

Keith Nehrke

List of Publications by Year in descending order

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83
papers

3,491
citations

109321

35
h-index

149698

56
g-index

89
all docs

89
docs citations

89
times ranked

4431
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-Wide Search and Identification of a Novel Gel-Forming Mucin MUC19/Muc19 in Glandular Tissues. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2004, 30, 155-165.	2.9	195
2	Physiological Roles of the Intermediate Conductance, Ca ²⁺ -activated Potassium Channel Kcnn4. <i>Journal of Biological Chemistry</i> , 2004, 279, 47681-47687.	3.4	173
3	Anthranilate Fluorescence Marks a Calcium-Propagated Necrotic Wave That Promotes Organismal Death in <i>C. elegans</i> . <i>PLoS Biology</i> , 2013, 11, e1001613.	5.6	123
4	Acidic pH Is a Metabolic Switch for 2-Hydroxyglutarate Generation and Signaling. <i>Journal of Biological Chemistry</i> , 2016, 291, 20188-20197.	3.4	118
5	The hSK4 (KCNN4) isoform is the Ca ²⁺ -activated K ⁺ channel (Gardos channel) in human red blood cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7366-7371.	7.1	114
6	A Reduction in Intestinal Cell pH Due to Loss of the <i>Caenorhabditis elegans</i> Na ⁺ /H ⁺ Exchanger NHX-2 Increases Life Span. <i>Journal of Biological Chemistry</i> , 2003, 278, 44657-44666.	3.4	108
7	cDNA Cloning and Expression of a Family of UDP-N-acetyl-dgalactosamine:Polypeptide N-Acetyl-galactosaminyltransferase Sequence Homologs from <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 8268-8277.	3.4	104
8	Loss of Hyperpolarization-activated Cl ⁻ Current in Salivary Acinar Cells from Clcn2 Knockout Mice. <i>Journal of Biological Chemistry</i> , 2002, 277, 23604-23611.	3.4	104
9	Secretion and cell volume regulation by salivary acinar cells from mice lacking expression of the Clcn3 channel gene. <i>Journal of Physiology</i> , 2002, 545, 207-216.	2.9	95
10	Altered GABAergic function accompanies hippocampal degeneration in mice lacking ClC-3 voltage-gated chloride channels. <i>Brain Research</i> , 2002, 958, 227-250.	2.2	94
11	Ste20-Type Kinases: Evolutionarily Conserved Regulators of Ion Transport and Cell Volume. <i>Physiology</i> , 2006, 21, 61-68.	3.1	91
12	Cardioprotection by the mitochondrial unfolded protein response requires ATF5. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H472-H478.	3.2	90
13	The Nck-interacting Kinase (NIK) Phosphorylates the Na ⁺ -H ⁺ Exchanger NHE1 and Regulates NHE1 Activation by Platelet-derived Growth Factor. <i>Journal of Biological Chemistry</i> , 2001, 276, 31349-31356.	3.4	88
14	The NHX Family of Na ⁺ -H ⁺ Exchangers in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 29036-29044.	3.4	74
15	Defective Fluid Secretion and NaCl Absorption in the Parotid Glands of Na ⁺ /H ⁺ Exchanger-deficient Mice. <i>Journal of Biological Chemistry</i> , 2001, 276, 27042-27050.	3.4	72
16	Ischemic preconditioning: The role of mitochondria and aging. <i>Experimental Gerontology</i> , 2012, 47, 1-7.	2.8	69
17	Molecular identification of Ca ²⁺ -activated K ⁺ channels in parotid acinar cells. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C535-C546.	4.6	68
18	Metabolic Acidosis Increases Intracellular Calcium in Bone Cells Through Activation of the Proton Receptor OGR1. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 305-313.	2.8	67

