Structure of the connexin 26 gap junction channel at 3.5

Nature 458, 597-602 DOI: 10.1038/nature07869

Citation Report

#	Article	IF	CITATIONS
1	Gap junctions as electrical synapses. Journal of Neurocytology, 1997, 26, 349-366.	1.6	181
2	Gap Junctions. Cold Spring Harbor Perspectives in Biology, 2009, 1, a002576-a002576.	2.3	498
3	The N Terminus of Connexin37 Contains an α-Helix That Is Required for Channel Function. Journal of Biological Chemistry, 2009, 284, 20418-20427.	1.6	21
4	Post-translational modifications of connexin26 revealed by mass spectrometry. Biochemical Journal, 2009, 424, 385-398.	1.7	54
5	Pannexins, distant relatives of the connexin family with specific cellular functions?. BioEssays, 2009, 31, 953-974.	1.2	151
6	A description of the structural determination procedures of a gap junction channel at 3.5â€Ã resolution. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 758-766.	2.5	23
7	Connexin channels and phospholipids: association and modulation. BMC Biology, 2009, 7, 52.	1.7	43
8	The effects of lipids on channel function. Journal of Biology, 2009, 8, 86.	2.7	17
9	NMR Characterization of Membrane Proteinâ^'Detergent Micelle Solutions by Use of Microcoil Equipment. Journal of the American Chemical Society, 2009, 131, 18450-18456.	6.6	27
10	Connexin-26 mutations in deafness and skin disease. Expert Reviews in Molecular Medicine, 2009, 11, e35.	1.6	99
11	Tuning microbial hosts for membrane protein production. Microbial Cell Factories, 2009, 8, 69.	1.9	64
12	Strategies for The Cloning and Expression of Membrane Proteins. Advances in Protein Chemistry and Structural Biology, 2009, 76, 43-86.	1.0	10
13	Gap junction diseases of the skin: novel insights from new mutations. Expert Review of Dermatology, 2009, 4, 455-468.	0.3	7
14	Conformational changes in a pore-forming region underlie voltage-dependent "loop gating―of an unapposed connexin hemichannel. Journal of General Physiology, 2009, 133, 555-570.	0.9	57
15	Gating on the outside. Journal of General Physiology, 2009, 133, 549-553.	0.9	3
16	Chapter 2 Biological and Biophysical Properties of Vascular Connexin Channels. International Review of Cell and Molecular Biology, 2009, 278, 69-118.	1.6	82
17	極低æ,©é›»åé¡•å¾®éŧã,'用ã"ã¥é›»åç·šçµæ™¶å¦. Kagaku To Seibutsu, 2009, 47, 786-793.	0.0	0
18	Mechanisms of Gap Junction Traffic in Health and Disease. Journal of Cardiovascular Pharmacology, 2009, 54, 263-272.	0.8	44

ιτλτιώνι Ρερώ

#	Article	IF	Citations
20	Structures of membrane proteins. Quarterly Reviews of Biophysics, 2010, 43, 65-158.	2.4	157
21	ATP-mediated cell–cell signaling in the organ of Corti: the role of connexin channels. Purinergic Signalling, 2010, 6, 167-187.	1.1	72
22	Dominant connexin26 mutants associated with human hearing loss have trans-dominant effects on connexin30. Neurobiology of Disease, 2010, 38, 226-236.	2.1	44
23	Structural and functional studies of gap junction channels. Current Opinion in Structural Biology, 2010, 20, 423-430.	2.6	63
24	The gap junction proteome and its relationship to disease. Trends in Cell Biology, 2010, 20, 92-101.	3.6	238
25	Cell membrane permeabilization via connexin hemichannels in living and dying cells. Experimental Cell Research, 2010, 316, 2377-2389.	1.2	168
26	Detecting and estimating rectification of gap junction conductance based on simulations of dual-cell recordings from a pair and a network of coupled cells. Journal of Theoretical Biology, 2010, 265, 104-114.	0.8	11
27	Structure determination using poorly diffracting membrane-protein crystals: the H ⁺ -ATPase and Na ⁺ ,K ⁺ -ATPase case history. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 309-313.	2.5	15
28	Diversity and properties of connexin gap junction channels. Medicina (Lithuania), 2010, 46, 1.	0.8	80
29	Differentially altered Ca2+ regulation and Ca2+ permeability in Cx26 hemichannels formed by the A40V and C45E mutations that cause keratitis ichthyosis deafness syndrome. Journal of General Physiology, 2010, 136, 47-62.	0.9	127
30	The human deafness-associated connexin 30 T5M mutation causes mild hearing loss and reduces biochemical coupling among cochlear non-sensory cells in knock-in mice. Human Molecular Genetics, 2010, 19, 4759-4773.	1.4	58
31	Lipid bilayer regulation of membrane protein function: gramicidin channels as molecular force probes. Journal of the Royal Society Interface, 2010, 7, 373-395.	1.5	265
32	Mechanosensitivity of ion channels based on protein–lipid interactions. Journal of the Royal Society Interface, 2010, 7, S307-20.	1.5	40
33	Quality assessment of protein model-structures using evolutionary conservation. Bioinformatics, 2010, 26, 1299-1307.	1.8	46
34	<i>CJB2</i> and <i>CJB6</i> Genes: Molecular Study and Identification of Novel <i>CJB2</i> Mutations in the Hearing-Impaired Argentinean Population. Audiology and Neuro-Otology, 2010, 15, 194-202.	0.6	23
35	AnEscherichia coli-Based Cell-Free System for Large-Scale Production of Functional Mammalian Membrane Proteins Suitable for X-Ray Crystallography. Journal of Molecular Microbiology and Biotechnology, 2010, 18, 85-91.	1.0	17
36	Gap Junction Disorders of Myelinating Cells. Reviews in the Neurosciences, 2010, 21, 397-419.	1.4	23
37	Functional Analysis of a Novel I71N Mutation in the <i>CJB2</i> Gene Among Southern Egyptians Causing Autosomal Recessive Hearing Loss. Cellular Physiology and Biochemistry, 2010, 26, 959-966	1.1	39

	CHAIION		
#	ARTICLE	IF	Citations
38	Inner ear connexins, intercellular signalling and deafness. Audiological Medicine, 2010, 8, 50-55.	0.4	0
39	Pannexin1 and Pannexin2 Channels Show Quaternary Similarities to Connexons and Different Oligomerization Numbers from Each Other. Journal of Biological Chemistry, 2010, 285, 24420-24431.	1.6	134
40	SCAM analysis of Panx1 suggests a peculiar pore structure. Journal of General Physiology, 2010, 136, 515-527.	0.9	75
41	Voltage-dependent facilitation of Cx46 hemichannels. American Journal of Physiology - Cell Physiology, 2010, 298, C132-C139.	2.1	11
43	Connexin Modulators and Their Potential Targets under the Magnifying Glass. Current Medicinal Chemistry, 2010, 17, 4191-4230.	1.2	52
44	Optimizing the Solution Conditions to Solve the Structure of the Connexin43 Carboxyl Terminus Attached to the 4thTransmembrane Domain in Detergent Micelles. Cell Communication and Adhesion, 2010, 17, 23-33.	1.0	8
46	The year in arrhythmias—2009: Part I. Heart Rhythm, 2010, 7, 417-426.	0.3	3
47	Analysis of Four Connexin26 Mutant Gap Junctions and Hemichannels Reveals Variations in Hexamer Stability. Biophysical Journal, 2010, 98, 1809-1819.	0.2	22
48	The Role of Amino Terminus of Mouse Cx50 in Determining Transjunctional Voltage-Dependent Gating and Unitary Conductance. Biophysical Journal, 2010, 99, 2077-2086.	0.2	28
49	Design, Synthesis, and Properties of Branch-Chained Maltoside Detergents for Stabilization and Crystallization of Integral Membrane Proteins: Human Connexin 26. Langmuir, 2010, 26, 8690-8696.	1.6	36
50	Connexin-26 Is a Key Factor Mediating Gemcitabine Bystander Effect. Molecular Cancer Therapeutics, 2011, 10, 505-517.	1.9	33
51	Occludin Protein Family: Oxidative Stress and Reducing Conditions. Antioxidants and Redox Signaling, 2011, 15, 1195-1219.	2.5	117
52	Tryptophan Scanning Mutagenesis of the First Transmembrane Domain ofÂthe Innexin Shaking-B(Lethal). Biophysical Journal, 2011, 101, 2408-2416.	0.2	27
53	Dominant Cx26 mutants associated with hearing loss have dominant-negative effects on wild type Cx26. Molecular and Cellular Neurosciences, 2011, 47, 71-78.	1.0	26
54	Electron tomographic analysis of gap junctions in lateral giant fibers of crayfish. Journal of Structural Biology, 2011, 175, 49-61.	1.3	10
55	Asymmetric Configurations and N-terminal Rearrangements in Connexin26 Gap Junction Channels. Journal of Molecular Biology, 2011, 405, 724-735.	2.0	63
56	Two-Dimensional Kinetics of Inter-Connexin Interactions from Single-Molecule Force Spectroscopy. Journal of Molecular Biology, 2011, 412, 72-79.	2.0	11
57	Searching for Digenic Inheritance in Deaf Brazilian Individuals Using the Multiplex Ligation-Dependent Probe Amplification Technique. Genetic Testing and Molecular Biomarkers, 2011, 15, 849-853.	0.3	31

#	Article	IF	CITATIONS
58	Connexins and the gap in context. Integrative Biology (United Kingdom), 2011, 3, 255.	0.6	30
59	Gap Junction Hemichannel Interactions with Zwitterionic Lipid, Anionic Lipid, and Cholesterol: Molecular Simulation Studies. Biochemistry, 2011, 50, 1492-1504.	1.2	22
60	A Novel Missense Mutation in the Connexin30 Causes Nonsyndromic Hearing Loss. PLoS ONE, 2011, 6, e21473.	1.1	21
61	BAAV Mediated GJB2 Gene Transfer Restores Gap Junction Coupling in Cochlear Organotypic Cultures from Deaf Cx26Sox10Cre Mice. PLoS ONE, 2011, 6, e23279.	1.1	69
62	Molecular interaction and functional regulation of connexin50 gap junctions by calmodulin. Biochemical Journal, 2011, 435, 711-722.	1.7	45
63	Different domains are critical for oligomerization compatibility of different connexins. Biochemical Journal, 2011, 436, 35-43.	1.7	15
64	A novel mutation in the connexin 26 gene (<i>GJB2</i>) in a child with clinical and histological features of keratitis–ichthyosis–deafness (KID) syndrome. Clinical and Experimental Dermatology, 2011, 36, 142-148.	0.6	31
65	Molecular analysis of connexin26 asparagine14 mutations associated with syndromic skin phenotypes. Experimental Dermatology, 2011, 20, 408-412.	1.4	22
66	Intercellular channels in animals. Biophysics (Russian Federation), 2011, 56, 457-463.	0.2	0
67	Comprehensive analysis of host gene expression in Autographa californica nucleopolyhedrovirus-infected Spodoptera frugiperda cells. Virology, 2011, 412, 167-178.	1.1	59
68	Camillo Golgi and Santiago Ramon y Cajal: The anatomical organization of the cortex of the cerebellur cerebellum. Can the neuron doctrine still support our actual knowledge on the cerebellar structural arrangement?. Brain Research Reviews, 2011, 66, 16-34.	9.1	17
69	Ca2+ homeostasis defects and hereditary hearing loss. BioFactors, 2011, 37, 182-188.	2.6	20
70	Structure of the gap junction channel and its implications for its biological functions. Cellular and Molecular Life Sciences, 2011, 68, 1115-1129.	2.4	115
71	Structural physiology based on electron crystallography. Protein Science, 2011, 20, 806-817.	3.1	11
72	Two Iranian families with a novel mutation in <i>GJB2</i> causing autosomal dominant nonsyndromic hearing loss. American Journal of Medical Genetics, Part A, 2011, 155, 1202-1211.	0.7	9
73	Human dermal fibroblasts derived from oculodentodigital dysplasia patients suggest that patients may have woundâ€healing defects. Human Mutation, 2011, 32, 456-466.	1.1	38
74	Regulation of blood-testis barrier dynamics by desmosome, gap junction, hemidesmosome and polarity proteins. Spermatogenesis, 2011, 1, 105-115.	0.8	68
75	Eye lens membrane junctional microdomains: a comparison between healthy and pathological cases. New Journal of Physics, 2011, 13, 085016.	1.2	23

