

Eric Beitz

List of Publications by Year in descending order

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75
papers

2,849
citations

201674

27
h-index

182427

51
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75
all docs

75
docs citations

75
times ranked

2562
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutational widening of constrictions in a formate/nitrite/H ⁺ transporter enables aquaporin-like water permeability and proton conductance. <i>Journal of Biological Chemistry</i> , 2022, 298, 101513.	3.4	6
2	Lactic Acid Permeability of Aquaporin-9 Enables Cytoplasmic Lactate Accumulation via an Ion Trap. <i>Life</i> , 2022, 12, 120.	2.4	5
3	Pentafluoro- β -hydroxy-pent-2-en-1-ones Potently Inhibit FNT-Type Lactate Transporters from all Five Human Pathogenic <i>Plasmodium</i> Species. <i>ChemMedChem</i> , 2021, 16, 1283-1289.	3.2	12
4	Aquaporins. , 2021, , 1-7.		0
5	Basigin drives intracellular accumulation of l-lactate by harvesting protons and substrate anions. <i>PLoS ONE</i> , 2021, 16, e0249110.	2.5	13
6	Degraded Arabinogalactans and Their Binding Properties to Cancer-Associated Human Galectins. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4058.	4.1	6
7	Structure memes: Intuitive visualization of sequence logo and subfamily logo information in a $\langle scp \rangle 3D \langle /scp \rangle$ protein structural context. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 1262-1269.	2.6	0
8	Cysteine 159 delineates a hinge region of the alternating access monocarboxylate transporter $\Delta 1$ and is targeted by cysteine-modifying inhibitors. <i>FEBS Journal</i> , 2021, 288, 6052-6062.	4.7	7
9	Fluorescence Cross-Correlation Spectroscopy Yields True Affinity and Binding Kinetics of Plasmodium Lactate Transport Inhibitors. <i>Pharmaceuticals</i> , 2021, 14, 757.	3.8	11
10	Aquaporins with lactate/lactic acid permeability at physiological pH conditions. <i>Biochimie</i> , 2021, 188, 7-11.	2.6	10
11	Cover Image, Volume 89, Issue 10. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, C1.	2.6	0
12	Discovery and Development of Inhibitors of the Plasmodial FNT-Type Lactate Transporter as Novel Antimalarials. <i>Pharmaceuticals</i> , 2021, 14, 1191.	3.8	5
13	Aquaporins. , 2021, , 242-248.		0
14	Transmembrane Facilitation of Lactate/H ⁺ Instead of Lactic Acid Is Not a Question of Semantics but of Cell Viability. <i>Membranes</i> , 2020, 10, 236.	3.0	14
15	Introduction of Scaffold Nitrogen Atoms Renders Inhibitors of the Malarial l-Lactate Transporter, PfFNT, Effective against the Gly107Ser Resistance Mutation. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 9731-9741.	6.4	12
16	The Ionophores CCCP and Gramicidin but Not Nigericin Inhibit <i>Trypanosoma brucei</i> Aquaglyceroporins at Neutral pH. <i>Cells</i> , 2020, 9, 2335.	4.1	2
17	A Fluorescence-Based Method to Measure ADP/ATP Exchange of Recombinant Adenine Nucleotide Translocase in Liposomes. <i>Biomolecules</i> , 2020, 10, 685.	4.0	12
18	Cell-Free and Yeast-Based Production of the Malarial Lactate Transporter, PfFNT, Delivers Comparable Yield and Protein Quality. <i>Frontiers in Pharmacology</i> , 2019, 10, 375.	3.5	1