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19	Oscillatory Transepithelial H ⁺ Flux Regulates a Rhythmic Behavior in <i>C. elegans</i> . <i>Current Biology</i> , 2008, 18, 297-302.	3.9	64
20	Molecular and Functional Characterization of a Murine Calcium-activated Chloride Channel Expressed in Smooth Muscle. <i>Journal of Biological Chemistry</i> , 2002, 277, 18586-18591.	3.4	63
21	GCK-3, a Newly Identified Ste20 Kinase, Binds To and Regulates the Activity of a Cell Cycle-dependent Cl ⁻ Anion Channel. <i>Journal of General Physiology</i> , 2005, 125, 113-125.	1.9	63
22	SLO-2 Is Cytoprotective and Contributes to Mitochondrial Potassium Transport. <i>PLoS ONE</i> , 2011, 6, e28287.	2.5	62
23	Charge Distribution of Flanking Amino Acids Influences O-Glycan Acquisition in Vivo. <i>Journal of Biological Chemistry</i> , 1996, 271, 7061-7065.	3.4	61
24	Genetic hypercalciuric stone-forming rats. <i>Current Opinion in Nephrology and Hypertension</i> , 2006, 15, 403-418.	2.0	59
25	Loss of the apical V-ATPase α -subunit VHA-6 prevents acidification of the intestinal lumen during a rhythmic behavior in <i>C. elegans</i> . <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C1071-C1081.	4.6	59
26	A Quaternary Transcription Termination Complex. <i>Journal of Molecular Biology</i> , 1994, 243, 830-839.	4.2	54
27	Cardioprotection by nicotinamide mononucleotide (NMN): Involvement of glycolysis and acidic pH. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 121, 155-162.	1.9	53
28	A Novel Mitochondrial K ⁺ ATP ⁺ Channel Assay. <i>Circulation Research</i> , 2010, 106, 1190-1196.	4.5	52
29	Quantitative Analysis of the Voltage-dependent Gating of Mouse Parotid Cl ⁻ 2 Chloride Channel. <i>Journal of General Physiology</i> , 2005, 126, 591-603.	1.9	49
30	Function of a STIM1 Homologue in <i>C. elegans</i> : Evidence that Store-operated Ca ²⁺ Entry Is Not Essential for Oscillatory Ca ²⁺ Signaling and ER Ca ²⁺ Homeostasis. <i>Journal of General Physiology</i> , 2006, 128, 443-459.	1.9	45
31	Into Ion Channel and Transporter Function. <i>Caenorhabditis elegans</i> Cl ⁻ -type chloride channels: novel variants and functional expression. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 279, C2052-C2066.	4.6	40
32	Intestinal Ca ²⁺ wave dynamics in freely moving <i>C. elegans</i> coordinate execution of a rhythmic motor program. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C333-C344.	4.6	40
33	Fndc-1 contributes to paternal mitochondria elimination in <i>C. elegans</i> . <i>Developmental Biology</i> , 2019, 454, 15-20.	2.0	39
34	Mitochondrial Fragmentation Leads to Intracellular Acidification in <i>Caenorhabditis elegans</i> and Mammalian Cells. <i>Molecular Biology of the Cell</i> , 2010, 21, 2191-2201.	2.1	38
35	Kir6.2 is not the mitochondrial K ⁺ ATP ⁺ channel but is required for cardioprotection by ischemic preconditioning. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 304, H1439-H1445.	3.2	38
36	The Slo(w) path to identifying the mitochondrial channels responsible for ischemic protection. <i>Biochemical Journal</i> , 2017, 474, 2067-2094.	3.7	36

