of Bioenergetics and Biomembranes</i> , 1998, 30, 173-185.	2.3	73
27	An Extracellular Loop Region of the Serotonin Transporter May Be Involved in the Translocation Mechanism. <i>Biochemistry</i> , 1997, 36, 1322-1328.	2.5	67
28	Two Na ⁺ Sites Control Conformational Change in a Neurotransmitter Transporter Homolog. <i>Journal of Biological Chemistry</i> , 2016, 291, 1456-1471.	3.4	65
29	Ion Coupling Stoichiometry for the Norepinephrine Transporter in Membrane Vesicles from Stably Transfected Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 6911-6916.	3.4	58
30	ligand Binding to the Serotonin Transporter: Equilibria, Kinetics, and Ion Dependence. <i>Biochemistry</i> , 1994, 33, 9118-9125.	2.5	57
31	Accessibility and Conformational Coupling in Serotonin Transporter Predicted Internal Domains. <i>Journal of Neuroscience</i> , 2002, 22, 8370-8378.	3.6	57
32	Polarized Expression of GABA Transporters in Madin-Darby Canine Kidney Cells and Cultured Hippocampal Neurons. <i>Journal of Biological Chemistry</i> , 1996, 271, 6917-6924.	3.4	54
33	The Role of External Loop Regions in Serotonin Transport. <i>Journal of Biological Chemistry</i> , 1999, 274, 36058-36064.	3.4	53
34	Molecular cloning, expression and characterization of a bovine serotonin transporter. <i>Molecular Brain Research</i> , 1999, 71, 120-126.	2.3	53
35	Structure and Regulatory Interactions of the Cytoplasmic Terminal Domains of Serotonin Transporter. <i>Biochemistry</i> , 2014, 53, 5444-5460.	2.5	53
36	Binding Mode Selection Determines the Action of Ecstasy Homologs at Monoamine Transporters. <i>Molecular Pharmacology</i> , 2016, 89, 165-175.	2.3	53

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37	Serotonin Transporter Phosphorylation by cGMP-Dependent Protein Kinase Is Altered by a Mutation Associated with Obsessive-Compulsive Disorder. <i>Journal of Neuroscience</i> , 2007, 27, 10878-10886.	3.6	52
38	Serotonin transport in the 21st century. <i>Journal of General Physiology</i> , 2019, 151, 1248-1264.	1.9	48
39	Analysis of Transmembrane Domain 2 of Rat Serotonin Transporter by Cysteine Scanning Mutagenesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 22926-22933.	3.4	47
40	Cysteine-scanning Mutagenesis of Serotonin Transporter Intracellular Loop 2 Suggests an α -Helical Conformation. <i>Journal of Biological Chemistry</i> , 2005, 280, 30807-30813.	3.4	46
41	A Conformationally Sensitive Residue on the Cytoplasmic Surface of Serotonin Transporter. <i>Journal of Biological Chemistry</i> , 2001, 276, 45933-45938.	3.4	43
42	SERT Ileu425Val in autism, Asperger syndrome and obsessive-compulsive disorder. <i>Psychiatric Genetics</i> , 2008, 18, 31-39.	1.1	42
43	[16] Ion-coupled neurotransmitter transport: Thermodynamic vs. kinetic determinations of stoichiometry. <i>Methods in Enzymology</i> , 1998, 296, 233-247.	1.0	41
44	Critical Amino Acid Residues in Transmembrane Span 7 of the Serotonin Transporter Identified by Random Mutagenesis. <i>Journal of Biological Chemistry</i> , 1998, 273, 28098-28106.	3.4	40
45	Control of serotonin transporter phosphorylation by conformational state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2776-83.	7.1	40
46	Functional Role of Critical Stripe Residues in Transmembrane Span 7 of the Serotonin Transporter. <i>Journal of Biological Chemistry</i> , 2001, 276, 4038-4045.	3.4	38
47	The NH ₂ -terminus of Norepinephrine Transporter Contains a Basolateral Localization Signal for Epithelial Cells. <i>Molecular Biology of the Cell</i> , 2001, 12, 3797-3807.	2.1	36
48	A Lithium-induced Conformational Change in Serotonin Transporter Alters Cocaine Binding, Ion Conductance, and Reactivity of Cys-109. <i>Journal of Biological Chemistry</i> , 2001, 276, 30942-30947.	3.4	36
49	Placental biogenic amine transporters: cloning and expression. <i>Molecular Brain Research</i> , 1997, 45, 163-168.	2.3	34
50	A Conserved Asparagine Residue in Transmembrane Segment 1 (TM1) of Serotonin Transporter Dictates Chloride-coupled Neurotransmitter Transport. <i>Journal of Biological Chemistry</i> , 2011, 286, 30823-30836.	3.4	32
51	Cytoplasmic Permeation Pathway of Neurotransmitter Transporters. <i>Biochemistry</i> , 2011, 50, 7462-7475.	2.5	29
52	Reconstructing a Chloride-binding Site in a Bacterial Neurotransmitter Transporter Homologue. <i>Journal of Biological Chemistry</i> , 2011, 286, 2834-2842.	3.4	29
53	Cysteine-Scanning Mutagenesis of the Fifth External Loop of Serotonin Transporter. <i>Biochemistry</i> , 2004, 43, 8510-8516.	2.5	28
54	Structural elements required for coupling ion and substrate transport in the neurotransmitter transporter homolog LeuT. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8854-E8862.	7.1	28