#	Article	IF	CITATIONS
76	A functional channel is necessary for growth suppression by Cx37. Journal of Cell Science, 2011, 124, 2448-2456.	1.2	27
77	Not what you thought: How H+ ions combine with taurine or other aminosulfonates to close Cx26 channels. Journal of General Physiology, 2011, 138, 377-380.	0.9	5
78	Ion access pathway to the transmembrane pore in P2X receptor channels. Journal of General Physiology, 2011, 137, 579-590.	0.9	62
79	Pannexin channels are not gap junction hemichannels. Channels, 2011, 5, 193-197.	1.5	305
80	The connexin26 S17F mouse mutant represents a model for the human hereditary keratitis-ichthyosis-deafness syndrome. Human Molecular Genetics, 2011, 20, 28-39.	1.4	74
81	The Role of Gap Junctions in Charcot-Marie-Tooth Disease. Journal of Neuroscience, 2011, 31, 17753-17760.	1.7	38
82	Environmental toxicants and male reproductive function. Spermatogenesis, 2011, 1, 2-13.	0.8	127
83	Lens intracellular hydrostatic pressure is generated by the circulation of sodium and modulated by gap junction coupling. Journal of General Physiology, 2011, 137, 507-520.	0.9	81
84	Atomic Force Microscopy of Connexin40 Gap Junction Hemichannels Reveals Calcium-dependent Three-dimensional Molecular Topography and Open-Closed Conformations of Both the Extracellular and Cytoplasmic Faces. Journal of Biological Chemistry, 2011, 286, 22139-22146.	1.6	30
85	Asparagine 175 of Connexin32 Is a Critical Residue for Docking and Forming Functional Heterotypic Gap Junction Channels with Connexin26. Journal of Biological Chemistry, 2011, 286, 19672-19681.	1.6	43
86	Molecular dynamics simulations of the Cx26 hemichannel: Evaluation of structural models with Brownian dynamics. Journal of General Physiology, 2011, 138, 475-493.	0.9	79
87	Claudins: Control of Barrier Function and Regulation in Response to Oxidant Stress. Antioxidants and Redox Signaling, 2011, 15, 1179-1193.	2.5	83
88	Different consequences of cataract-associated mutations at adjacent positions in the first extracellular boundary of connexin50. American Journal of Physiology - Cell Physiology, 2011, 300, C1055-C1064.	2.1	39
89	A Genetically Encoded Tag for Correlated Light and Electron Microscopy of Intact Cells, Tissues, and Organisms. PLoS Biology, 2011, 9, e1001041.	2.6	731
90	Electron crystallography for structural and functional studies of membrane proteins. Microscopy (Oxford, England), 2011, 60, S149-S159.	0.7	16
91	Mechanism for modulation of gating of connexin26-containing channels by taurine. Journal of General Physiology, 2011, 138, 321-339.	0.9	28
92	Mechanism of inhibition of connexin channels by the quinine derivative <i>N</i> -benzylquininium. Journal of General Physiology, 2012, 139, 69-82.	0.9	20
93	An intercellular pathway for glucose transport into mouse oocytes. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E1511-E1518.	1.8	62

#	Article	IF	Citations
94	Direct Observation of Protein Microcrystals in Crystallization Buffer by Atmospheric Scanning Electron Microscopy. International Journal of Molecular Sciences, 2012, 13, 10553-10567.	1.8	24
95	Permeation of Calcium through Purified Connexin 26 Hemichannels. Journal of Biological Chemistry, 2012, 287, 40826-40834.	1.6	80
96	Structure and functional studies of N-terminal Cx43 mutants linked to oculodentodigital dysplasia. Molecular Biology of the Cell, 2012, 23, 3312-3321.	0.9	41
97	Green Fluorescent Protein Changes the Conductance of Connexin 43 (Cx43) Hemichannels Reconstituted in Planar Lipid Bilayers. Journal of Biological Chemistry, 2012, 287, 2877-2886.	1.6	17
98	Permeation Pathway of Homomeric Connexin 26 and Connexin 30 Channels Investigated by Molecular Dynamics. Journal of Biomolecular Structure and Dynamics, 2012, 29, 985-998.	2.0	50
99	Structure of components of an intercellular channel complex in sporulating <i>Bacillus subtilis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5441-5445.	3.3	54
100	Polyamine sensitivity of gap junctions is required for skin pattern formation in zebrafish. Scientific Reports, 2012, 2, 473.	1.6	28
101	A biophysical approach to the study of structure and function of connexin channel nanopores. Audiological Medicine, 2012, 10, 31-39.	0.4	0
102	Oligomerization of polytopic α-helical membrane proteins: causes and consequences. Biological Chemistry, 2012, 393, 1215-1230.	1.2	21
103	Heterotypic connexin50/connexin50 mutant gap junction channels reveal interactions between two hemichannels during transjunctional voltageâ€dependent gating. Journal of Physiology, 2012, 590, 5037-5052.	1.3	4
104	Molecular Dynamics Simulations of the Cx26 Hemichannel: Insights into Voltage-Dependent Loop-Gating. Biophysical Journal, 2012, 102, 1341-1351.	0.2	35
105	Changing clothes easily: <i>connexin41.8</i> regulates skin pattern variation. Pigment Cell and Melanoma Research, 2012, 25, 326-330.	1.5	56
106	Cataract-associated D3Y mutation of human connexin46 (hCx46) increases the dye coupling of gap junction channels and suppresses the voltage sensitivity of hemichannels. Journal of Bioenergetics and Biomembranes, 2012, 44, 607-614.	1.0	13
107	Pannexin 1, an ATP Release Channel, Is Activated by Caspase Cleavage of Its Pore-associated C-terminal Autoinhibitory Region. Journal of Biological Chemistry, 2012, 287, 11303-11311.	1.6	243
108	Critical role of the first transmembrane domain of Cx26 in regulating oligomerization and function. Molecular Biology of the Cell, 2012, 23, 3299-3311.	0.9	33
109	Structural studies of N-terminal mutants of Connexin 32 using 1H NMR spectroscopy. Archives of Biochemistry and Biophysics, 2012, 526, 1-8.	1.4	13
110	Pathological hemichannels associated with human Cx26 mutations causing Keratitis–Ichthyosis–Deafness syndrome. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2014-2019.	1.4	25
111	Connexins in epidermal homeostasis and skin disease. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1952-1961.	1.4	61

#	Article	IF	CITATIONS
112	Voltage-dependent conformational changes in connexin channels. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1807-1822.	1.4	59
113	Structural organization of intercellular channels II. Amino terminal domain of the connexins: sequence, functional roles, and structure. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1823-1830.	1.4	27
114	pH-dependent channel gating in connexin26 hemichannels involves conformational changes in N-terminus. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1148-1157.	1.4	18
115	Comorbidity of GJB2 and WFS1 mutations in one family. Gene, 2012, 501, 193-197.	1.0	7
116	Calcium signaling in the cochlea – Molecular mechanisms and physiopathological implications. Cell Communication and Signaling, 2012, 10, 20.	2.7	36
117	6.3 Gating Dynamics of the Potassium Channel Pore. , 2012, , 31-67.		4
118	Modulation of gap junction channels and hemichannels by growth factors. Molecular BioSystems, 2012, 8, 685.	2.9	32
119	Aspartic Acid Residue D3 Critically Determines Cx50 Gap Junction Channel Transjunctional Voltage-Dependent Gating and Unitary Conductance. Biophysical Journal, 2012, 102, 1022-1031.	0.2	13
120	High-Speed Atomic Force Microscopy: Cooperative Adhesion and Dynamic Equilibrium of Junctional Microdomain Membrane Proteins. Journal of Molecular Biology, 2012, 423, 249-256.	2.0	27
121	Triangulated manifold meshing method preserving molecular surface topology. Journal of Molecular Graphics and Modelling, 2012, 38, 411-418.	1.3	29
122	Gap Junctions. , 2012, 2, 1981-2035.		331
123	Manipulating Connexin Communication Channels: Use of Peptidomimetics and the Translational Outputs. Journal of Membrane Biology, 2012, 245, 437-449.	1.0	83
124	The N-Terminal Half of the Connexin Protein Contains the Core Elements of the Pore and Voltage Gates. Journal of Membrane Biology, 2012, 245, 453-463.	1.0	38
125	Cytoplasmic Amino Acids within the Membrane Interface Region Influence Connexin Oligomerization. Journal of Membrane Biology, 2012, 245, 221-230.	1.0	31
126	LRRC8 proteins share a common ancestor with pannexins, and may form hexameric channels involved in cellâ€cell communication. BioEssays, 2012, 34, 551-560.	1.2	140
127	Hemichannels: permeants and their effect on development, physiology and death. Cell Biochemistry and Function, 2012, 30, 89-100.	1.4	59
128	Differential susceptibility of <scp>C</scp> x26 mutations associated with epidermal dysplasias to peptidoglycan derived from <i>Staphylococcus aureus</i> and <i>Staphylococcus epidermidis</i> . Experimental Dermatology, 2012, 21, 592-598.	1.4	28
129	The contractile system as a negative regulator of the connexin 43 hemichannel. Biology of the Cell, 2012, 104, 367-377.	0.7	33

