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Structural basis of nucleoside and nucleoside drug selectivity by concentrative nucleoside transporters

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#	Paper	IF	Citations
46	Repeat-swap homology modeling of secondary active transporters: updated protocol and prediction of elevator-type mechanisms. <i>Frontiers in Pharmacology</i> , 2015 , 6, 183	5.6	33
45	Liposome reconstitution and transport assay for recombinant transporters. <i>Methods in Enzymology</i> , 2015 , 556, 373-83	1.7	13
44	SLC transporters as therapeutic targets: emerging opportunities. <i>Nature Reviews Drug Discovery</i> , 2015 , 14, 543-60	64.1	363
43	New developments in nucleoside analogues biosynthesis: A review. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016 , 133, 218-233		42
42	Dissection of Transporter Function: From Genetics to Structure. <i>Trends in Genetics</i> , 2016 , 32, 576-590	8.5	29
41	Nucleoside uptake in <i>Vibrio cholerae</i> and its role in the transition fitness from host to environment. <i>Molecular Microbiology</i> , 2016 , 99, 470-83	4.1	15
40	The bacterial dicarboxylate transporter VcINDY uses a two-domain elevator-type mechanism. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 256-63	17.6	55
39	Multifaceted roles of extracellular DNA in bacterial physiology. <i>Current Genetics</i> , 2016 , 62, 71-9	2.9	70
38	Visualizing multistep elevator-like transitions of a nucleoside transporter. <i>Nature</i> , 2017 , 545, 66-70	50.4	30
37	Identification and Characterization of a Secondary Sodium-Binding Site and the Main Selectivity Determinants in the Human Concentrative Nucleoside Transporter 3. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1980-1987	5.6	7
36	Structural insights into the elevator-like mechanism of the sodium/citrate symporter CitS. <i>Scientific Reports</i> , 2017 , 7, 2548	4.9	12
35	Pharmacological factors affecting accumulation of gemcitabine's active metabolite, gemcitabine triphosphate. <i>Pharmacogenomics</i> , 2017 , 18, 911-925	2.6	12
34	Substituted cysteine accessibility method (SCAM) analysis of the transport domain of human concentrative nucleoside transporter 3 (hCNT3) and other family members reveals features of structural and functional importance. <i>Journal of Biological Chemistry</i> , 2017 , 292, 9505-9522	5.4	9
33	Functional characterization of human equilibrative nucleoside transporter 1. <i>Protein and Cell</i> , 2017 , 8, 284-295	7.2	22
32	Polypharmacology of conformationally locked methanocarba nucleosides. <i>Drug Discovery Today</i> , 2017 , 22, 1782-1791	8.8	14
31	Comparison of the diastereoisomeric excess of uridine, inosine and adenosine cyanohydrins determined by HPLC-DAD and H NMR. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2017 , 36, 652-665	1.4	
30	Human Concentrative Nucleoside Transporter 3 (hCNT3, SLC28A3) Forms a Cyclic Homotrimer. <i>Biochemistry</i> , 2017 , 56, 3475-3483	3.2	9

29	Rational Design of Nucleoside-Bile Acid Conjugates Incorporating a Triazole Moiety for Anticancer Evaluation and SAR Exploration. <i>Molecules</i> , 2017 , 22,	4.8	14
28	A two-step transport pathway allows the mother cell to nurture the developing spore in <i>Bacillus subtilis</i> . <i>PLoS Genetics</i> , 2017 , 13, e1007015	6	21
27	Rosetta Broker for membrane protein structure prediction: concentrative nucleoside transporter 3 and corticotropin-releasing factor receptor 1 test cases. <i>BMC Structural Biology</i> , 2017 , 17, 8	2.7	5
26	Homology Modeling of Human Concentrative Nucleoside Transporters (hCNTs) and Validation by Virtual Screening and Experimental Testing to Identify Novel hCNT1 Inhibitors. <i>Drug Designing: Open Access</i> , 2017 , 6,		4
25	Retraction of Characterization of the Escherichia coli Concentrative Nucleoside Transporter NupC Using Computational, Biochemical, and Biophysical Methods <i>Biochemistry</i> , 2018 , 57, 4237-4237	3.2	1
24	Enzymatic Synthesis of Nucleic Acid Derivatives by Immobilized Cells. 2018 , 79-106		3
23	Design of "Click" Fluorescent Labeled 2'-deoxyuridines via C5-[4-(2-Propynyl(methyl)amino)]phenyl Acetylene as a Universal Linker: Synthesis, Photophysical Properties, and Interaction with BSA. <i>Journal of Organic Chemistry</i> , 2018 , 83, 7606-7621	4.2	11
22	Structures of human ENT1 in complex with adenosine reuptake inhibitors. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 599-606	17.6	42
21	Visualizing conformation transitions of the Lipid II flippase MurJ. <i>Nature Communications</i> , 2019 , 10, 17361-74	17.4	36
20	Survey of ribose ring pucker of signaling nucleosides and nucleotides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020 , 39, 322-341	1.4	2
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18	Cryo-EM structure of the human concentrative nucleoside transporter CNT3. <i>PLoS Biology</i> , 2020 , 18, e3000790	9.7	8
17	Extended fluorescent uridine analogues: synthesis, photophysical properties and selective interaction with BSA protein. <i>New Journal of Chemistry</i> , 2020 , 44, 14744-14754	3.6	2
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13	Dissecting the Conformational Dynamics of the Bile Acid Transporter Homologue ASBT. <i>Journal of Molecular Biology</i> , 2021 , 433, 166764	6.5	2
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11	Evolution and insights into the structure and function of the DedA superfamily containing TMEM41B and VMP1. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	9
10	An Analysis of Mechanisms for Cellular Uptake of miRNAs to Enhance Drug Delivery and Efficacy in Cancer Chemoresistance. <i>Non-coding RNA</i> , 2021 , 7,	7.1	1
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8	Concentrative Nucleoside Transporter 3 Is Located on Microvilli of Vaginal Epithelial Cells. <i>ACS Omega</i> , 2020 , 5, 20882-20889	3.9	2
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5	Allosteric and transport modulation of human concentrative nucleoside transporter 3 at the atomic scale. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 25401-25413	3.6	1
4	Recent advances on the inhibition of human solute carriers: Therapeutic implications and mechanistic insights.. <i>Current Opinion in Structural Biology</i> , 2022 , 74, 102378	8.1	0
3	SAMHD1 controls nucleoside-based cancer therapeutics, deoxyguanosine toxicity, and inflammation.		0
2	Recognition and release of uridine and hCNT3: From multivariate interactions to molecular design. 2022 ,		0
1	Elevator Mechanism of Alternating Access in the Escherichia coli Concentrative Nucleoside Transporter NupC.		0