

# Comparison of the Water Transporting Properties of MIP

Journal of Membrane Biology

159, 29-39

DOI: [10.1007/s002329900266](https://doi.org/10.1007/s002329900266)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Aquaporin water channels in mammals. <i>Clinical and Experimental Nephrology</i> , 1997, 1, 247-253.	0.7	19
2	Finger-like projections of plasma membrane in the most senescent fiber cells of human lenses. <i>Current Eye Research</i> , 1998, 17, 1118-1123.	0.7	5
3	Purified lens major intrinsic protein (MIP) forms highly ordered tetragonal two-dimensional arrays by reconstitution. <i>Journal of Molecular Biology</i> , 1998, 279, 855-864.	2.0	84
4	Structural analysis of cloned plasma membrane proteins by freeze-fracture electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 11235-11240.	3.3	172
5	Functional and Morphological Correlates of Connexin50 Expressed in <i>Xenopus laevis</i> Oocytes. <i>Journal of General Physiology</i> , 1999, 113, 507-524.	0.9	101
6	The Role of MIP in Lens Fiber Cell Membrane Transport. <i>Journal of Membrane Biology</i> , 1999, 170, 191-203.	1.0	131
7	Cellular and Molecular Biology of the Aquaporin Water Channels. <i>Annual Review of Biochemistry</i> , 1999, 68, 425-458.	5.0	756
8	Purification and Functional Reconstitution of Soybean Nodulin 26. An Aquaporin with Water and Glycerol Transport Properties. <i>Biochemistry</i> , 1999, 38, 347-353.	1.2	195
9	Hyperbaric Oxygen in vivo Accelerates the Loss of Cytoskeletal Proteins and MIP26 in Guinea Pig Lens Nucleus. <i>Experimental Eye Research</i> , 1999, 68, 493-505.	1.2	47
10	Functional impairment of lens aquaporin in two families with dominantly inherited cataracts. <i>Human Molecular Genetics</i> , 2000, 9, 2329-2334.	1.4	123
11	Structure and function of aquaporin water channels. <i>American Journal of Physiology - Renal Physiology</i> , 2000, 278, F13-F28.	1.3	558
12	Structure and biochemistry of gap junctions. <i>Advances in Molecular and Cell Biology</i> , 2000, , 31-98.	0.1	20
13	Pentameric assembly of a neuronal glutamate transporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 8641-8646.	3.3	113
14	pH and Calcium Regulate the Water Permeability of Aquaporin 0. <i>Journal of Biological Chemistry</i> , 2000, 275, 6777-6782.	1.6	232
15	Plasma Membrane Intrinsic Proteins from Maize Cluster in Two Sequence Subgroups with Differential Aquaporin Activity. <i>Plant Physiology</i> , 2000, 122, 1025-1034.	2.3	306
16	Epithelial Organization of the Mammalian Lens. <i>Experimental Eye Research</i> , 2000, 71, 415-435.	1.2	112
17	The aquaporin sidedness revisited. <i>Journal of Molecular Biology</i> , 2000, 299, 1271-1278.	2.0	20
18	Surface Tongue-and-groove Contours on Lens MIP Facilitate Cell-to-cell Adherence. <i>Journal of Molecular Biology</i> , 2000, 300, 779-789.	2.0	149