#	Article	IF	CITATIONS
130	Protein-protein interaction sites are hot spots for disease-associated nonsynonymous SNPs. Human Mutation, 2012, 33, 359-363.	1.1	149
131	Alanine substitution scanning of pannexin1 reveals amino acid residues mediating ATP sensitivity. Purinergic Signalling, 2012, 8, 81-90.	1.1	40
132	The 3.5 Ã¥ngström Xâ^'ray structure of the human connexin26 gap junction channel is unlikely that of a fully open channel. Cell Communication and Signaling, 2013, 11, 15.	2.7	23
133	Electron Crystallography of Soluble and Membrane Proteins. Methods in Molecular Biology, 2013, , .	0.4	8
134	Regulation of connexin―and pannexinâ€based channels by postâ€translational modifications. Biology of the Cell, 2013, 105, 373-398.	0.7	57
135	Modeling Complexes of Transmembrane Proteins: Systematic Analysis of ProteinProtein Docking Tools. Molecular Informatics, 2013, 32, 717-733.	1.4	27
136	Chemical shift assignments of the connexin45 carboxyl terminal domain: monomer and dimer conformations. Biomolecular NMR Assignments, 2013, 7, 293-297.	0.4	10
137	1H, 13C, and 15N backbone resonance assignments of the connexin43 carboxyl terminal domain attached to the 4th transmembrane domain in detergent micelles. Biomolecular NMR Assignments, 2013, 7, 299-303.	0.4	8
138	ATP-dependent intercellular Ca2+ signaling in the developing cochlea: Facts, fantasies and perspectives. Seminars in Cell and Developmental Biology, 2013, 24, 31-39.	2.3	34
139	An engineered dimeric protein pore that spans adjacent lipid bilayers. Nature Communications, 2013, 4, 1725.	5.8	44
141	Molecular Biophysics for the Life Sciences. , 2013, , .		2
142	GJB2-associated hearing loss undetected by hearing screening of newborns. Gene, 2013, 532, 41-45.	1.0	41
143	Identification of four novel connexin 26 mutations in non-syndromic deaf patients: genotype–phenotype analysis in moderate cases. Molecular Biology Reports, 2013, 40, 6945-6955.	1.0	9
144	The mechanics of membrane proteins is a signature of biological function. Soft Matter, 2013, 9, 7866.	1.2	7
145	Connexin targeting peptides as inhibitors of voltage- and intracellular Ca2+-triggered Cx43 hemichannel opening. Neuropharmacology, 2013, 75, 506-516.	2.0	108
146	Antibodies targeting extracellular domain of connexins for studies of hemichannels. Neuropharmacology, 2013, 75, 525-532.	2.0	49
147	Structural and Functional Similarities of Calcium Homeostasis Modulator 1 (CALHM1) Ion Channel with Connexins, Pannexins, and Innexins*. Journal of Biological Chemistry, 2013, 288, 6140-6153.	1.6	101
148	Mechanism of Two Novel Human GJC3 Missense Mutations in Causing Non-Syndromic Hearing Loss. Cell Biochemistry and Biophysics, 2013, 66, 277-286.	0.9	11

#	ARTICLE Regulation of connexin hemichannel activity by membrane potential and the extracellular calcium in	IF	CITATIONS
149	health and disease. Neuropharmacology, 2013, 75, 479-490.	2.0	74
150	Novel GermlineGJA5/Connexin40 Mutations Associated with Lone Atrial Fibrillation Impair Gap Junctional Intercellular Communication. Human Mutation, 2013, 34, n/a-n/a.	1.1	51
151	Future Directions of Electron Crystallography. Methods in Molecular Biology, 2013, 955, 551-568.	0.4	6
152	Connexin channel modulators and their mechanisms of action. Neuropharmacology, 2013, 75, 517-524.	2.0	69
153	A History of Gap Junction Structure: Hexagonal Arrays to Atomic Resolution. Cell Communication and Adhesion, 2013, 20, 11-20.	1.0	10
154	Gap Junctions in Cerebellar Development and Pathology. , 2013, , 189-200.		0
155	Charcot–Marie–Tooth Disease. , 2013, , 201-215.		0
156	Claudin Heterogeneity and Control of Lung Tight Junctions. Annual Review of Physiology, 2013, 75, 551-567.	5.6	116
157	Structural basis for the selective permeability of channels made of communicating junction proteins. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 51-68.	1.4	64
158	Evolutionary analyses of gap junction protein families. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 4-14.	1.4	109
159	The role of connexins in ear and skin physiology — Functional insights from disease-associated mutations. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 167-178.	1.4	106
160	Insights on the mechanisms of Ca2+ regulation of connexin26 hemichannels revealed by human pathogenic mutations (D50N/Y). Journal of General Physiology, 2013, 142, 23-35.	0.9	48
161	The Carboxyl Terminal Residues 220–283 Are Not Required for Voltage Gating of a Chimeric Connexin32 Hemichannel. Biophysical Journal, 2013, 105, 1376-1382.	0.2	5
162	Effects of Phosphorylation on the Structure and Backbone Dynamics of the Intrinsically Disordered Connexin43 C-terminal Domain. Journal of Biological Chemistry, 2013, 288, 24857-24870.	1.6	48
163	Expanded spectrum of Pelizaeus–Merzbacher-like disease: literature revision and description of a novel GJC2 mutation in an unusually severe form. European Journal of Human Genetics, 2013, 21, 34-39.	1.4	30
164	<i>Drowning out communication</i> . Focus on "The human Cx26-D50A and Cx26-A88V mutations causing keratitis-ichthyosis-deafness syndrome display increased hemichannel activity― American Journal of Physiology - Cell Physiology, 2013, 304, C1129-C1130.	2.1	2
165	The distribution and functional properties of Pelizaeus–Merzbacher-like disease-linked Cx47 mutations on Cx47/Cx47 homotypic and Cx47/Cx43 heterotypic gap junctions. Biochemical Journal, 2013, 452, 249-258.	1.7	22
166	Evolving protocells to prototissues: rational design of a missing link. Biochemical Society	1.6	18

#	Article	IF	CITATIONS
167	Functional roles of the amino terminal domain in determining biophysical properties of Cx50 gap junction channels. Frontiers in Physiology, 2013, 4, 373.	1.3	13
168	Properties of two cataract-associated mutations located in the NH ₂ terminus of connexin 46. American Journal of Physiology - Cell Physiology, 2013, 304, C823-C832.	2.1	24
169	CRACking the structure of Orai. Channels, 2013, 7, 71-73.	1.5	0
170	Gene gymnastics. Bioengineered, 2013, 4, 279-287.	1.4	37
171	Differential pathways of claudin oligomerization and integration into tight junctions. Tissue Barriers, 2013, 1, e24518.	1.6	54
172	Oligomeric Structure and Functional Characterization of Caenorhabditis elegans Innexin-6 Gap Junction Protein. Journal of Biological Chemistry, 2013, 288, 10513-10521.	1.6	30
173	A gap junction docking mechanism revealed by functional rescue of a human disease-linked connexin mutant. Journal of Cell Science, 2013, 126, 3113-20.	1.2	34
174	Voltage-dependent gating of the Cx32*43E1 hemichannel: Conformational changes at the channel entrances. Journal of General Physiology, 2013, 141, 243-259.	0.9	24
175	Proteins and Mechanisms Regulating Gap-Junction Assembly, Internalization, and Degradation. Physiology, 2013, 28, 93-116.	1.6	114
176	Functional Requirement for a Highly Conserved Charged Residue at Position 75 in the Gap Junction Protein Connexin 32. Journal of Biological Chemistry, 2013, 288, 3609-3619.	1.6	24
177	The D50N mutation and syndromic deafness: Altered Cx26 hemichannel properties caused by effects on the pore and intersubunit interactions. Journal of General Physiology, 2013, 142, 3-22.	0.9	64
178	Connexins in Lung Function and Inflammation. , 2013, , 165-184.		0
179	Differential effects of paclitaxel and docetaxel on gap junctions affects their cytotoxicities in transfected HeLa cells. Molecular Medicine Reports, 2013, 8, 638-644.	1.1	8
181	Analysis of Trafficking, Stability and Function of Human Connexin 26 Gap Junction Channels with Deafness-Causing Mutations in the Fourth Transmembrane Helix. PLoS ONE, 2013, 8, e70916.	1.1	29
182	Interfering amino terminal peptides and functional implications for heteromeric gap junction formation. Frontiers in Pharmacology, 2013, 4, 67.	1.6	14
184	Neurological manifestations of oculodentodigital dysplasia: a Cx43 channelopathy of the central nervous system?. Frontiers in Pharmacology, 2013, 4, 120.	1.6	57
186	Biophysical Properties of Gap Junctions. , 2014, , 151-160.		0
187	A Novel Homozygous Mutation in the EC1/EC2 Interaction Domain of the Gap Junction Complex Connexon 26 Leads to Profound Hearing Impairment. BioMed Research International, 2014, 2014, 1-7.	0.9	7

#	Article	IF	CITATIONS
188	Connexin and Pannexin Based Channels in the Nervous System. , 2014, , 257-283.		2
189	Molecular dynamics simulations highlight structural and functional alterations in deafnessââ,¬â€œrelated M34T mutation of connexin 26. Frontiers in Physiology, 2014, 5, 85.	1.3	32
190	Aberrant Cx26 hemichannels and keratitis-ichthyosis-deafness syndrome: insights into syndromic hearing loss. Frontiers in Cellular Neuroscience, 2014, 8, 354.	1.8	46
191	Bridging the divide. Fly, 2014, 8, 13-18.	0.9	9
192	Divalent regulation and intersubunit interactions of human Connexin26 (Cx26) hemichannels. Channels, 2014, 8, 1-4.	1.5	23
193	Understanding of the molecular evolution of deafness-associated pathogenic mutations of connexin 26. Genetica, 2014, 142, 555-562.	0.5	1
194	Molecular determinants of magnesium-dependent synaptic plasticity at electrical synapses formed by connexin36. Nature Communications, 2014, 5, 4667.	5.8	45
195	Congenital Heart Diseases and Biotechnology: Connecting by Connexin. Advanced Materials Research, 2014, 995, 85-112.	0.3	0
196	Functional analysis and regulation of purified connexin hemichannels. Frontiers in Physiology, 2014, 5, 71.	1.3	29
197	Extracellular domains play different roles in gap junction formation and docking compatibility. Biochemical Journal, 2014, 458, 1-10.	1.7	52
198	Revertant Mutation Releases Confined Lethal Mutation, Opening Pandora's Box: A Novel Genetic Pathogenesis. PLoS Genetics, 2014, 10, e1004276.	1.5	22
199	Motifs in the permeation pathway of connexin channels mediate voltage and Ca2+ sensing. Frontiers in Physiology, 2014, 5, 113.	1.3	27
200	Gap junction modulation and its implications for heart function. Frontiers in Physiology, 2014, 5, 82.	1.3	44
201	The membrane protein Pannexin1 forms two open-channel conformations depending on the mode of activation. Science Signaling, 2014, 7, ra69.	1.6	108
202	Role of amino terminus in voltage gating and junctional rectification of Shaking B innexins. Journal of Neurophysiology, 2014, 111, 1383-1395.	0.9	13
203	A software platform for continuum modeling of ion channels based on unstructured mesh. Computational Science & Discovery, 2014, 7, 014002.	1.5	4
204	Temperature-sensitive gating of hCx26: high-resolution Raman spectroscopy sheds light on conformational changes. Biomedical Optics Express, 2014, 5, 2054.	1.5	21
205	Connexin 46 (Cx46) Gap Junctions Provide a Pathway for the Delivery of Glutathione to the Lens Nucleus. Journal of Biological Chemistry, 2014, 289, 32694-32702.	1.6	51

