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	Forty Four Years WithÂBaruch Kanner andÂThe Chloride Ion. Neurochemical Research, 2022, 47, 3-8.	3.3	2
2	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
3	Directed Evolution of a Selective and Sensitive Serotonin Sensor via Machine Learning. Cell, 2020, 183, 1986-2002.e26.	28.9	104
4	Serotonin transport in the 21st century. Journal of General Physiology, 2019, 151, 1248-1264.	1.9	48
5	Unconventional transport of metal ions and protons by Nramps. Journal of General Physiology, 2019, 151, 1339-1342.	1.9	7
6	Structural elements required for coupling ion and substrate transport in the neurotransmitter transporter homolog LeuT. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8854-E8862.	7.1	28
7	Control of serotonin transporter phosphorylation by conformational state. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2776-83.	7.1	40
8	Two Na+ Sites Control Conformational Change in a Neurotransmitter Transporter Homolog. Journal of Biological Chemistry, 2016, 291, 1456-1471.	3.4	65
9	Binding Mode Selection Determines the Action of Ecstasy Homologs at Monoamine Transporters. Molecular Pharmacology, 2016, 89, 165-175.	2.3	53
10	Structure and Regulatory Interactions of the Cytoplasmic Terminal Domains of Serotonin Transporter. Biochemistry, 2014, 53, 5444-5460.	2.5	53
11	The SLC6 transporters: perspectives on structure, functions, regulation, and models for transporter dysfunction. Pflugers Archiv European Journal of Physiology, 2014, 466, 25-42.	2.8	132
12	The Role of Sodium Sites in LeuT Conformational Changes. Biophysical Journal, 2014, 106, 228a-229a.	0.5	0
13	How do transporters couple solute movements?. Molecular Membrane Biology, 2013, 30, 355-359.	2.0	18
14	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
15	Unifying Concept of Serotonin Transporter-associated Currents. Journal of Biological Chemistry, 2012, 287, 438-445.	3.4	89
16	The Mechanistic Basis for Noncompetitive Ibogaine Inhibition of Serotonin and Dopamine Transporters. Journal of Biological Chemistry, 2012, 287, 18524-18534.	3.4	105
17	Cytoplasmic Permeation Pathway of Neurotransmitter Transporters. Biochemistry, 2011, 50, 7462-7475.	2.5	29
18	A Conserved Asparagine Residue in Transmembrane Segment 1 (TM1) of Serotonin Transporter Dictates Chloride-coupled Neurotransmitter Transport. Journal of Biological Chemistry, 2011, 286, 30823-30836.	3.4	32

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19	Reconstructing a Chloride-binding Site in a Bacterial Neurotransmitter Transporter Homologue. Journal of Biological Chemistry, 2011, 286, 2834-2842.	3.4	29
20	Myristoylation of cGMP-dependent Protein Kinase Dictates Isoform Specificity for Serotonin Transporter Regulation. Journal of Biological Chemistry, 2011, 286, 2461-2468.	3.4	15
21	The Rocking Bundle: A Mechanism for Ion-Coupled Solute Flux by Symmetrical Transporters. Physiology, 2009, 24, 377-386.	3.1	253
22	Ligand Effects on Cross-linking Support a Conformational Mechanism for Serotonin Transport. Journal of Biological Chemistry, 2009, 284, 33807-33814.	3.4	16
23	Fluoxetine (Prozac) Binding to Serotonin Transporter Is Modulated by Chloride and Conformational Changes. Journal of Neuroscience, 2009, 29, 9635-9643.	3.6	84
24	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
25	Mechanism for alternating access in neurotransmitter transporters. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10338-10343.	7.1	348
26	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
27	Involvement of serotonin transporter extracellular loop 1 in serotonin binding and transport. Molecular Membrane Biology, 2008, 25, 115-127.	2.0	10
28	SERT Ileu425Val in autism, Asperger syndrome and obsessiveâ€“compulsive disorder. Psychiatric Genetics, 2008, 18, 31-39.	1.1	42