#	ARTICLE	IF	CITATIONS
19	Chapter 1 discovery of the aquaporins and their impact on basic and clinical physiology. Current Topics in Membranes, 2001, 51, 1-38.	0.5	8
20	Glycation decreases calmodulin binding to lens transmembrane protein, MIP. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2001, 1536, 64-72.	1.8	21
21	Cloning and functional expression of an MIP (AQPO) homolog from killifish (Fundulus heteroclitus) lens. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R1994-R2003.	0.9	45
22	Cloning and Functional Characterization of a Novel Aquaporin from Xenopus laevis Oocytes. Journal of Biological Chemistry, 2002, 277, 40610-40616.	1.6	44
23	Aquaglyceroporins: Channel proteins with a conserved core, multiple functions, and variable surfaces. International Review of Cytology, 2002, 215, 75-104.	6.2	74
24	Passive water transport in biological pores. International Review of Cytology, 2002, 215, 203-230.	6.2	19
25	Construction of a 3D model of human lens fiber major intrinsic protein (MIP or AQPO) from human aquaporin-1 (AQP1). , 0, , .		0
26	Micro-domains of AQPO in Lens Equatorial Fibers. Experimental Eye Research, 2002, 75, 505-519.	1.2	77
27	Heterologous expression and topography of the main intrinsic protein (MIP) from rat lens. FEBS Letters, 2002, 512, 191-198.	1.3	7
28	pH-Dependent channel activity of heterologously-expressed main intrinsic protein (MIP) from rat lens. FEBS Letters, 2002, 512, 199-204.	1.3	13
29	A fascinating tail: cGMP activation of aquaporin-1 ion channels. Trends in Pharmacological Sciences, 2002, 23, 558-562.	4.0	44
30	Regulation of cloned, Ca <sup>2+</sup> -activated K <sup>+</sup> channels by cell volume changes. Pflugers Archiv European Journal of Physiology, 2002, 444, 167-177.	1.3	45
31	Passive water and urea permeability of a human Na <sup>+</sup> + glutamate cotransporter expressed in Xenopus oocytes. Journal of Physiology, 2002, 542, 817-828.	1.3	47
32	The ocular lens fiber membrane specific protein MIP/Aquaporin 0. The Journal of Experimental Zoology, 2003, 300A, 41-46.	1.4	23
33	Lens structure in MIP-deficient mice. The Anatomical Record, 2003, 273A, 714-730.	2.3	79
34	The molecular basis of water transport in the brain. Nature Reviews Neuroscience, 2003, 4, 991-1001.	4.9	685
35	Structure of Functional Single AQPO Channels in Phospholipid Membranes. Journal of Molecular Biology, 2003, 325, 201-210.	2.0	22
36	Water Permeability of C-Terminally Truncated Aquaporin 0 (AQPO 1-243) Observed in the Aging Human Lens. , 2003, 44, 4820.		64

#	ARTICLE	IF	CITATIONS
38	Role of Matrix and Cell Adhesion Molecules in Lens Differentiation. , 2004, , 245-260.		5
39	Lens Crystallins. , 2004, , 119-150.		10
41	The Lens: Historical and Comparative Perspectives. , 2004, , 3-26.		4
42	Lens Induction and Determination. , 2004, , 27-47.		7
43	Lens Cell Membranes. , 2004, , 151-172.		2
44	Lens Cell Proliferation: The Cell Cycle. , 2004, , 191-213.		5
45	Lens Fiber Differentiation. , 2004, , 214-244.		7
46	Growth Factors in Lens Development. , 2004, , 261-289.		10
47	Lens Regeneration. , 2004, , 290-312.		3
48	The Structure of the Vertebrate Lens. , 2004, , 71-118.		14
49	Lens Cell Cytoskeleton. , 2004, , 173-188.		4
50	Transcription Factors in Early Lens Development. , 2004, , 48-68.		4
51	Molecular Basis of pH and Ca <sup>2+</sup> Regulation of Aquaporin Water Permeability. Journal of General Physiology, 2004, 123, 573-580.	0.9	140
52	Interaction of major intrinsic protein (aquaporin-0) with fiber connexins in lens development. Journal of Cell Science, 2004, 117, 871-880.	1.2	54
53	Combined transport of water and ions through membrane channels. Biological Chemistry, 2004, 385, 921-6.	1.2	30
54	The channel architecture of aquaporin 0 at a 2.2-Å resolution. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14045-14050.	3.3	248
55	Aquaporin-0 membrane junctions reveal the structure of a closed water pore. Nature, 2004, 429, 193-197.	13.7	347
56	Post-translational Modifications of Aquaporin 0 (AQP0) in the Normal Human Lens: Spatial and Temporal Occurrence. Biochemistry, 2004, 43, 9856-9865.	1.2	104