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19	Formate-nitrite transporters carrying nonprotonatable amide amino acids instead of a central histidine maintain pH-dependent transport. <i>Journal of Biological Chemistry</i> , 2019, 294, 623-631.	3.4	26
20	The intracellular parasite <i>Toxoplasma gondii</i> harbors three druggable FNT-type formate and l-lactate transporters in the plasma membrane. <i>Journal of Biological Chemistry</i> , 2018, 293, 17622-17630.	3.4	29
21	<i>Trypanosoma brucei</i> aquaglyceroporins mediate the transport of metabolic end-products: Methylglyoxal, D-lactate, L-lactate and acetate. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 2252-2261.	2.6	8
22	Targeting Channels and Transporters in Protozoan Parasite Infections. <i>Frontiers in Chemistry</i> , 2018, 6, 88.	3.6	29
23	Mechanism of formate-nitrite transporters by dielectric shift of substrate acidity. <i>EMBO Journal</i> , 2017, 36, 949-958.	7.8	61
24	A widened substrate selectivity filter of eukaryotic formate-nitrite transporters enables high-level lactate conductance. <i>FEBS Journal</i> , 2017, 284, 2663-2673.	4.7	21
25	Electrostatic attraction of weak monoacid anions increases probability for protonation and passage through aquaporins. <i>Journal of Biological Chemistry</i> , 2017, 292, 9358-9364.	3.4	29
26	Formate-nitrite transporters: Monoacids ride the dielectric slide. <i>Channels</i> , 2017, 11, 365-367.	2.8	19
27	Reducing isoform complexity of human tetraspanins by optimized expression in <i>Dictyostelium discoideum</i> enables high-throughput functional read-out. <i>Protein Expression and Purification</i> , 2017, 135, 8-15.	1.3	0
28	Substrate-analogous inhibitors exert antimalarial action by targeting the <i>Plasmodium</i> lactate transporter PfFNT at nanomolar scale. <i>PLoS Pathogens</i> , 2017, 13, e1006172.	4.7	45
29	The C Isoform of <i>Dictyostelium</i> Tetraspanins Localizes to the Contractile Vacuole and Contributes to Resistance against Osmotic Stress. <i>PLoS ONE</i> , 2016, 11, e0162065.	2.5	3
30	Attacking Aquaporin Water and Solute Channels of Human-Pathogenic Parasites: New Routes for Treatment?. , 2016, , 233-246.		1
31	High-level cell-free production of the malarial lactate transporter PfFNT as a basis for crystallization trials and directional transport studies. <i>Protein Expression and Purification</i> , 2016, 126, 109-114.	1.3	12
32	Pentamidine Is Not a Permeant but a Nanomolar Inhibitor of the <i>Trypanosoma brucei</i> Aquaglyceroporin-2. <i>PLoS Pathogens</i> , 2016, 12, e1005436.	4.7	46
33	Number and Regulation of Protozoan Aquaporins Reflect Environmental Complexity. <i>Biological Bulletin</i> , 2015, 229, 38-46.	1.8	18
34	Bi-functionality of <i>Opisthorchis viverrini</i> aquaporins. <i>Biochimie</i> , 2015, 108, 149-159.	2.6	7
35	Identity of a <i>Plasmodium</i> lactate/H ⁺ symporter structurally unrelated to human transporters. <i>Nature Communications</i> , 2015, 6, 6284.	12.8	62
36	The amoeboidal <i>Dictyostelium</i> aquaporin AqpB is gated via Tyr216 and <i>aqpB</i> gene deletion affects random cell motility. <i>Biology of the Cell</i> , 2015, 107, 78-88.	2.0	6

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37	Challenges and achievements in the therapeutic modulation of aquaporin functionality. , 2015, 155, 22-35.		46
38	The arginine-facing amino acid residue of the rat aquaporin 1 constriction determines solute selectivity according to its size and lipophilicity. <i>Molecular Membrane Biology</i> , 2014, 31, 228-238.	2.0	10
39	Aquaporins with anion/monocarboxylate permeability: mechanisms, relevance for pathogen-host interactions. <i>Frontiers in Pharmacology</i> , 2014, 5, 199.	3.5	33
40	Parasite aquaporins: Current developments in drug facilitation and resistance. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1566-1573.	2.4	36
41	Structural determinants of the hydrogen peroxide permeability of aquaporins. <i>FEBS Journal</i> , 2014, 281, 647-656.	4.7	151
42	Discovery of Novel Human Aquaporin-1 Blockers. <i>ACS Chemical Biology</i> , 2013, 8, 249-256.	3.4	58
43	Preparative scale production and functional reconstitution of a human aquaglyceroporin (AQP3) using a cell free expression system. <i>New Biotechnology</i> , 2013, 30, 545-551.	4.4	22
44	Specific aquaporins increase the ammonia tolerance of a <i>Saccharomyces cerevisiae</i> mep1-3fps1 deletion strain. <i>Molecular Membrane Biology</i> , 2013, 30, 43-51.	2.0	4
45	Functional Characterization of a Novel Aquaporin from <i>Dictyostelium discoideum</i> Amoebae Implies a Unique Gating Mechanism. <i>Journal of Biological Chemistry</i> , 2012, 287, 7487-7494.	3.4	27
46	Molar concentrations of sorbitol and polyethylene glycol inhibit the <i>Plasmodium</i> aquaglyceroporin but not that of <i>E. coli</i> : Involvement of the channel vestibules. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1218-1224.	2.6	25
47	Fluorescent In Situ Folding Control for Rapid Optimization of Cell-Free Membrane Protein Synthesis. <i>PLoS ONE</i> , 2012, 7, e42186.	2.5	21
48	Enhancement of Proton Conductance by Mutations of the Selectivity Filter of Aquaporin-1. <i>Journal of Molecular Biology</i> , 2011, 407, 607-620.	4.2	61
49	The aquaporin gene family of the ectomycorrhizal fungus <i>Laccaria bicolor</i> : lessons for symbiotic functions. <i>New Phytologist</i> , 2011, 190, 927-940.	7.3	88
50	Requirement for asparagine in the aquaporin NPA sequence signature motifs for cation exclusion. <i>FEBS Journal</i> , 2011, 278, 740-748.	4.7	45
51	The role of alanine 163 in solute permeability of <i>Leishmania major</i> aquaglyceroporin LmAQP1. <i>Molecular and Biochemical Parasitology</i> , 2011, 175, 83-90.	1.1	26
52	Functional analysis of novel aquaporins from <i>Fasciola gigantica</i> . <i>Molecular and Biochemical Parasitology</i> , 2011, 175, 144-153.	1.1	14
53	Functional and evolutionary implications of natural channel-enzyme fusion proteins. <i>Biomolecular Concepts</i> , 2011, 2, 439-444.	2.2	2
54	Novel Channel Enzyme Fusion Proteins Confer Arsenate Resistance. <i>Journal of Biological Chemistry</i> , 2010, 285, 40081-40087.	3.4	45