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37	Tauopathy-associated tau modifications selectively impact neurodegeneration and mitophagy in a novel <i>C. elegans</i> single-copy transgenic model. <i>Molecular Neurodegeneration</i> , 2020, 15, 65.	10.8	35
38	A non-cardiomyocyte autonomous mechanism of cardioprotection involving the SLO1 BK channel. <i>PeerJ</i> , 2013, 1, e48.	2.0	34
39	The Mitochondrial Unfolded Protein Response Protects against Anoxia in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2016, 11, e0159989.	2.5	33
40	The abts and sulp families of anion transporters from <i>Caenorhabditis elegans</i> . <i>American Journal of Physiology - Cell Physiology</i> , 2005, 289, C341-C351.	4.6	32
41	Isoform-specific O-glycosylation by murine UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase-T3, in vivo. <i>Glycobiology</i> , 1998, 8, 367-371.	2.5	31
42	Acute inhibition of brain-specific Na ⁺ /H ⁺ exchanger isoform 5 by protein kinases A and C and cell shrinkage. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 281, C1146-C1157.	4.6	31
43	Charge distribution of flanking amino acids inhibits O-glycosylation of several single-site acceptors in vivo. <i>Glycobiology</i> , 1997, 7, 1053-1060.	2.5	29
44	The <i>C. elegans</i> mitochondrial K ⁺ ATP channel: A potential target for preconditioning. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 625-628.	2.1	28
45	Chromophore-Assisted Light Inactivation of Mitochondrial Electron Transport Chain Complex II in <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2016, 6, 29695.	3.3	28
46	Alternative splicing of N- and C-termini of a <i>C. elegans</i> CIC channel alters gating and sensitivity to external Cl ⁻ and H ⁺ . <i>Journal of Physiology</i> , 2004, 555, 97-114.	2.9	26
47	The Crosstalk Between Pathological Tau Phosphorylation and Mitochondrial Dysfunction as a Key to Understanding and Treating Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2020, 57, 5103-5120.	4.0	26
48	Overproduced rho factor from p39AS has lysine replacing glutamic acid at residue 155 in the linker region between its RNA and ATP binding domains. <i>Nucleic Acids Research</i> , 1992, 20, 6107-6107.	14.5	25
49	Cardiac metabolic effects of K _{Na} 1.2 channel deletion and evidence for its mitochondrial localization. <i>FASEB Journal</i> , 2018, 32, 6135-6149.	0.5	23
50	Sex Modifies Genetic Effects on Residual Variance in Urinary Calcium Excretion in Rat (<i>Rattus</i>) <i>Tj ETQq0 0 0 rgBT/Overlock, 10 Tf 50 2</i>	2.9	22
51	Carboxy Terminus Splice Variation Alters CIC Channel Gating and Extracellular Cysteine Reactivity. <i>Biophysical Journal</i> , 2006, 90, 3570-3581.	0.5	21
52	Regulation of acid-base transporters by reactive oxygen species following mitochondrial fragmentation. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1045-C1054.	4.6	20
53	Mitochondrial ATP-sensitive potassium channel activity and hypoxic preconditioning are independent of an inwardly rectifying potassium channel subunit in <i>Caenorhabditis elegans</i> . <i>FEBS Letters</i> , 2012, 586, 428-434.	2.8	19
54	Intracellular pH Measurements In Vivo Using Green Fluorescent Protein Variants. , 2006, 351, 223-240.		18