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55	What Is an Antidepressant Binding Site Doing in a Bacterial Transporter?. ACS Chemical Biology, 2007, 2, 606-609.	3.4	27
56	Mechanisms of Biogenic Amine Neurotransmitter Transporters. , 0, , 025-052.		27
57	Similarities and Differences among Neuroendocrine, Exocrine, and Endocytic Vesicles. Annals of the New York Academy of Sciences, 1987, 493, 448-460.	3.8	22
58	Platelet serotonin transporter. Methods in Enzymology, 1992, 215, 213-224.	1.0	19
59	How do transporters couple solute movements?. Molecular Membrane Biology, 2013, 30, 355-359.	2.0	18
60	Substrate and inhibitor binding and translocation by the platelet plasma membrane serotonin transporter. Biochemical Society Transactions, 1991, 19, 95-98.	3.4	17
61	Mechanism of β -galactoside transport in Escherichia coli membrane vesicles. Trends in Biochemical Sciences, 1976, 1, 41-45.	7.5	16
62	Ligand Effects on Cross-linking Support a Conformational Mechanism for Serotonin Transport. Journal of Biological Chemistry, 2009, 284, 33807-33814.	3.4	16
63	Chloride-dependent conformational changes in the GlyT1 glycine transporter. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
64	Vesicular ATP transport is a hard (V)NUT to crack. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5949-5950.	7.1	15
65	Myristoylation of cGMP-dependent Protein Kinase Dictates Isoform Specificity for Serotonin Transporter Regulation. Journal of Biological Chemistry, 2011, 286, 2461-2468.	3.4	15
66	Cyclic GMP-dependent Stimulation of Serotonin Transport Does Not Involve Direct Transporter Phosphorylation by cGMP-dependent Protein Kinase. Journal of Biological Chemistry, 2012, 287, 36051-36058.	3.4	15
67	Chemical Modification Strategies for Structure-Function Studies. , 0, , 125-141.		12
68	Serotonin transporter mutations associated with obsessive-compulsive disorder and phosphorylation alter binding affinity for inhibitors. Neuropharmacology, 2005, 49, 791-797.	4.1	11
69	Involvement of serotonin transporter extracellular loop 1 in serotonin binding and transport. Molecular Membrane Biology, 2008, 25, 115-127.	2.0	10
70	Unconventional transport of metal ions and protons by Nramps. Journal of General Physiology, 2019, 151, 1339-1342.	1.9	7
71	Serotonin Transport by Platelet Plasma and Granule Membranes. Annals of the New York Academy of Sciences, 1985, 456, 277-278.	3.8	4
72	The Vacuolar ATPase Is Responsible for Acidifying Secretory Organelles. Annals of the New York Academy of Sciences, 1987, 493, 259-263.	3.8	3

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73	A method for replacing intravesicular contents of golgi vesicles using an air-driven ultracentrifuge. Analytical Biochemistry, 1989, 180, 216-221.	2.4	3
74	The Platelet Plasma Membrane Serotonin Transporter Catalyzes Exchange between Neurotoxic Amphetamines and Serotonin. Annals of the New York Academy of Sciences, 1992, 648, 345-347.	3.8	3
75	Forty Four Years With Baruch Kanner and The Chloride Ion. Neurochemical Research, 2022, 47, 3-8.	3.3	2
76	Molecular Weight and Hydrodynamic Properties of the Chromaffin Granule ATPase. Annals of the New York Academy of Sciences, 1987, 493, 268-269.	3.8	0
77	Biogenic Amine Transporters: Targets for Drugs of Therapy and Abuse. CNS Neuroscience & Therapeutics, 2006, 5, 18-18.	4.0	0
78	A Role for Topologically-Inverted Structural Repeats in Secondary Active Transport by Membrane Proteins of the LeuT Fold. Biophysical Journal, 2009, 96, 382a.	0.5	0
79	The Role of Sodium Sites in LeuT Conformational Changes. Biophysical Journal, 2014, 106, 228a-229a.	0.5	0