#	ARTICLE	IF	CITATIONS
57	The lens: local transport and global transparency. <i>Experimental Eye Research</i> , 2004, 78, 689-698.	1.2	62
58	Aquaporins: water channel proteins of the cell membrane. <i>Progress in Histochemistry and Cytochemistry</i> , 2004, 39, 1-83.	5.1	342
59	Water transport in the brain: Role of cotransporters. <i>Neuroscience</i> , 2004, 129, 1029-1042.	1.1	105
60	Aquaporin-0 Membrane Junctions Form Upon Proteolytic Cleavage. <i>Journal of Molecular Biology</i> , 2004, 342, 1337-1345.	2.0	119
61	Novel roles for aquaporins as gated ion channels. <i>Advances in Molecular and Cell Biology</i> , 2004, , 351-379.	0.1	6
62	The Lens. <i>Advances in Organ Biology</i> , 2005, 10, 149-179.	0.1	0
63	The Possible Role of Aquaporin 0 in Lens Physiology. , 2005, , 11-19.		0
64	Noninvasive measurement of cell volume changes by negative staining. <i>Journal of Biomedical Optics</i> , 2005, 10, 064017.	1.4	13
65	Structure-Function Relationships in Aquaporins. <i>Seminars in Nephrology</i> , 2006, 26, 189-199.	0.6	4
66	Crystal Structure of AqpZ Tetramer Reveals Two Distinct Arg-189 Conformations Associated with Water Permeation through the Narrowest Constriction of the Water-conducting Channel. <i>Journal of Biological Chemistry</i> , 2006, 281, 454-460.	1.6	101
67	Co-axial Association of Recombinant Eye Lens Aquaporin-0 Observed in Loosely Packed 3D Crystals. <i>Journal of Molecular Biology</i> , 2006, 355, 605-611.	2.0	37
68	Water Transport in AQPO Aquaporin: Molecular Dynamics Studies. <i>Journal of Molecular Biology</i> , 2006, 360, 285-296.	2.0	44
69	Aquaporin gating. <i>Current Opinion in Structural Biology</i> , 2006, 16, 447-456.	2.6	117
70	The structure of aquaporins. <i>Quarterly Reviews of Biophysics</i> , 2006, 39, 361-396.	2.4	291
71	Zinc Modulation of Water Permeability Reveals that Aquaporin 0 Functions as a Cooperative Tetramer. <i>Journal of General Physiology</i> , 2007, 130, 457-464.	0.9	41
72	The structural basis of water permeation and proton exclusion in aquaporins (Review). <i>Molecular Membrane Biology</i> , 2007, 24, 366-374.	2.0	90
73	Functional expression of aquaporins in embryonic, postnatal, and adult mouse lenses. <i>Developmental Dynamics</i> , 2007, 236, 1319-1328.	0.8	45
74	The supramolecular architecture of junctional microdomains in native lens membranes. <i>EMBO Reports</i> , 2007, 8, 51-55.	2.0	100

#	ARTICLE	IF	CITATIONS
75	Interactions of connexins with other membrane channels and transporters. <i>Progress in Biophysics and Molecular Biology</i> , 2007, 94, 233-244.	1.4	42
76	The Lens Circulation. <i>Journal of Membrane Biology</i> , 2007, 216, 1-16.	1.0	225
77	Turnover Rate of the $\hat{1}^3$ -Aminobutyric Acid Transporter GAT1. <i>Journal of Membrane Biology</i> , 2007, 220, 33-51.	1.0	29
78	Invertebrate aquaporins: a review. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2008, 178, 935-955.	0.7	150
79	Functions of aquaporins in the eye. <i>Progress in Retinal and Eye Research</i> , 2008, 27, 420-433.	7.3	165
80	Polymorphic Assemblies and Crystalline Arrays of Lens Tetraspanin MP20. <i>Journal of Molecular Biology</i> , 2008, 376, 380-392.	2.0	8
81	Functional characterization of a human aquaporin 0 mutation that leads to a congenital dominant lens cataract. <i>Experimental Eye Research</i> , 2008, 87, 9-21.	1.2	53
82	Ultrastructural analysis of damage to nuclear fiber cell membranes in advanced age-related cataracts from India. <i>Experimental Eye Research</i> , 2008, 87, 147-158.	1.2	21
83	Aquaporin 0 $\hat{a}$ ~Calmodulin Interaction and the Effect of Aquaporin 0 Phosphorylation. <i>Biochemistry</i> , 2008, 47, 339-347.	1.2	63
84	Dynamic control of slow water transport by aquaporin 0: Implications for hydration and junction stability in the eye lens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14430-14435.	3.3	74
85	Chapter 2 Ocular Aquaporins and Aqueous Humor Dynamics. <i>Current Topics in Membranes</i> , 2008, 62, 47-70.	0.5	6
86	Chapter 3 The Role of Gap Junction Channels in the Ciliary Body Secretory Epithelium. <i>Current Topics in Membranes</i> , 2008, 62, 71-96.	0.5	4
87	Relative CO <sub>2</sub> /NH <sub>3</sub> selectivities of AQP1, AQP4, AQP5, AmtB, and RhAG. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5406-5411.	3.3	235
88	Crystal Structure of a Yeast Aquaporin at 1.15 Å... Reveals a Novel Gating Mechanism. <i>PLoS Biology</i> , 2009, 7, e1000130.	2.6	150
89	Permeation of water through the KcsA K <sup>+</sup> channel. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 437-448.	1.5	28
90	Differentiation-dependent modification and subcellular distribution of aquaporin-0 suggests multiple functional roles in the rat lens. <i>Differentiation</i> , 2009, 77, 70-83.	1.0	37
91	Intact AQPO performs cell-to-cell adhesion. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 1034-1039.	1.0	85
92	Structural Function of MIP/Aquaporin 0 in the Eye Lens; Genetic Defects Lead to Congenital Inherited Cataracts. <i>Handbook of Experimental Pharmacology</i> , 2009, , 265-297.	0.9	72