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55	miR-786 Regulation of a Fatty-Acid Elongase Contributes to Rhythmic Calcium-Wave Initiation in <i>C.Âelegans</i> . <i>Current Biology</i> , 2012, 22, 2213-2220.	3.9	17
56	A <i>C. elegans</i> model of electronic cigarette use: Physiological effects of e-liquids in nematodes. <i>BMC Pharmacology & Toxicology</i> , 2015, 16, 32.	2.4	17
57	Cardiac <i>Slc2.1</i> Is Required for Volatile Anesthetic Stimulation of K ⁺ Transport and Anesthetic Preconditioning. <i>Anesthesiology</i> , 2016, 124, 1065-1076.	2.5	17
58	Potential mechanisms linking SIRT activity and hypoxic 2-hydroxyglutarate generation: no role for direct enzyme (de)acetylation. <i>Biochemical Journal</i> , 2017, 474, 2829-2839.	3.7	17
59	A calcineurin homologous protein is required for sodium-proton exchange events in the <i>C. elegans</i> intestine. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 301, C1389-C1403.	4.6	16
60	Bicarbonate modulates oxidative and functional damage in ischemiaâ€“reperfusion. <i>Free Radical Biology and Medicine</i> , 2013, 55, 46-53.	2.9	16
61	Tau Post-Translational Modifications: Potentiators of Selective Vulnerability in Sporadic Alzheimerâ€™s Disease. <i>Biology</i> , 2021, 10, 1047.	2.8	14
62	Altered gating and regulation of a carboxy-terminal ClC channel mutant expressed in the <i>Caenorhabditis elegans</i> oocyte. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1109-C1118.	4.6	13
63	Semaphorin 3A potentiates the profibrotic effects of transforming growth factor- β 1 in the cornea. <i>Biochemical and Biophysical Research Communications</i> , 2020, 521, 333-339.	2.1	13
64	FNDC-1-mediated mitophagy and ATFS-1 coordinate to protect against hypoxia-reoxygenation. <i>Autophagy</i> , 2021, 17, 3389-3401.	9.1	13
65	Effect of <i>Caenorhabditis elegans</i> age and genotype on horizontal gene transfer in intestinal bacteria. <i>FASEB Journal</i> , 2013, 27, 760-768.	0.5	11
66	Ca ²⁺ -activated Cl ⁻ currents in salivary and lacrimal glands. <i>Current Topics in Membranes</i> , 2002, , 209-230.	0.9	10
67	Identification of a nuclear carbonic anhydrase in <i>Caenorhabditis elegans</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012, 1823, 808-817.	4.1	9
68	Analysis of Ca ²⁺ Signaling Motifs That Regulate Proton Signaling through the Na ⁺ /H ⁺ Exchanger NHX-7 during a Rhythmic Behavior in <i>Caenorhabditis elegans</i> *. <i>Journal of Biological Chemistry</i> , 2013, 288, 5886-5895.	3.4	8
69	Expression of the CHOP-inducible carbonic anhydrase CAVI-b is required for BDNF-mediated protection from hypoxia. <i>Brain Research</i> , 2014, 1543, 28-37.	2.2	8
70	Calcineurin homologous proteins regulate the membrane localization and activity of sodium/proton exchangers in <i>C. elegans</i> . <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C233-C242.	4.6	7
71	Mucin-Type O-Glycosylation in <i>C.elegans</i> Is Initiated by a Family of Glycosyltransferases.. <i>Trends in Glycoscience and Glycotechnology</i> , 2001, 13, 463-479.	0.1	7
72	Biosynthesis of a low-molecular-mass rat submandibular gland mucin glycoprotein in COS7 cells. <i>Biochemical Journal</i> , 1997, 323, 497-502.	3.7	6

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73	Distinct roles for two <i>Caenorhabditis elegans</i> acid-sensing ion channels in an ultradian clock. <i>ELife</i> , 0, 11, .	6.0	6
74	H(OH), H(OH), H(OH): a holiday perspective. Focus on "Mouse Slc4a11 expressed in <i>Xenopus</i> oocytes is an ideally selective H ⁺ /OH ⁻ conductance pathway that is stimulated by rises in intracellular and extracellular pH". <i>American Journal of Physiology - Cell Physiology</i> , 2016, 311, C942-C944.	4.6	5
75	The inositol 1,4,5-trisphosphate receptor in <i>C. elegans</i> . <i>Environmental Sciences Europe</i> , 2012, 1, 321-328.	5.5	4
76	Membrane ion transport in non-excitable tissues. <i>WormBook</i> , 2014, , 1-22.	5.3	4
77	An Anoxia-starvation Model for Ischemia/Reperfusion in <i>C. elegans</i> . <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	2
78	Defining the Role of Mitochondrial Fission in Corneal Myofibroblast Differentiation. , 2022, 63, 2.		2
79	<i>C. elegans</i> NHX ² influences nutrient uptake and insulin signaling. <i>FASEB Journal</i> , 2006, 20, A843.	0.5	1
80	A T231E Mutant that Mimics Pathologic Phosphorylation of Tau in Alzheimer's disease Causes Activation of the Mitochondrial Unfolded Protein Response in touch neurons. <i>MicroPublication Biology</i> , 2020, 2020, .	0.1	1
81	Splice variation of the cytoplasmic C-terminus of a <i>C. elegans</i> ClC channel alters functional properties and glutamate gate accessibility to extracellular ions. <i>FASEB Journal</i> , 2006, 20, .	0.5	0
82	Calcineurin homologous protein is required for a proton-activated muscle contraction in <i>Caenorhabditis elegans</i> . <i>FASEB Journal</i> , 2010, 24, 815.15.	0.5	0
83	Calcium-dependent regulation of proton signaling during a rhythmic behavior in <i>C. elegans</i> . <i>FASEB Journal</i> , 2010, 24, 815.14.	0.5	0