#	Article	IF	CITATIONS
206	Atomic Force Microscopy Shows Connexin26 Hemichannel Clustering in Purified Membrane Fragments. Biochemistry, 2014, 53, 7407-7414.	1.2	3
207	Mutations in Cx30 that are linked to skin disease and non-syndromic hearing loss exhibit several distinct cellular pathologies. Journal of Cell Science, 2014, 127, 1751-1764.	1.2	43
208	Charge at the 46th residue of connexin 50 is crucial for the gapâ€junctional unitary conductance and transjunctional voltageâ€dependent gating. Journal of Physiology, 2014, 592, 5187-5202.	1.3	22
209	Structure-Function Correlation Analysis of Connexin50 Missense Mutations Causing Congenital Cataract: Electrostatic Potential Alteration Could Determine Intracellular Trafficking Fate of Mutants. BioMed Research International, 2014, 2014, 1-10.	0.9	11
210	Reliability of Nine Programs of Topological Predictions and Their Application to Integral Membrane Channel and Carrier Proteins. Journal of Molecular Microbiology and Biotechnology, 2014, 24, 161-190.	1.0	19
211	Structural Determinants and Proliferative Consequences of Connexin 37 Hemichannel Function in Insulinoma Cells. Journal of Biological Chemistry, 2014, 289, 30379-30386.	1.6	14
212	Atrial fibrillationâ€linked <i>GJA5</i> /connexin40 mutants impaired gap junctions via different mechanisms. FEBS Letters, 2014, 588, 1238-1243.	1.3	44
213	Hearing loss associated with an unusual mutation combination in the gap junction beta 2 (GJB2) gene in a Chinese family. International Journal of Pediatric Otorhinolaryngology, 2014, 78, 599-603.	0.4	4
214	Mix and match: Investigating heteromeric and heterotypic gap junction channels in model systems and native tissues. FEBS Letters, 2014, 588, 1193-1204.	1.3	114
215	SWELL1, a Plasma Membrane Protein, Is an Essential Component of Volume-Regulated Anion Channel. Cell, 2014, 157, 447-458.	13.5	467
216	Gibberellin Acts Positively Then Negatively to Control Onset of Flower Formation in <i>Arabidopsis</i> . Science, 2014, 344, 638-641.	6.0	239
217	The connexin 30.3 of zebrafish homologue of human connexin 26 may play similar role in the inner ear. Hearing Research, 2014, 313, 55-66.	0.9	23
218	Identification of LRRC8 Heteromers as an Essential Component of the Volume-Regulated Anion Channel VRAC. Science, 2014, 344, 634-638.	6.0	507
219	A large-scale screen for coding variants predisposing to psoriasis. Nature Genetics, 2014, 46, 45-50.	9.4	183
220	Gap junction regulation by calmodulin. FEBS Letters, 2014, 588, 1430-1438.	1.3	48
221	Functional effects of Cx50 mutations associated with congenital cataracts. American Journal of Physiology - Cell Physiology, 2014, 306, C212-C220.	2.1	29
222	Altered Inhibition of Cx26 Hemichannels by pH and Zn2+ in the A40V Mutation Associated with Keratitis-Ichthyosis-Deafness Syndrome. Journal of Biological Chemistry, 2014, 289, 21519-21532.	1.6	38
223	Dynamin 2 interacts with connexin 26 to regulate its degradation and function in gap junction formation. International Journal of Biochemistry and Cell Biology, 2014, 55, 288-297.	1.2	8

#	Article	IF	CITATIONS
224	Counterion-Assisted Cation Transport in a Biological Calcium Channel. Journal of Physical Chemistry B, 2014, 118, 9668-9676.	1.2	15
225	R75Q de novo dominant mutation of GJB2 in a Chinese family with hearing loss and palmoplantar keratoderma. International Journal of Pediatric Otorhinolaryngology, 2014, 78, 1461-1466.	0.4	8
226	Characterization of a Novel Water Pocket Inside the Human Cx26 Hemichannel Structure. Biophysical Journal, 2014, 107, 599-612.	0.2	34
227	Protein Kinase CÎ ² -mediated Phosphorylation of Connexin43 Gap Junction Channels Causes Movement within Gap Junctions followed by Vesicle Internalization and Protein Degradation. Journal of Biological Chemistry, 2014, 289, 8781-8798.	1.6	40
228	The recombinant expression systems for structure determination of eukaryotic membrane proteins. Protein and Cell, 2014, 5, 658-672.	4.8	87
229	Structure and closure of connexin gap junction channels. FEBS Letters, 2014, 588, 1230-1237.	1.3	82
230	Filming Biomolecular Processes by High-Speed Atomic Force Microscopy. Chemical Reviews, 2014, 114, 3120-3188.	23.0	320
231	Activation, Permeability, and Inhibition of Astrocytic and Neuronal Large Pore (Hemi)channels. Journal of Biological Chemistry, 2014, 289, 26058-26073.	1.6	45
232	Role of gamma carboxylated Glu47 in connexin 26 hemichannel regulation by extracellular Ca2+: Insight from a local quantum chemistry study. Biochemical and Biophysical Research Communications, 2014, 445, 10-15.	1.0	17
233	Syndromic and nonâ€syndromic diseaseâ€linked Cx43 mutations. FEBS Letters, 2014, 588, 1339-1348.	1.3	119
234	Hunting for connexin hemichannels. FEBS Letters, 2014, 588, 1205-1211.	1.3	153
235	Connexins: Sensors of epidermal integrity that are therapeutic targets. FEBS Letters, 2014, 588, 1304-1314.	1.3	56
236	Asymmetric perturbations of signalling oligomers. Progress in Biophysics and Molecular Biology, 2014, 114, 153-169.	1.4	13
237	Characterization of the Connexin45 Carboxyl-Terminal Domain Structure and Interactions with Molecular Partners. Biophysical Journal, 2014, 106, 2184-2195.	0.2	15
238	A novel compound heterozygous mutation in the GJB2 gene causing non-syndromic hearing loss in a family. International Journal of Molecular Medicine, 2014, 33, 310-316.	1.8	6
240	Development of the field of structural physiology. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2015, 91, 447-468.	1.6	4
241	CO2 carbamylation of proteins as a mechanism in physiology. Biochemical Society Transactions, 2015, 43, 460-464.	1.6	8
242	Architecture of the Synaptophysin/Synaptobrevin Complex: Structural Evidence for an Entropic Clustering Function at the Synapse. Scientific Reports, 2015, 5, 13659.	1.6	52

#	Article	IF	CITATIONS
243	Rational design of new NO and redox sensitivity into connexin26 hemichannels. Open Biology, 2015, 5, 140208.	1.5	16
244	Carbon monoxide: A new player in the redox regulation of connexin hemichannels. IUBMB Life, 2015, 67, 428-437.	1.5	14
245	Voltage Regulation of Connexin Channel Conductance. Yonsei Medical Journal, 2015, 56, 1.	0.9	27
246	Pannexin2 oligomers localize in the membranes of endosomal vesicles in mammalian cells while Pannexin1 channels traffic to the plasma membrane. Frontiers in Cellular Neuroscience, 2014, 8, 468.	1.8	33
247	Diseases associated with leaky hemichannels. Frontiers in Cellular Neuroscience, 2015, 9, 267.	1.8	80
248	The First Extracellular Domain Plays an Important Role in Unitary Channel Conductance of Cx50 Gap Junction Channels. PLoS ONE, 2015, 10, e0143876.	1.1	11
249	Cell communication across gap junctions: a historical perspective and current developments. Biochemical Society Transactions, 2015, 43, 450-459.	1.6	55
251	A Novel Method Using Quantum Dots for Testing the Barrier Function of Cultured Epithelial Cell Sheets. , 2015, 56, 2215.		9
252	Bisphenol A and 4- <i>tert</i> -Octylphenol Inhibit Cx46 Hemichannel Currents. Korean Journal of Physiology and Pharmacology, 2015, 19, 73.	0.6	5
253	Mechano-regulation of gap junction communications between tendon cells is dependent on the magnitude of tensile strain. Biochemical and Biophysical Research Communications, 2015, 465, 281-286.	1.0	19
254	Model for the Architecture of Claudin-Based Paracellular Ion Channels through Tight Junctions. Journal of Molecular Biology, 2015, 427, 291-297.	2.0	158
255	The p.Cys169Tyr variant of connexin 26 is not a polymorphism. Human Molecular Genetics, 2015, 24, 2641-2648.	1.4	14
256	Keratitis-Ichthyosis-Deafness Syndrome-Associated Cx26 Mutants Produce Nonfunctional Gap Junctions but Hyperactive Hemichannels When Co-Expressed With Wild Type Cx43. Journal of Investigative Dermatology, 2015, 135, 1338-1347.	0.3	70
257	The Connexin46 Mutant, Cx46T19M, Causes Loss of Gap Junction Function and Alters Hemi-channel Gating. Journal of Membrane Biology, 2015, 248, 145-155.	1.0	13
258	Connexins and skin disease: insights into the role of beta connexins in skin homeostasis. Cell and Tissue Research, 2015, 360, 645-658.	1.5	25
259	Functional hemichannels formed by human connexin 26 expressed in bacteria. Bioscience Reports, 2015, 35, .	1.1	11
260	Tryptophan Scanning Reveals Dense Packing of Connexin Transmembrane Domains in Gap Junction Channels Composed of Connexin32. Journal of Biological Chemistry, 2015, 290, 17074-17084.	1.6	3
261	Association between mutations in the gap junction \hat{I}^24 gene and nonsyndromic hearing loss: Genotype-phenotype correlation patterns. Molecular Medicine Reports, 2015, 11, 619-624.	1.1	3