#	ARTICLE	IF	CITATIONS
93	Lens Gap Junctions in Growth, Differentiation, and Homeostasis. <i>Physiological Reviews</i> , 2010, 90, 179-206.	13.1	205
94	Crystal structures of all-alpha type membrane proteins. <i>European Biophysics Journal</i> , 2010, 39, 723-755.	1.2	27
95	Structural insights into eukaryotic aquaporin regulation. <i>FEBS Letters</i> , 2010, 584, 2580-2588.	1.3	137
96	Mutations at key pore-lining positions differentiate the water permeability of fish lens aquaporin from other vertebrates. <i>FEBS Letters</i> , 2010, 584, 4797-4801.	1.3	6
97	Two Distinct Aquaporin Os Required for Development and Transparency of the Zebrafish Lens. , 2010, 51, 6582.		39
98	Cloning and characterization of a zebrafish homologue of human AQP1: a bifunctional water and gas channel. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R1163-R1174.	0.9	38
99	Exploring Transmembrane Diffusion Pathways With Molecular Dynamics. <i>Physiology</i> , 2010, 25, 142-154.	1.6	42
100	Novel Fatty Acid Acylation of Lens Integral Membrane Protein Aquaporin-0. <i>Biochemistry</i> , 2010, 49, 9858-9865.	1.2	53
101	Dynamic and energetic mechanisms for the distinct permeation rate in AQP1 and AQP0. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 318-326.	1.4	24
102	Transgenic expression of AQP1 in the fiber cells of AQP0 knockout mouse: Effects on lens transparency. <i>Experimental Eye Research</i> , 2010, 91, 393-404.	1.2	38
103	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.	1.8	33
104	Functional analysis of novel aquaporins from <i>Fasciola gigantica</i> . <i>Molecular and Biochemical Parasitology</i> , 2011, 175, 144-153.	0.5	14
105	Water flux through human aquaporin 1: inhibition by intracellular furosemide and maximal response with high osmotic gradients. <i>European Biophysics Journal</i> , 2011, 40, 737-746.	1.2	28
106	Aquaporin-0 Interacts with the FERM Domain of Ezrin/Radixin/Moesin Proteins in the Ocular Lens. , 2011, 52, 5079.		39
107	A counterpoint between computer simulations and biological experiments to train new members of a laboratory of physiological sciences. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2012, 36, 345-351.	0.8	4
108	Structure, function and translational relevance of aquaporin dual water and ion channels. <i>Molecular Aspects of Medicine</i> , 2012, 33, 553-561.	2.7	70
109	Human AQP1 Is a Constitutively Open Channel that Closes by a Membrane-Tension-Mediated Mechanism. <i>Biophysical Journal</i> , 2013, 104, 85-95.	0.2	42
110	Functional characterization of an AQP0 missense mutation, R33C, that causes dominant congenital lens cataract, reveals impaired cell-to-cell adhesion. <i>Experimental Eye Research</i> , 2013, 116, 371-385.	1.2	46