29	Phosphorylation of Threonine Residue 276 Is Required for Acute Regulation of Serotonin Transporter by Cyclic GMP. Journal of Biological Chemistry, 2007, 282, 11639-11647.	3.4	85
30	Identification of a chloride ion binding site in Na ⁺ /Cl ^{â^'} -dependent transporters. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12761-12766.	7.1	193
31	Serotonin Transporter Phosphorylation by cGMP-Dependent Protein Kinase Is Altered by a Mutation Associated with Obsessiveâ€“Compulsive Disorder. Journal of Neuroscience, 2007, 27, 10878-10886.	3.6	52
32	Ibogaine, a Noncompetitive Inhibitor of Serotonin Transport, Acts by Stabilizing the Cytoplasm-facing State of the Transporter. Journal of Biological Chemistry, 2007, 282, 29441-29447.	3.4	128
33	What Is an Antidepressant Binding Site Doing in a Bacterial Transporter?. ACS Chemical Biology, 2007, 2, 606-609.	3.4	27
34	Biogenic Amine Transporters: Targets for Drugs of Therapy and Abuse. CNS Neuroscience & Therapeutics, 2006, 5, 18-18.	4.0	0
35	Serotonin Transporters â€“ Structure and Function. Journal of Membrane Biology, 2006, 213, 101-110.	2.1	87
36	The Cytoplasmic Substrate Permeation Pathway of Serotonin Transporter. Journal of Biological Chemistry, 2006, 281, 36213-36220.	3.4	110

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37	Cysteine-scanning Mutagenesis of Serotonin Transporter Intracellular Loop 2 Suggests an Î±-Helical Conformation. Journal of Biological Chemistry, 2005, 280, 30807-30813.	3.4	46
38	Serotonin transporter mutations associated with obsessive-compulsive disorder and phosphorylation alter binding affinity for inhibitors. Neuropharmacology, 2005, 49, 791-797.	4.1	11
39	Analysis of Transmembrane Domain 2 of Rat Serotonin Transporter by Cysteine Scanning Mutagenesis. Journal of Biological Chemistry, 2004, 279, 22926-22933.	3.4	47
40	Cysteine-Scanning Mutagenesis of the Fifth External Loop of Serotonin Transporter. Biochemistry, 2004, 43, 8510-8516.	2.5	28
41	Serotonin Transporter: Gene, Genetic Disorders, and Pharmacogenetics. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2004, 4, 109-123.	3.4	401
42	A Human Serotonin Transporter Mutation Causes Constitutive Activation of Transport Activity. Molecular Pharmacology, 2003, 64, 440-446.	2.3	145
43	Characterization of a Functional Bacterial Homologue of Sodium-dependent Neurotransmitter Transporters. Journal of Biological Chemistry, 2003, 278, 12703-12709.	3.4	86
44	Accessibility and Conformational Coupling in Serotonin Transporter Predicted Internal Domains. Journal of Neuroscience, 2002, 22, 8370-8378.	3.6	57
45	The NH₂-terminus of Norepinephrine Transporter Contains a Basolateral Localization Signal for Epithelial Cells. Molecular Biology of the Cell, 2001, 12, 3797-3807.	2.1	36
46	A Conformationally Sensitive Residue on the Cytoplasmic Surface of Serotonin Transporter. Journal of Biological Chemistry, 2001, 276, 45933-45938.	3.4	43
47	A Lithium-induced Conformational Change in Serotonin Transporter Alters Cocaine Binding, Ion Conductance, and Reactivity of Cys-109. Journal of Biological Chemistry, 2001, 276, 30942-30947.	3.4	36
48	Functional Role of Critical Stripe Residues in Transmembrane Span 7 of the Serotonin Transporter. Journal of Biological Chemistry, 2001, 276, 4038-4045.	3.4	38
49	The Role of External Loop Regions in Serotonin Transport. Journal of Biological Chemistry, 1999, 274, 36058-36064.	3.4	53
50	Molecular cloning, expression and characterization of a bovine serotonin transporter. Molecular Brain Research, 1999, 71, 120-126.	2.3	53
51	Bioenergetics of neurotransmitter transport. Journal of Bioenergetics and Biomembranes, 1998, 30, 173-185.	2.3	73
52	Critical Amino Acid Residues in Transmembrane Span 7 of the Serotonin Transporter Identified by Random Mutagenesis. Journal of Biological Chemistry, 1998, 273, 28098-28106.	3.4	40