		KEPORT	
#	Article	IF	CITATIONS
262	Structural Symmetry in Membrane Proteins. Annual Review of Biophysics, 2015, 44, 311-337.	4.5	127
263	Nanotube-Enabled Vesicle–Vesicle Communication: A Computational Model. Journal of Physical Chemistry Letters, 2015, 6, 2530-2537.	2.1	19
264	Experiments in electron microscopy: from metals to nerves. Physica Scripta, 2015, 90, 048002.	1.2	1
265	Cap junctional regulation of pressure, fluid force, and electrical fields in the epigenetics of cardiac morphogenesis and remodeling. Life Sciences, 2015, 129, 27-34.	2.0	14
266	Mechanisms linking connexin mutations to human diseases. Cell and Tissue Research, 2015, 360, 701-721.	1.5	73
267	A novel Cx50 (GJA8) p.H277Y mutation associated with autosomal dominant congenital cataract identified with targeted next-generation sequencing. Graefe's Archive for Clinical and Experimental Ophthalmology, 2015, 253, 915-924.	1.0	15
268	Major Intrinsic Protein Superfamily. Methods in Enzymology, 2015, 557, 485-520.	0.4	25
269	The Double Life of Connexin Channels: Single Is a Treat. Journal of Investigative Dermatology, 2015, 135, 940-943.	0.3	2
270	Connexin Type and Fluorescent Protein Fusion Tag Determine Structural Stability of Gap Junction Plaques. Journal of Biological Chemistry, 2015, 290, 23497-23514.	1.6	32
271	Gap Junction Channels: The Electrical Conduit of the Intercellular World. Springer Series in Biophysics, 2015, , 313-341.	0.4	0
272	Electrophysiology of Unconventional Channels and Pores. Springer Series in Biophysics, 2015, , .	0.4	9
273	In situ structural analysis of Golgi intracisternal protein arrays. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11264-11269.	3.3	94
274	Non-syndromic hearing loss caused by the dominant cis mutation R75Q with the recessive mutation V37I of the CJB2 (Connexin 26) gene. Experimental and Molecular Medicine, 2015, 47, e169-e169.	3.2	9
275	Derivation of Non-Integration Induced Pluripotent Stem Cells from Fibroblast of Severe Deafness Patients with GJB2 Mutation. Journal of Genetics and Genomics, 2015, 42, 455-458.	1.7	1
276	Connexins. International Review of Cell and Molecular Biology, 2015, 318, 27-62.	1.6	7
277	Connexins, gap junctions and peripheral neuropathy. Neuroscience Letters, 2015, 596, 27-32.	1.0	29
278	Aberrant Connexin26 Hemichannels Underlying Keratitis–Ichthyosis–Deafness Syndrome Are Potently Inhibited by Mefloquine. Journal of Investigative Dermatology, 2015, 135, 1033-1042.	0.3	21
279	Bioinformatic Analysis of GJB2 Gene Missense Mutations. Cell Biochemistry and Biophysics, 2015, 71, 1623-1642.	0.9	16

		CITATION REPORT	
#	Article	IF	CITATIONS
280	Targeted Genes Sequencing Identified a Novel 15 bp Deletion on GJA8 in a Chinese Family with Autosomal Dominant Congenital Cataracts. Chinese Medical Journal, 2016, 129, 860-867.	0.9	8
281	Connexin 50 Regulates Surface Ball-and-Socket Structures and Fiber Cell Organization. , 2016, 57, 3039.		21
282	Erythrokeratoderma Variabilis Caused by p.Gly45Glu in Connexin 31: Importance of the First Extracellular Loop Glycine Residue for Gap Junction Function. Acta Dermato-Venereologica, 2016, 96, 557-559.	0.6	5
283	Connexins and Heritable Human Diseases. , 2016, , 331-343.		2
284	Extracellular Cysteine in Connexins: Role as Redox Sensors. Frontiers in Physiology, 2016, 7, 1.	1.3	247
285	Regulation of Connexins Expression Levels by MicroRNAs, an Update. Frontiers in Physiology, 2016, 7, 558.	1.3	15
286	Functional Analysis of a Novel Connexin30 Mutation in a Large Family with Hearing Loss, Pesplanus, Ichthyosis, Cutaneous Nodules, and Keratoderma. Annals of Human Genetics, 2016, 80, 11-19.	0.3	2
287	Atomic structure of the innexin-6 gap junction channel determined by cryo-EM. Nature Communications, 2016, 7, 13681.	5.8	104
288	Identification and functional analysis of two novel connexin 50 mutations associated with autosome dominant congenital cataracts. Scientific Reports, 2016, 6, 26551.	1.6	18
289	Engineered Cx26 variants established functional heterotypic Cx26/Cx43 and Cx26/Cx40 gap junction channels. Biochemical Journal, 2016, 473, 1391-1403.	1.7	12
290	Compound heterozygous <i>GJB2</i> mutations associated to a consanguineous Han family with autosomal recessive non-syndromic hearing loss. Acta Oto-Laryngologica, 2016, 136, 782-785.	0.3	11
291	Structural studies of N-terminal mutants of Connexin 26 and Connexin 32 using 1H NMR spectroscopy. Archives of Biochemistry and Biophysics, 2016, 608, 8-19.	1.4	11
292	Inactivation and Anion Selectivity of Volume-regulated Anion Channels (VRACs) Depend on C-terminal Residues of the First Extracellular Loop. Journal of Biological Chemistry, 2016, 291, 17040-17048.	1.6	57
293	Mechanism of gating by calcium in connexin hemichannels. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7986-E7995.	3.3	75
294	Molecular mechanisms regulating formation, trafficking and processing of annular gap junctions. BMC Cell Biology, 2016, 17, 22.	3.0	57
295	An electrostatic mechanism for Ca2+-mediated regulation of gap junction channels. Nature Communications, 2016, 7, 8770.	5.8	119
296	Secondary structural analysis of the carboxylâ€ŧerminal domain from different connexin isoforms. Biopolymers, 2016, 105, 143-162.	1.2	10
297	Connexinopathies: a structural and functional glimpse. BMC Cell Biology, 2016, 17, 17.	3.0	42

ARTICLE IF CITATIONS Membrane Transport. , 2016, , 335-378. 298 5 Specific functional pathologies of Cx43 mutations associated with oculodentodigital dysplasia. 299 Molecular Biology of the Cell, 2016, 27, 2172-2185. Connexin 26 (GJB2) mutation in an Argentinean patient with keratitis-ichthyosis-deafness (KID) 300 2.1 13 syndrome: a case report. BMC Medical Genetics, 2016, 17, 37. Exploring the Membrane Potential of Simple Dual-Membrane Systems as Models for Gap-Junction Channels. Biophysical Journal, 2016, 110, 2678-2688. Syndromic deafness mutations at Asn 14 differentially alter the open stability of Cx26 hemichannels. 302 0.9 28 Journal of General Physiology, 2016, 148, 25-42. Inherited bradyarrhythmia: A diverse genetic background. Journal of Arrhythmia, 2016, 32, 352-358. Hexadecameric structure of an invertebrate gap junction channel. Journal of Molecular Biology, 2016, 304 2.0 32 428, 1227-1236. Specificity of the connexin W3/4 locus for functional gap junction formation. Channels, 2016, 10, 1.5 453-465. Charged Residues at the First Transmembrane Region Contribute to the Voltage Dependence of the 306 1.6 13 Slow Gate of Connexins. Journal of Biological Chemistry, 2016, 291, 15740-15752. The role of connexin43–Src interaction in astrocytomas: A molecular puzzle. Neuroscience, 2016, 323, 1.1 183-194. Engineered Cx40 variants increased docking and function of heterotypic Cx40/Cx43 gap junction 308 0.9 14 channels. Journal of Molecular and Cellular Cardiology, 2016, 90, 11-20. Calcium homeostasis modulator (CALHM) ion channels. Pflugers Archiv European Journal of 1.3 Physiology, 2016, 468, 395-403. From Hyperactive Connexin26 Hemichannels to Impairments in Epidermal Calcium Gradient and 310 Permeability Barrier in the Keratitis-Ichthyosis-Deafness Syndrome. Journal of Investigative 0.3 41 Dermatology, 2016, 136, 574-583. The pathological effects of connexin 26 variants related to hearing loss by in silico and in vitro 311 1.8 analysis. Human Genetics, 2016, 135, 287-298. Determinants of Cx43 Channel Gating and Permeation: The Amino Terminus. Biophysical Journal, 2016, 312 0.2 21 110, 127-140. Gap-junctional channel and hemichannel activity of two recently identified connexin 26 mutants associated with deafness. Pflugers Archiv European Journal of Physiology, 2016, 468, 909-918. Structural analysis of key gap junction domainsâ€"Lessons from genome data and disease-linked 314 2.325 mutants. Seminars in Cell and Developmental Biology, 2016, 50, 74-82. Two different centered monoclinic crystals of the E. coli outer-membrane protein OmpF originate 1.4 from the same building block. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 326-332.

#	Article	IF	CITATIONS
316	Computational Studies of Molecular Permeation through Connexin26 Channels. Biophysical Journal, 2016, 110, 584-599.	0.2	17
317	Data of the molecular dynamics simulations of mutations in the human connexin46 docking interface. Data in Brief, 2016, 7, 93-99.	0.5	6
318	The Physiological Characterization of Connexin41.8 and Connexin39.4, Which Are Involved in the Striped Pattern Formation of Zebrafish. Journal of Biological Chemistry, 2016, 291, 1053-1063.	1.6	35
319	The cataract related mutation N188T in human connexin46 (hCx46) revealed a critical role for residue N188 in the docking process of gap junction channels. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 57-66.	1.4	20
320	Deconstruction of the human connexin 26 hemichannel due to an applied electric field; A molecular dynamics simulation study. Journal of Molecular Graphics and Modelling, 2017, 73, 108-114.	1.3	7
321	Evolutionary adaptation of the sensitivity of connexin26 hemichannels to CO ₂ . Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162723.	1.2	20
322	Recruitment of RNA molecules by connexin RNA-binding motifs: Implication in RNA and DNA transport through microvesicles and exosomes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 728-736.	1.9	45
323	Cardiac Cx43, Cx40 and Cx45 co-assembling: involvement of connexins epitopes in formation of hemichannels and Gap junction channels. BMC Cell Biology, 2017, 18, 3.	3.0	36
324	Induction of cell death and gain-of-function properties of connexin26 mutants predict severity of skin disorders and hearing loss. Journal of Biological Chemistry, 2017, 292, 9721-9732.	1.6	15
325	Connexin Hemichannels in Astrocytes: An Assessment of Controversies Regarding Their Functional Characteristics. Neurochemical Research, 2017, 42, 2537-2550.	1.6	30
326	Polar and charged extracellular residues conserved among barrierâ€forming claudins contribute to tight junction strand formation. Annals of the New York Academy of Sciences, 2017, 1397, 143-156.	1.8	27
327	Characterization of the Tetraspan Junctional Complex (4JC) superfamily. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 402-414.	1.4	3
328	The NH ₂ terminus regulates voltage-dependent gating of CALHM ion channels. American Journal of Physiology - Cell Physiology, 2017, 313, C173-C186.	2.1	21
329	Architecture of the paracellular channels formed by claudins of the blood–brain barrier tight junctions. Annals of the New York Academy of Sciences, 2017, 1405, 131-146.	1.8	56
330	Direct visualization of interaction between calmodulin and connexin45. Biochemical Journal, 2017, 474, 4035-4051.	1.7	26
331	Permeant-specific gating of connexin 30 hemichannels. Journal of Biological Chemistry, 2017, 292, 19999-20009.	1.6	19
332	Very-Low-Density Lipoprotein of Metabolic Syndrome Modulates Gap Junctions and Slows Cardiac Conduction. Scientific Reports, 2017, 7, 12050.	1.6	21
333	Connexins in Cardiovascular and Neurovascular Health and Disease: Pharmacological Implications. Pharmacological Reviews, 2017, 69, 396-478.	7.1	191

