

Kulandaiappan Varadaraj

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

948
citations

567281

15
h-index

752698

20
g-index

26
all docs

26
docs citations

26
times ranked

692
citing authors

#	ARTICLE	IF	CITATIONS
1	Denaturants or cosolvents improve the specificity of PCR amplification of a G + C-rich DNA using genetically engineered DNA polymerases. <i>Gene</i> , 1994, 140, 1-5.	2.2	211
2	Regulation of Aquaporin Water Permeability in the Lens. , 2005, 46, 1393.		99
3	Intact AQPO performs cell-to-cell adhesion. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 1034-1039.	2.1	85
4	Role of Aquaporin 0 in lens biomechanics. <i>Biochemical and Biophysical Research Communications</i> , 2015, 462, 339-345.	2.1	51
5	The Effects of Age on Lens Transport. , 2013, 54, 7174.		48
6	Functional characterization of an AQPO missense mutation, R33C, that causes dominant congenital lens cataract, reveals impaired cell-to-cell adhesion. <i>Experimental Eye Research</i> , 2013, 116, 371-385.	2.6	46
7	Functional expression of aquaporins in embryonic, postnatal, and adult mouse lenses. <i>Developmental Dynamics</i> , 2007, 236, 1319-1328.	1.8	45
8	Spatial expression of aquaporin 5 in mammalian cornea and lens, and regulation of its localization by phosphokinase A. <i>Molecular Vision</i> , 2012, 18, 957-67.	1.1	43
9	The Effects of GPX-1 Knockout on Membrane Transport and Intracellular Homeostasis in the Lens. <i>Journal of Membrane Biology</i> , 2009, 227, 25-37.	2.1	38
10	Aquaporin 5 knockout mouse lens develops hyperglycemic cataract. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 333-338.	2.1	36
11	Aquaporin 0 plays a pivotal role in refractive index gradient development in mammalian eye lens to prevent spherical aberration. <i>Biochemical and Biophysical Research Communications</i> , 2014, 452, 986-991.	2.1	35
12	Unique and analogous functions of aquaporin 0 for fiber cell architecture and ocular lens transparency. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 1089-1097.	3.8	33
13	Lens aquaporins function as peroxiporins to facilitate membrane transport of hydrogen peroxide. <i>Biochemical and Biophysical Research Communications</i> , 2020, 524, 1025-1029.	2.1	31
14	Intact and N- or C-terminal end truncated AQPO function as open water channels and cell-to-cell adhesion proteins: End truncation could be a prelude for adjusting the refractive index of the lens to prevent spherical aberration. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2862-2877.	2.4	26
15	Aquaporin 5 promotes corneal wound healing. <i>Experimental Eye Research</i> , 2018, 172, 152-158.	2.6	22
16	Rapid Identification of Novel Inhibitors of the Human Aquaporinâ€1 Water Channel. <i>Chemical Biology and Drug Design</i> , 2016, 87, 794-805.	3.2	21
17	Aquaporin 0 Modulates Lens Gap Junctions in the Presence of Lens-Specific Beaded Filament Proteins. , 2017, 58, 6006.		19
18	Molecular mechanism of Aquaporin 0-induced fiber cell to fiber cell adhesion in the eye lens. <i>Biochemical and Biophysical Research Communications</i> , 2018, 506, 284-289.	2.1	18

#	ARTICLE	IF	CITATIONS
19	Deletion of Seventeen Amino Acids at the C-Terminal End of Aquaporin 0 Causes Distortion Aberration and Cataract in the Lenses of AQP0 ^{-/-} Mice. , 2019, 60, 858.		11
20	A predominant form of C-terminally end-cleaved AQP0 functions as an open water channel and an adhesion protein in AQP0 ^{-/-} mouse lens. Biochemical and Biophysical Research Communications, 2019, 511, 626-630.	2.1	8
21	C-Terminal End of Aquaporin 0 Regulates Lens Gap Junction Channel Function. , 2019, 60, 2525.		6
22	Development of a potent embryonic chick lens model for studying congenital cataracts in vivo. Communications Biology, 2021, 4, 325.	4.4	6
23	Positively charged amino acid residues in the extracellular loops A and C of lens aquaporin 0 interact with the negative charges in the plasma membrane to facilitate cell-to-cell adhesion. Experimental Eye Research, 2019, 185, 107682.	2.6	5
24	Deletion of beaded filament proteins or the C-terminal end of Aquaporin 0 causes analogous abnormal distortion aberrations in mouse lens. Experimental Eye Research, 2021, 209, 108645.	2.6	4
25	Cytoplasmic localization of transcripts of a complex G+C-rich crab satellite DNA. Chromosoma, 1994, 103, 423-431.	2.2	1
26	GPX1 knockout, not catalase knockout, causes accelerated abnormal optical aberrations and cataract in the aging lens.. Molecular Vision, 2022, 28, 11-20.	1.1	0