53	Determination of External Loop Topology in the Serotonin Transporter by Site-directed Chemical Labeling. Journal of Biological Chemistry, 1998, 273, 12675-12681.	3.4	123
54	[16] Ion-coupled neurotransmitter transport: Thermodynamic vs. kinetic determinations of stoichiometry. Methods in Enzymology, 1998, 296, 233-247.	1.0	41

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55	The Third Transmembrane Domain of the Serotonin Transporter Contains Residues Associated with Substrate and Cocaine Binding. Journal of Biological Chemistry, 1997, 272, 28321-28327.	3.4	171
56	An Extracellular Loop Region of the Serotonin Transporter May Be Involved in the Translocation Mechanism. Biochemistry, 1997, 36, 1322-1328.	2.5	67
57	External Cysteine Residues in the Serotonin Transporter. Biochemistry, 1997, 36, 1479-1486.	2.5	160
58	Placental biogenic amine transporters: cloning and expression. Molecular Brain Research, 1997, 45, 163-168.	2.3	34
59	Cell-specific Sorting of Biogenic Amine Transporters Expressed in Epithelial Cells. Journal of Biological Chemistry, 1996, 271, 18100-18106.	3.4	89
60	Polarized Expression of GABA Transporters in Madin-Darby Canine Kidney Cells and Cultured Hippocampal Neurons. Journal of Biological Chemistry, 1996, 271, 6917-6924.	3.4	54
61	Ion Coupling Stoichiometry for the Norepinephrine Transporter in Membrane Vesicles from Stably Transfected Cells. Journal of Biological Chemistry, 1996, 271, 6911-6916.	3.4	58
62	ligand Binding to the Serotonin Transporter: Equilibria, Kinetics, and Ion Dependence. Biochemistry, 1994, 33, 9118-9125.	2.5	57
63	From synapse to vesicle: The reuptake and storage of biogenic amine neurotransmitters. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1144, 249-263.	1.0	368
64	Platelet serotonin transporter. Methods in Enzymology, 1992, 215, 213-224.	1.0	19
65	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
66	Expression of a cloned .gamma.-aminobutyric acid transporter in mammalian cells. Biochemistry, 1992, 31, 1974-1979.	2.5	145
67	p-Chloroamphetamine induces serotonin release through serotonin transporters. Biochemistry, 1992, 31, 6710-6718.	2.5	101
68	Substrate and inhibitor binding and translocation by the platelet plasma membrane serotonin transporter. Biochemical Society Transactions, 1991, 19, 95-98.	3.4	17
69	Vaccinia-T7 RNA polymerase expression system: Evaluation for the expression cloning of plasma membrane transporters. Analytical Biochemistry, 1991, 194, 302-308.	2.4	160
70	A method for replacing intravesicular contents of golgi vesicles using an air-driven ultracentrifuge. Analytical Biochemistry, 1989, 180, 216-221.	2.4	3
71	The Vacuolar ATPase Is Responsible for Acidifying Secretory Organelles. Annals of the New York Academy of Sciences, 1987, 493, 259-263.	3.8	3
72	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

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73	Similarities and Differences among Neuroendocrine, Exocrine, and Endocytic Vesicles. Annals of the New York Academy of Sciences, 1987, 493, 448-460.	3.8	22
74	ATP-Driven H+ Pumping into Intracellular Organelles. Annual Review of Physiology, 1986, 48, 403-413.	13.1	160
75	Serotonin Transport by Platelet Plasma and Granule Membranes. Annals of the New York Academy of Sciences, 1985, 456, 277-278.	3.8	4
76	Platelet 5-hydroxytryptamine transport, an electroneutral mechanism coupled to potassium. Biochemistry, 1978, 17, 4739-4742.	2.5	101
77	Mechanism of Î²-galactoside transport in Escherichia coli membrane vesicles. Trends in Biochemical Sciences, 1976, 1, 41-45.	7.5	16
78	Chemical Modification Strategies for Structure-Function Studies. , 0, , 125-141.		12
79	Mechanisms of Biogenic Amine Neurotransmitter Transporters. , 0, , 025-052.		27