#	Article	IF	CITATIONS
334	Junctional delay, frequency, and direction-dependent uncoupling of human heterotypic Cx45/Cx43 gap junction channels. Journal of Molecular and Cellular Cardiology, 2017, 111, 17-26.	0.9	23
335	Progressive Atrial Conduction Defects Associated With Bone Malformation Caused by a Connexin-45 Mutation. Journal of the American College of Cardiology, 2017, 70, 358-370.	1.2	27
336	Accessing gap-junction channel structure-function relationships through molecular modeling and simulations. BMC Cell Biology, 2017, 18, 5.	3.0	18
337	Characterizing the mode of action of extracellular Connexin43 channel blocking mimetic peptides in an in vitro ischemia injury model. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 68-78.	1.1	46
338	Exome sequencing identifies a novel mutation in GJA8 associated with inherited cataract in a Chinese family. Graefe's Archive for Clinical and Experimental Ophthalmology, 2017, 255, 141-151.	1.0	7
339	A structural and functional comparison of gap junction channels composed of connexins and innexins. Developmental Neurobiology, 2017, 77, 522-547.	1.5	71
340	Computational simulations of asymmetric fluxes of large molecules through gap junction channel pores. Journal of Theoretical Biology, 2017, 412, 61-73.	0.8	10
341	Structure of the C. elegans Innexin-6 Gap Junction Channel. Microscopy and Microanalysis, 2017, 23, 1104-1105.	0.2	0
342	Postâ€ŧranslational palmitoylation controls the voltage gating and lipid raft association of the CALHM1 channel. Journal of Physiology, 2017, 595, 6121-6145.	1.3	23
343	On Biophysical Properties and Sensitivity to Gap Junction Blockers of Connexin 39 Hemichannels Expressed in HeLa Cells. Frontiers in Physiology, 2017, 8, 38.	1.3	17
344	Modulation of Asymmetric Flux in Heterotypic Gap Junctions by Pore Shape, Particle Size and Charge. Frontiers in Physiology, 2017, 8, 206.	1.3	3
345	Gap Junction in the Teleost Fish Lineage: Duplicated Connexins May Contribute to Skin Pattern Formation and Body Shape Determination. Frontiers in Cell and Developmental Biology, 2017, 5, 13.	1.8	22
346	Design and Characterization of a Human Monoclonal Antibody that Modulates Mutant Connexin 26 Hemichannels Implicated in Deafness and Skin Disorders. Frontiers in Molecular Neuroscience, 2017, 10, 298.	1.4	31
347	DFNB1 Non-syndromic Hearing Impairment: Diversity of Mutations and Associated Phenotypes. Frontiers in Molecular Neuroscience, 2017, 10, 428.	1.4	66
348	Characterization of a variant of gap junction protein α8 identified in a family with hereditary cataract. PLoS ONE, 2017, 12, e0183438.	1.1	6
349	Structure of an innexin gap junction channel and cryo-EM sample preparation. Microscopy (Oxford,) Tj ETQq1 1 ().784314 ı 0.7	rgBT /Overlo
350	Functional analysis of a nonsyndromic hearing loss-associated mutation in the transmembrane II domain of the GJC3 gene. International Journal of Medical Sciences, 2017, 14, 246-256.	1.1	6
351	Three novel <i>GJB2</i> (connexin 26) variants associated with autosomal dominant syndromic and nonsyndromic hearing loss. American Journal of Medical Genetics, Part A, 2018, 176, 945-950.	0.7	9

#	Article	IF	CITATIONS
352	The syndromic deafness mutation G12R impairs fast and slow gating in Cx26 hemichannels. Journal of General Physiology, 2018, 150, 697-711.	0.9	19
353	GJB2 mutations causing autosomal recessive non-syndromic hearing loss (ARNSHL) in two Iranian populations: Report of two novel variants. International Journal of Pediatric Otorhinolaryngology, 2018, 107, 121-126.	0.4	24
354	Deafness-associated mutation opens the gate to understanding. Journal of General Physiology, 2018, 150, 647-647.	0.9	0
355	Gating of Connexin Channels by transjunctional-voltage: Conformations and models of open and closed states. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 22-39.	1.4	30
356	Connexins and Pannexins in cerebral ischemia. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 224-236.	1.4	44
357	Gap junction gene and protein families: Connexins, innexins, and pannexins. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 5-8.	1.4	138
358	Defining the factors that affect solute permeation of gap junction channels. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 96-101.	1.4	18
359	Crucial motifs and residues in the extracellular loops influence the formation and specificity of connexin docking. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 9-21.	1.4	44
360	Cx32 hemichannel opening by cytosolic Ca2+ is inhibited by the R220X mutation that causes Charcot-Marie-Tooth disease. Human Molecular Genetics, 2018, 27, 80-94.	1.4	25
361	Redox-mediated regulation of connexin proteins; focus on nitric oxide. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 91-95.	1.4	24
362	Biophysical Properties of Gap Junctions. , 2018, , 140-150.		0
363	Bridging the gap: Super-resolution microscopy of epithelial cell junctions. Tissue Barriers, 2018, 6, e1404189.	1.6	6
364	Nanoemulsion as pharmaceutical carrier for dermal and transdermal drug delivery: Formulation development, stability issues, basic considerations and applications. Journal of Controlled Release, 2018, 270, 203-225.	4.8	374
365	A case with CMTX1 disease showing transient ischemic-attack-like episodes. Neurologia I Neurochirurgia Polska, 2018, 52, 285-288.	0.6	2
366	Molecular dynamics simulation of the thermosensitivity of the human connexin 26 hemichannel. Chemical Physics, 2018, 500, 7-14.	0.9	7
367	Frontiers in biomolecular mesh generation and molecular visualization systems. Visual Computing for Industry, Biomedicine, and Art, 2018, 1, 7.	2.2	5
368	Therapeutic Targeting of Connexin Channels: New Views and Challenges. Trends in Molecular Medicine, 2018, 24, 1036-1053.	3.5	71
369	Calcium interactions with Cx26 hemmichannel: Spatial association between MD simulations biding sites and variant pathogenicity. Computational Biology and Chemistry, 2018, 77, 331-342.	1.1	9

#	Article	IF	CITATIONS
370	Electrical coupling and its channels. Journal of General Physiology, 2018, 150, 1606-1639.	0.9	18
371	A novel compound heterozygous mutation in the <i>CJB2</i> gene is associated with non-syndromic hearing loss in a Chinese family. BioScience Trends, 2018, 12, 470-475.	1.1	5
372	Structure of native lens connexin 46/50 intercellular channels by cryo-EM. Nature, 2018, 564, 372-377.	13.7	107
373	Automatic Inference of Sequence from Low-Resolution Crystallographic Data. Structure, 2018, 26, 1546-1554.e2.	1.6	0
374	Variants with increased negative electrostatic potential in the Cx50 gap junction pore increased unitary channel conductance and magnesium modulation. Biochemical Journal, 2018, 475, 3315-3330.	1.7	7
375	Concatenation of Human Connexin26 (hCx26) and Human Connexin46 (hCx46) for the Analysis of Heteromeric Gap Junction Hemichannels and Heterotypic Gap Junction Channels. International Journal of Molecular Sciences, 2018, 19, 2742.	1.8	4
376	Therapeutic strategies targeting connexins. Nature Reviews Drug Discovery, 2018, 17, 905-921.	21.5	143
377	Innexins: Expression, Regulation, and Functions. Frontiers in Physiology, 2018, 9, 1414.	1.3	43
378	The weak voltage dependence of pannexin 1 channels can be tuned by N-terminal modifications. Journal of General Physiology, 2018, 150, 1758-1768.	0.9	20
379	Pore Engineering for Enhanced Mass Transport in Encapsulin Nanocompartments. ACS Synthetic Biology, 2018, 7, 2514-2517.	1.9	52
380	Molecular Biology and Physiology of Volume-Regulated Anion Channel (VRAC). Current Topics in Membranes, 2018, 81, 177-203.	0.5	80
381	A Cell Junctional Protein Network Associated with Connexin-26. International Journal of Molecular Sciences, 2018, 19, 2535.	1.8	13
382	The Pannexin1 membrane channel: distinct conformations and functions. FEBS Letters, 2018, 592, 3201-3209.	1.3	62
383	Intracellular and extracellular loops of LRRC8 are essential for volume-regulated anion channel function. Journal of General Physiology, 2018, 150, 1003-1015.	0.9	32
384	Structure of a volume-regulated anion channel of the LRRC8 family. Nature, 2018, 558, 254-259.	13.7	160
385	Whole-genome sequencing reveals a recurrent missense mutation in the Connexin 46 (GJA3) gene causing autosomal-dominant lamellar cataract. Eye, 2018, 32, 1661-1668.	1.1	6
386	LRRC8 N termini influence pore properties and gating of volume-regulated anion channels (VRACs). Journal of Biological Chemistry, 2018, 293, 13440-13451.	1.6	30
387	Modulation of Connexin-36 Gap Junction Channels by Intracellular pH and Magnesium Ions. Frontiers in Physiology, 2018, 9, 362.	1.3	17