#	ARTICLE	IF	CITATIONS
111	Allosteric mechanism of water-channel gating by Ca <sup>2+</sup> -calmodulin. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1085-1092.	3.6	102
112	The water permeability of lens aquaporin-0 depends on its lipid bilayer environment. <i>Experimental Eye Research</i> , 2013, 113, 32-40.	1.2	53
113	Verification and spatial localization of aquaporin-5 in the ocular lens. <i>Experimental Eye Research</i> , 2013, 108, 94-102.	1.2	40
114	Relative CO <sub>2</sub> /NH <sub>3</sub> selectivities of mammalian aquaporins. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 304, C985-C994.	2.1	95
115	Movement of NH <sub>3</sub> through the human urea transporter B: a new gas channel. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 304, F1447-F1457.	1.3	27
116	Regulation of AQPO water permeability is enhanced by cooperativity. <i>Journal of General Physiology</i> , 2013, 141, 287-295.	0.9	31
117	SILICON MULTIMODE PHOTONIC INTEGRATED DEVICES FOR ON-CHIP MODE-DIVISION-MULTIPLEXED OPTICAL INTERCONNECTS. <i>Progress in Electromagnetics Research</i> , 2013, 143, 773-819.	1.6	109
118	In Vivo Analysis of Aquaporin 0 Function in Zebrafish: Permeability Regulation Is Required for Lens Transparency. , 2013, 54, 5136.		32
119	Aquaporin-0 Targets Interlocking Domains to Control the Integrity and Transparency of the Eye Lens. , 2014, 55, 1202.		46
120	A junction of transparency. Focus on Functional effects of Cx50 mutations associated with congenital cataracts. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 306, C200-C201.	2.1	2
121	The Physiology and Pathobiology of the Lens. , 2014, , 2072-2083.		3
122	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.	1.1	26
123	Insights into structural mechanisms of gating induced regulation of aquaporins. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 114, 69-79.	1.4	29
124	Water channel structures analysed by electron crystallography. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1605-1613.	1.1	28
125	Identification of 3-chloro-1,2-propanediol using molecularly imprinted composite solid-phase extraction materials. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6319-6327.	1.9	12
126	Prediction of Aquaporin Function by Integrating Evolutionary and Functional Analyses. <i>Journal of Membrane Biology</i> , 2014, 247, 107-125.	1.0	58
127	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.	1.0	35
128	Aquaporins in the eye: Expression, function, and roles in ocular disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1513-1523.	1.1	100



#	ARTICLE	IF	CITATIONS
129	Aquaporin-Based Biomimetic Polymeric Membranes: Approaches and Challenges. <i>Membranes</i> , 2015, 5, 307-351.	1.4	54
130	The mobility of single-file water molecules is governed by the number of H-bonds they may form with channel-lining residues. <i>Science Advances</i> , 2015, 1, e1400083.	4.7	135
131	Auto-Adhesion Potential of Extraocular AqpO during Teleost Development. <i>PLoS ONE</i> , 2016, 11, e0154592.	1.1	5
132	Spatial distributions of phosphorylated membrane proteins aquaporin 0 and MP20 across young and aged human lenses. <i>Experimental Eye Research</i> , 2016, 149, 59-65.	1.2	8
133	Spreading of porous vesicles subjected to osmotic shocks: the role of aquaporins. <i>Soft Matter</i> , 2016, 12, 1601-1609.	1.2	14
134	Molecular Biology of Aquaporins. <i>Advances in Experimental Medicine and Biology</i> , 2017, 969, 1-34.	0.8	77
135	Identification of a direct Aquaporin-0 binding site in the lens-specific cytoskeletal protein filensin. <i>Experimental Eye Research</i> , 2017, 159, 23-29.	1.2	17
136	Role of Pore-Lining Residues in Defining the Rate of Water Conduction by Aquaporin-0. <i>Biophysical Journal</i> , 2017, 112, 953-965.	0.2	14
137	Interactions between Aquaporin Proteins and Block Copolymer Matrixes. , 2017, , .		0
138	Aquaporin Protein-Protein Interactions. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2255.	1.8	58
139	The Role of Aquaporins in Ocular Lens Homeostasis. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2693.	1.8	36
140	Aquaporin 0 Modulates Lens Gap Junctions in the Presence of Lens-Specific Beaded Filament Proteins. , 2017, 58, 6006.		19
141	Fundamental structural and functional properties of Aquaporin ion channels found across the kingdoms of life. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2018, 45, 401-409.	0.9	35
142	Dynamic functional contribution of the water channel AQP5 to the water permeability of peripheral lens fiber cells. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 314, C191-C201.	2.1	27
143	Aquaporins: More Than Functional Monomers in a Tetrameric Arrangement. <i>Cells</i> , 2018, 7, 209.	1.8	33
144	<i>Lithobates catesbeianus</i> (American Bullfrog) oocytes: a novel heterologous expression system for aquaporins. <i>Biology Open</i> , 2018, 7, .	0.6	3
145	A novel MIP mutation in a Chinese family with congenital cataract. <i>Ophthalmic Genetics</i> , 2018, 39, 473-476.	0.5	3
146	Aquaporin-Based Biomimetic and Bioinspired Membranes for New Frontiers in Sustainable Water Treatment Technology: Approaches and Challenges. <i>Polymer Science - Series A</i> , 2018, 60, 429-450.	0.4	13