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55	Metalloid Transport by Aquaglyceroporins: Consequences in the Treatment of Human Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2010, 679, 57-69.	1.6	15
56	Concerted action of two cation filters in the aquaporin water channel. <i>EMBO Journal</i> , 2009, 28, 2188-2194.	7.8	84
57	In Vitro Analysis and Modification of Aquaporin Pore Selectivity. <i>Handbook of Experimental Pharmacology</i> , 2009, , 77-92.	1.8	17
58	A yeast-based phenotypic screen for aquaporin inhibitors. <i>Pflugers Archiv European Journal of Physiology</i> , 2008, 456, 717-720.	2.8	16
59	Jammed traffic impedes parasite growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13855-13856.	7.1	11
60	Microwave-Assisted Ring Opening of Epoxides: A General Route to the Synthesis of 1-Aminopropan-2-ols with Anti Malaria Parasite Activities. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 4243-4249.	6.4	57
61	Determinants of AQP6 trafficking to intracellular sites versus the plasma membrane in transfected mammalian cells. <i>Biology of the Cell</i> , 2006, 98, 101-109.	2.0	53
62	Dihydroxyacetone and methylglyoxal as permeants of the Plasmodium aquaglyceroporin inhibit parasite proliferation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 1012-1017.	2.6	51
63	Ammonia permeability of the aquaglyceroporins from Plasmodium falciparum, Toxoplasma gondii and Trypanosoma brucei. <i>Molecular Microbiology</i> , 2006, 61, 1598-1608.	2.5	80
64	Subfamily logos: visualization of sequence deviations at alignment positions with high information content. <i>BMC Bioinformatics</i> , 2006, 7, 313.	2.6	14
65	Aquaporin Water and Solute Channels from Malaria Parasites and Other Pathogenic Protozoa. <i>ChemMedChem</i> , 2006, 1, 587-592.	3.2	22
66	Point mutations in the aromatic/arginine region in aquaporin 1 allow passage of urea, glycerol, ammonia, and protons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 269-274.	7.1	300
67	Aquaporins from pathogenic protozoan parasites: structure, function and potential for chemotherapy. <i>Biology of the Cell</i> , 2005, 97, 373-383.	2.0	81
68	Cloning, Heterologous Expression, and Characterization of Three Aquaglyceroporins from Trypanosoma brucei. <i>Journal of Biological Chemistry</i> , 2004, 279, 42669-42676.	3.4	72
69	Molecular dissection of water and glycerol permeability of the aquaglyceroporin from Plasmodium falciparum by mutational analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1153-1158.	7.1	103
70	Aquaporin-mediated fluid regulation in the inner ear. <i>Cellular and Molecular Neurobiology</i> , 2003, 23, 315-329.	3.3	56
71	A single aquaporin gene encodes a water/glycerol/urea facilitator in Toxoplasma gondii with similarity to plant tonoplast intrinsic proteins1. <i>FEBS Letters</i> , 2003, 555, 500-504.	2.8	39
72	Characterization of Aquaporin-6 as a Nitrate Channel in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 39873-39879.	3.4	188

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73	A Single, Bi-functional Aquaglyceroporin in Blood-stage Plasmodium falciparum Malaria Parasites. Journal of Biological Chemistry, 2002, 277, 4874-4882.	3.4	145
74	Expression pattern of aquaporin water channels in the inner ear of the rat. Hearing Research, 1999, 132, 76-84.	2.0	82
75	The effect of anti-diuretic hormone on the endolymphatic sac of the inner ear. Pflugers Archiv European Journal of Physiology, 1998, 436, 970-975.	2.8	111