#	Article	IF	CITATIONS
388	Alterations at Arg ⁷⁶ of human connexin 46, a residue associated with cataract formation, cause loss of gap junction formation but preserve hemichannel function. American Journal of Physiology - Cell Physiology, 2018, 315, C623-C635.	2.1	5
389	Cues to Opening Mechanisms From in Silico Electric Field Excitation of Cx26 Hemichannel and in Vitro Mutagenesis Studies in HeLa Transfectans. Frontiers in Molecular Neuroscience, 2018, 11, 170.	1.4	26
390	ATP Release Channels. International Journal of Molecular Sciences, 2018, 19, 808.	1.8	151
391	Cryo-EM structures of the human volume-regulated anion channel LRRC8. Nature Structural and Molecular Biology, 2018, 25, 797-804.	3.6	104
392	Directional coupling of oligodendrocyte connexinâ€47 and astrocyte connexinâ€43 gap junctions. Glia, 2018, 66, 2340-2352.	2.5	41
393	Cx26 partial loss causes accelerated presbycusis by redox imbalance and dysregulation of Nfr2 pathway. Redox Biology, 2018, 19, 301-317.	3.9	50
394	Determining the molecular basis of voltage sensitivity in membrane proteins. Journal of General Physiology, 2018, 150, 1444-1458.	0.9	16
395	Molecular basis for potentiation of Cx36 gap junction channel conductance by <i>n</i> -alcohols and general anesthetics. Bioscience Reports, 2018, 38, .	1.1	6
396	Gap Junction Intercellular Communication in the Carcinogenesis Hallmarks: Is This a Phenomenon or Epiphenomenon?. Cells, 2019, 8, 896.	1.8	26
397	G130V de novo mutation in an Iranian pedigree with nonsyndromic hearing loss without palmoplantar keratoderma. International Journal of Pediatric Otorhinolaryngology, 2019, 126, 109607.	0.4	1
398	Alterations in connexin 26 protein structure from lethal keratitis-ichthyosis-deafness syndrome mutations A88V and G45E. Journal of Dermatological Science, 2019, 95, 119-122.	1.0	3
399	A Human-Derived Monoclonal Antibody Targeting Extracellular Connexin Domain Selectively Modulates Hemichannel Function. Frontiers in Physiology, 2019, 10, 392.	1.3	14
400	Cx26 keratitis ichthyosis deafness syndrome mutations trigger alternative splicing of Cx26 to prevent expression and cause toxicity <i>in vitro</i> . Royal Society Open Science, 2019, 6, 191128.	1.1	13
401	Visualization of Protein-Lipid Interactions in Connexin-46/50 Intercellular Communication Channels at 2.1 Ã Resolution. Microscopy and Microanalysis, 2019, 25, 1216-1217.	0.2	0
402	Structural determinants underlying permeant discrimination of the Cx43 hemichannel. Journal of Biological Chemistry, 2019, 294, 16789-16803.	1.6	15
403	The Effects of Calcium on Lipid–Protein Interactions and Ion Flux in the Cx26 Connexon Embedded into a POPC Bilayer. Journal of Membrane Biology, 2019, 252, 451-464.	1.0	3
404	Heterotypic docking compatibility of human connexin37 with other vascular connexins. Journal of Molecular and Cellular Cardiology, 2019, 127, 194-203.	0.9	8
405	More than keratitis, ichthyosis, and deafness: Multisystem effects of lethal GJB2 mutations. Journal of the American Academy of Dermatology, 2019, 80, 617-625.	0.6	27

#	Article	IF	CITATIONS
406	Unique Mutational Spectrum of the GJB2 Gene and Its Pathogenic Contribution to Deafness in Tuvinians (Southern Siberia, Russia): A High Prevalence of Rare Variant c.516G>C (p.Trp172Cys). Genes, 2019, 10, 429.	1.0	13
407	Consensus interpretation of the p.Met34Thr and p.Val37Ile variants in GJB2 by the ClinGen Hearing Loss Expert Panel. Genetics in Medicine, 2019, 21, 2442-2452.	1.1	56
408	Protein Structure and Modeling. , 2019, , .		3
409	Genetic Study on Small Insertions and Deletions in Psoriasis Reveals a Role in Complex Human Diseases. Journal of Investigative Dermatology, 2019, 139, 2302-2312.e14.	0.3	22
410	Analysis of the dominant mutation N188T of human connexin46 (<scp>hC</scp> x46) using concatenation and molecular dynamics simulation. FEBS Open Bio, 2019, 9, 840-850.	1.0	3
411	X-linked inheritances recessive of congenital nystagmus and autosomal dominant inheritances of congenital cataracts coexist in a Chinese family: a case report and literature review. BMC Medical Genetics, 2019, 20, 41.	2.1	5
412	Comparison of Predictive <i>In Silico</i> Tools on Missense Variants in <i>GJB2</i> , <i>GJB6</i> , and <i>GJB3</i> Genes Associated with Autosomal Recessive Deafness 1A (DFNB1A). Scientific World Journal, The, 2019, 2019, 1-9.	0.8	26
413	Cx46 hemichannel modulation by nitric oxide: Role of the fourth transmembrane helix cysteine and its possible involvement in cataract formation. Nitric Oxide - Biology and Chemistry, 2019, 86, 54-62.	1.2	10
414	GJB2 c.235delC variant associated with autosomal recessive nonsyndromic hearing loss and auditory neuropathy spectrum disorder. Genetics and Molecular Biology, 2019, 42, 48-51.	0.6	9
415	Chloride Channels in Astrocytes: Structure, Roles in Brain Homeostasis and Implications in Disease. International Journal of Molecular Sciences, 2019, 20, 1034.	1.8	28
416	Multiscale Simulations of Biological Membranes: The Challenge To Understand Biological Phenomena in a Living Substance. Chemical Reviews, 2019, 119, 5607-5774.	23.0	209
417	Biophysics and Structure-Function Relationships of LRRC8-Formed Volume-Regulated Anion Channels. Biophysical Journal, 2019, 116, 1185-1193.	0.2	45
418	Potential of cryo-EM for high-resolution structural analysis of gap junction channels. Current Opinion in Structural Biology, 2019, 54, 78-85.	2.6	7
419	A network of chaperones prevents and detects failures in membrane protein lipid bilayer integration. Nature Communications, 2019, 10, 672.	5.8	33
420	The structures and gating mechanism of human calcium homeostasis modulatorÂ2. Nature, 2019, 576, 163-167.	13.7	64
421	Inner Ear Connexin Channels: Roles in Development and Maintenance of Cochlear Function. Cold Spring Harbor Perspectives in Medicine, 2019, 9, a033233.	2.9	45
422	The impact of radicals in cold atmospheric plasma on the structural modification of gap junction: a reactive molecular dynamics study. International Journal of Smart and Nano Materials, 2019, 10, 144-155.	2.0	21
423	A novel autosomal recessive <i>GJB2</i> -associated disorder: Ichthyosis follicularis, bilateral severe sensorineural hearing loss, and punctate palmoplantar keratoderma. Human Mutation, 2019, 40, 217-229.	1.1	16

#	Article	IF	CITATIONS
424	The connexin26 human mutation N14K disrupts cytosolic intersubunit interactions and promotes channel opening. Journal of General Physiology, 2019, 151, 328-341.	0.9	16
425	Connexin hemichannels and cochlear function. Neuroscience Letters, 2019, 695, 40-45.	1.0	19
426	A rare missense mutation in <i>GJB3</i> (Cx31G45E) is associated with a unique cellular phenotype resulting in necrotic cell death. Experimental Dermatology, 2019, 28, 1106-1113.	1.4	9
427	<i>CJB2</i> â€related hearing loss in central Iran: Review of the spectrum and frequency of gene mutations. Annals of Human Genetics, 2020, 84, 107-113.	0.3	14
428	Principles and Applications of Biological Membrane Organization. Annual Review of Biophysics, 2020, 49, 19-39.	4.5	24
429	Modelling of Ca ²⁺ -promoted structural effects in wild type and post-translationally modified Connexin26. Molecular Simulation, 2020, 46, 235-245.	0.9	0
430	Lens Connexin Channels Show Differential Permeability to Signaling Molecules. International Journal of Molecular Sciences, 2020, 21, 6943.	1.8	12
431	Gap19, a Cx43 Hemichannel Inhibitor, Acts as a Gating Modifier That Decreases Main State Opening While Increasing Substate Gating. International Journal of Molecular Sciences, 2020, 21, 7340.	1.8	8
432	Role of ROS/RNS in Preeclampsia: Are Connexins the Missing Piece?. International Journal of Molecular Sciences, 2020, 21, 4698.	1.8	10
433	Mitochondrial F-ATP synthase as the permeability transition pore. Pharmacological Research, 2020, 160, 105081.	3.1	29
434	Cryo-EM structure of the calcium homeostasis modulator 1 channel. Science Advances, 2020, 6, eaba8161.	4.7	17
435	Cryo-EM structures of calcium homeostasis modulator channels in diverse oligomeric assemblies. Science Advances, 2020, 6, eaba8105.	4.7	32
436	NLR-1/CASPR Anchors F-Actin to Promote Gap Junction Formation. Developmental Cell, 2020, 55, 574-587.e3.	3.1	10
437	LRRC8A:C/E Heteromeric Channels Are Ubiquitous Transporters of cGAMP. Molecular Cell, 2020, 80, 578-591.e5.	4.5	96
438	Hearing Phenotypes of Patients with Hearing Loss Homozygous for the <i>GJB2</i> c.235delc Mutation. Neural Plasticity, 2020, 2020, 1-11.	1.0	6
439	Peptide Binding Sites of Connexin Proteins. Chemistry, 2020, 2, 662-673.	0.9	7
440	Calmodulin Binding to Connexin 35: Specializations to Function as an Electrical Synapse. International Journal of Molecular Sciences, 2020, 21, 6346.	1.8	5
441	Connexin-46/50 in a dynamic lipid environment resolved by CryoEM at 1.9 à Nature Communications, 2020, 11, 4331.	5.8	66

	CITATION	Report	
#	Article	IF	CITATIONS
442	Cryo-EM structure of human Cx31.3/GJC3 connexin hemichannel. Science Advances, 2020, 6, eaba4996.	4.7	46
443	Cx43 and the Actin Cytoskeleton: Novel Roles and Implications for Cell-Cell Junction-Based Barrier Function Regulation. Biomolecules, 2020, 10, 1656.	1.8	18
444	A Steric "Ball-and-Chain―Mechanism for pH-Mediated Regulation of Gap Junction Channels. Cell Reports, 2020, 31, 107482.	2.9	35
445	Cryo-EM structure of the volume-regulated anion channel LRRC8D isoform identifies features important for substrate permeation. Communications Biology, 2020, 3, 240.	2.0	35
446	Whole Exome Sequencing Reveals Novel and Recurrent Disease-Causing Variants in Lens Specific Gap Junctional Protein Encoding Genes Causing Congenital Cataract. Genes, 2020, 11, 512.	1.0	4
447	Structures of human pannexin 1 reveal ion pathways and mechanism of gating. Nature, 2020, 584, 646-651.	13.7	121
449	Connexin43 and connexin50 channels exhibit different permeability to the second messenger inositol triphosphate. Scientific Reports, 2020, 10, 8744.	1.6	8
450	The Functional Role of CONNEXIN 26 Mutation in Nonsyndromic Hearing Loss, Demonstrated by Zebrafish Connexin 30.3 Homologue Model. Cells, 2020, 9, 1291.	1.8	5
451	Peptide-based targeting of connexins and pannexins for therapeutic purposes. Expert Opinion on Drug Discovery, 2020, 15, 1213-1222.	2.5	14
452	Cryoâ€electron microscopy structure of <scp>CLHM1</scp> ion channel from <scp><i>Caenorhabditis elegans</i></scp> . Protein Science, 2020, 29, 1803-1815.	3.1	11
453	Cryo-EM structures of the ATP release channel pannexin 1. Nature Structural and Molecular Biology, 2020, 27, 373-381.	3.6	85
454	The amino terminal domain plays an important role in transjunctional voltage-dependent gating kinetics of Cx45 gap junctions. Journal of Molecular and Cellular Cardiology, 2020, 143, 71-84.	0.9	6
455	Molecular basis of junctional current rectification at an electrical synapse. Science Advances, 2020, 6, eabb3076.	4.7	12
457	Cryo-EM structures of undocked innexin-6 hemichannels in phospholipids. Science Advances, 2020, 6, eaax3157.	4.7	37
458	Structure and assembly of calcium homeostasis modulator proteins. Nature Structural and Molecular Biology, 2020, 27, 150-159.	3.6	55
460	Calmodulin-Mediated Regulation of Gap Junction Channels. International Journal of Molecular Sciences, 2020, 21, 485.	1.8	25
461	GJB2 Mutations Linked to Hearing Loss Exhibit Differential Trafficking and Functional Defects as Revealed in Cochlear-Relevant Cells. Frontiers in Cell and Developmental Biology, 2020, 8, 215.	1.8	14
462	Establishment and functional characterization of a murine primary Sertoli cell line deficient of connexin43. Cell and Tissue Research, 2020, 381, 309-326.	1.5	6