#	ARTICLE	IF	CITATIONS
147	Plant and Mammal Aquaporins: Same but Different. International Journal of Molecular Sciences, 2018, 19, 521.	1.8	55
148	Mechanisms of Aquaporin-Facilitated Cancer Invasion and Metastasis. Frontiers in Chemistry, 2018, 6, 135.	1.8	87
149	Temperature-dependent viscosity dominated transport control through AQP1 water channel. Journal of Theoretical Biology, 2019, 480, 92-98.	0.8	1
150	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.	1.2	5
151	Experimental and Simulation Studies of Aquaporin 0 Water Permeability and Regulation. Chemical Reviews, 2019, 119, 6015-6039.	23.0	25
152	Deletion of Seventeen Amino Acids at the C-Terminal End of Aquaporin 0 Causes Distortion Aberration and Cataract in the Lenses of AQP0 <sup>-/-</sup> Mice. , 2019, 60, 858.		11
153	Cooperativity and allostery in aquaporin 0 regulation by Ca <sup>2+</sup> . Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 988-996.	1.4	16
154	Molecular aspects of aquaporins. Vitamins and Hormones, 2020, 113, 129-181.	0.7	13
155	Aquaporins and male (in)fertility: Expression and role throughout the male reproductive tract. Archives of Biochemistry and Biophysics, 2020, 679, 108222.	1.4	20
156	Micropipette Aspiration-Based Assessment of Single Channel Water Permeability. Biotechnology Journal, 2020, 15, e1900450.	1.8	15
157	Response of the PI3K-AKT signalling pathway to low salinity and the effect of its inhibition mediated by wortmannin on ion channels in turbot <i>Scophthalmus maximus</i> . Aquaculture Research, 2020, 51, 2676-2686.	0.9	11
158	Aquaporin water channels as regulators of cell-cell adhesion proteins. American Journal of Physiology - Cell Physiology, 2021, 320, C771-C777.	2.1	20
159	Adaptable and Multifunctional Ion-Conducting Aquaporins. Annual Review of Plant Biology, 2021, 72, 703-736.	8.6	60
160	The Lens. , 2011, , 131-163.		10
162	Calmodulin Bound Aquaporin-0 Reveals Two Distinct Energy Profiles. Computational Molecular Bioscience, 2016, 06, 66-79.	0.6	0
163	PKC putative phosphorylation site Ser235 is required for MIP/AQP0 translocation to the plasma membrane. Molecular Vision, 2008, 14, 1006-14.	1.1	22
164	The effect of the interaction between aquaporin 0 (AQP0) and the filensin tail region on AQP0 water permeability. Molecular Vision, 2011, 17, 3191-9.	1.1	19
165	Spatial expression of aquaporin 5 in mammalian cornea and lens, and regulation of its localization by phosphokinase A. Molecular Vision, 2012, 18, 957-67.	1.1	43

#	ARTICLE	IF	CITATIONS
166	Aquaporin ion conductance properties defined by membrane environment, protein structure, and cell physiology. <i>Biophysical Reviews</i> , 2022, 14, 181-198.	1.5	8
167	Signaling Mechanisms and Pharmacological Modulators Governing Diverse Aquaporin Functions in Human Health and Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1388.	1.8	50
168	Beyond the Channels: Adhesion Functions of Aquaporin 0 and Connexin 50 in Lens Development. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 866980.	1.8	5
169	Lens Aquaporins in Health and Disease: Location is Everything!. <i>Frontiers in Physiology</i> , 2022, 13, 882550.	1.3	7
170	Biophysical quantification of unitary solute and solvent permeabilities to enable translation to membrane science. <i>Journal of Membrane Science</i> , 2022, , 121308.	4.1	2
171	Classification and Gene Structure of Aquaporins. <i>Advances in Experimental Medicine and Biology</i> , 2023, , 1-13.	0.8	1
172	Aquaporins and Ion Channels as Dual Targets in the Design of Novel Glioblastoma Therapeutics to Limit Invasiveness. <i>Cancers</i> , 2023, 15, 849.	1.7	2