ARTICLE IF CITATIONS # Structural insights into gap junction channels boosted by cryo-EM. Current Opinion in Structural 463 2.6 4 Biology, 2020, 63, 42-48. Opposing modulation of Cx26 gap junctions and hemichannels by CO₂. Journal of Physiology, 2021, 599, 103-118. 464 1.3 Regional heterogeneity in rat Peyer's patches through whole transcriptome analysis. Experimental 465 2 1.1 Biology and Medicine, 2021, 246, 513-522. How does oxygen diffuse from capillaries to tissue mitochondria? Barriers and pathways. Journal of 466 Physiology, 2021, 599, 1769-1782. Cell signaling and apoptosis in animals., 2021, , 199-218. 467 2 Neural Networks in Health and Disease., 2021, , 178-186. Functional Evaluation of a Rare Variant c.516G>C (p.Trp172Cys) in the GJB2 (Connexin 26) Gene 469 1.8 7 Associated with Nonsyndromic Hearing Loss. Biomolecules, 2021, 11, 61. A method for assessing ionic and molecular permeation in connexin hemichannels. Methods in 0.4 Enzymology, 2021, 654, 271-293. A Survey of Molecular Communication in Cell Biology: Establishing a New Hierarchy for 471 24.8 42 Interdisciplinary Applications. IEEE Communications Surveys and Tutorials, 2021, 23, 1494-1545. CO ₂ sensing by connexin26 and its role in the control of breathing. Interface Focus, 2021, 1.5 11, 20200029. The effect of nutmeg essential oil constituents on Novikoff hepatoma cell viability and 474 4 2.5 communication through Cx43 gap junctions. Biomedicine and Pharmacotherapy, 2021, 135, 111229. The Complex and Critical Role of Glycine 12 (G12) in Beta-Connexins of Human Skin. International 1.8 Journal of Molecular Sciences, 2021, 22, 2615. Identification and classification of innexin gene transcripts in the central nervous system of the 476 1.1 2 terrestrial slug Limax valentianus. PLoS ONE, 2021, 16, e0244902. A deep convolutional neural network for segmentation of whole-slide pathology images identifies novel tumour cell-perivascular niche interactions that are associated with poor survival in glioblastoma. British Journal of Cancer, 2021, 125, 337-350. Harnessing the therapeutic potential of antibodies targeting connexin hemichannels. Biochimica Et 478 10 1.8 Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166047. Structure and Functions of Gap Junctions and Their Constituent Connexins in the Mammalian CNS. 479 Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2021, 15, 107-119. Structure versus function: Are new conformations of pannexin 1 yet to be resolved?. Journal of 480 0.9 22 General Physiology, 2021, 153, . Biological insights from the direct measurement of purine release. Biochemical Pharmacology, 2021, 187, 114416.

#	Article	IF	CITATIONS
482	Simulations on Simple Models of Connexin Hemichannels Indicate That Ca2+ Blocking Is Not a Pure Electrostatic Effect. Membranes, 2021, 11, 372.	1.4	0
483	Structure of the full-length human Pannexin1 channel and insights into its role in pyroptosis. Cell Discovery, 2021, 7, 30.	3.1	14
484	Connexin 46 and connexin 50 gap junction channel properties are shaped by structural and dynamic features of their Nâ€ŧerminal domains. Journal of Physiology, 2021, 599, 3313-3335.	1.3	15
485	Networks of linked radial muscles could influence dynamic skin patterning of squid chromatophores. Journal of Morphology, 2021, 282, 1245-1258.	0.6	0
488	Connexin hemichannel inhibitors with a focus on aminoglycosides. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166115.	1.8	9
489	And they're out of the gate…. Journal of Physiology, 2021, 599, 3259-3260.	1.3	0
490	Differential Domain Distribution of gnomAD- and Disease-Linked Connexin Missense Variants. International Journal of Molecular Sciences, 2021, 22, 7832.	1.8	7
492	On the molecular nature of large-pore channels. Journal of Molecular Biology, 2021, 433, 166994.	2.0	44
493	Cryo-EM structure of an open conformation of a gap junction hemichannel in lipid bilayer nanodiscs. Structure, 2021, 29, 1040-1047.e3.	1.6	13
494	Endothelial connexin-integrin crosstalk in vascular inflammation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166168.	1.8	6
495	Contribution of non-selective membrane channels and receptors in epilepsy. , 2022, 231, 107980.		17
497	Anti-parasitic drugs modulate the non-selective channels formed by connexins or pannexins. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166188.	1.8	0
498	Over-activated hemichannels: A possible therapeutic target for human diseases. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166232.	1.8	5
499	Determining stoichiometry of ion channel complexes using single subunit counting. Methods in Enzymology, 2021, 653, 377-404.	0.4	2
500	Gap Junctions as Electrical Synapses. , 2009, , 423-439.		3
501	Single-Molecule Methods. , 2013, , 257-288.		2
502	GFP-Based Expression Screening of Membrane Proteins in Insect Cells Using the Baculovirus System. Methods in Molecular Biology, 2015, 1261, 197-209.	0.4	13
503	A novel voltage-clamp/dye uptake assay reveals saturable transport of molecules through CALHM1 and connexin channels. Journal of General Physiology, 2020, 152, .	0.9	8

		CITATION REPO	ORT	
#	Article	I	F	CITATIONS
510	Gap junction structure: unraveled, but not fully revealed. F1000Research, 2017, 6, 568.	(0.8	25
511	A Novel GJA8 Mutation (p.V44A) Causing Autosomal Dominant Congenital Cataract. PLoS C e115406.	DNE, 2014, 9,	l.1	23
512	Simvastatin Sodium Salt and Fluvastatin Interact with Human Gap Junction Gamma-3 Protei 2016, 11, e0148266.	n. PLoS ONE,	1.1	3
513	Connexin in Lens Physiology and Cataract Formation. Journal of Clinical & Experimental Ophthalmology, 2013, 04, .		0.1	3
514	The Role of Gap Junction Proteins in Infertility. International Journal of Infertility and Fetal M 2010, 1, 11-18.	edicine, o	0.0	2
515	CO2 directly modulates connexin 26 by formation of carbamate bridges between subunits. 2, e01213.	ELife, 2013, 2	2.8	103
516	Structure of the human volume regulated anion channel. ELife, 2018, 7, .	:	2.8	91
517	The Cryo-EM structure of pannexin 1 reveals unique motifs for ion selection and inhibition. E 2020, 9, .	ELife, 2	2.8	103
518	Cryo-EM structures and functional properties of CALHM channels of the human placenta. EL 9, .	.ife, 2020,	2.8	26
519	RIP-MD: a tool to study residue interaction networks in protein molecular dynamics. PeerJ, 2 e5998.	018, 6,	0.9	44
522	A Description of a Structure Determination Procedure of a Gap Junction Channel at 3.5A Res Nihon Kessho Gakkaishi, 2009, 51, 327-333.	solution o	0.0	0
523	Structure of Human Gap Junction Channel. Seibutsu Butsuri, 2010, 50, 190-191.		0.0	0
524	Structural Biology of Neural Systems. Seibutsu Butsuri, 2010, 50, 276-281.	(0.0	0
525	生体è¶å^†åã®æ§‹é€ãëæ©Ÿèƒ½ã®è§£æ~Ž. Nihon Kessho Gakkaishi, 2010, 52, s1-s2.		0.0	0
526	Structure of the Gap Junction Channel. Nihon Kessho Gakkaishi, 2010, 52, 25-30.	(0.0	0
527	Prediction of three-dimensional transmembrane helical protein structures. , 2010, , 231-249			1
528	Structural Studies on Membrane Proteins in Biological Macromolecular Assemblies in Japan. Kessho Gakkaishi, 2010, 52, 3-7.	Nihon	0.0	0
529	Rolipram Inhibits Phosphorylation and Activation of ERK/MAP Kinase Signalling Pathways in Allergen-activated Human Peripheral Mononuclear Cells. International Journal of Pharmacolc 2010, 6, 600-607.	ogy, o	0.1	1

#	Article	IF	CITATIONS
531	High-Resolution Atomic Force Microscopy of Native Membranes. , 2011, , 21-44.		0
533	Gating Dynamics of the Potassium Channel Pore \hat{a} $^+$. , 2017, , .		1
539	Helical Assemblies. , 2019, , 111-151.		0
540	High-Resolution Atomic Force Microscopy of Native Membranes. , 2019, , 21-44.		0
550	cAMP controls a trafficking mechanism that maintains the neuron specificity and subcellular placement of electrical synapses. Developmental Cell, 2021, 56, 3235-3249.e4.	3.1	11
551	Haplotype Diversity and Reconstruction of Ancestral Haplotype Associated with the c.35delG Mutation in the GJB2 (Cx26) Gene among the Volgo-Ural Populations of Russia. Acta Naturae, 2011, 3, 52-63.	1.7	7
552	A novel connexin 50 gene (gap junction protein, alpha 8) mutation associated with congenital nuclear and zonular pulverulent cataract. Molecular Vision, 2013, 19, 767-74.	1.1	21
553	A Cell-Based Assay to Assess Hemichannel Function. Yale Journal of Biology and Medicine, 2017, 90, 87-95.	0.2	3
555	Gene Mutations in Non-Syndromic Hearing Loss of Bloch, Kurd, and Turkmen Ethnicities in Iran. Iranian Journal of Public Health, 2020, 49, 2128-2135.	0.3	0
556	Cancer associated-fibroblast-derived exosomes in cancer progression. Molecular Cancer, 2021, 20, 154.	7.9	116
557	Gjb3 Gene Mutations in Non-Syndromic Hearing Loss of Bloch, Kurd, and Turkmen Ethnicities in Iran. Iranian Journal of Public Health, 2020, 49, 2128-2135.	0.3	1
558	Layer-by-layer assembly of multi-layered droplet interface bilayers (multi-DIBs). Chemical Communications, 2021, 58, 60-63.	2.2	0
559	Connexins evolved after early chordates lost innexin diversity. ELife, 2022, 11, .	2.8	7
560	Brain <scp>H⁺/CO₂</scp> sensing and control by glial cells. Glia, 2022, 70, 1520-1535.	2.5	15
561	Structures of human pannexin-1 in nanodiscs reveal gating mediated by dynamic movement of the N terminus and phospholipids. Science Signaling, 2022, 15, eabg6941.	1.6	34
562	Limited Impact of Murine Placental MDR1 on Fetal Exposure of Certain Drugs Explained by Bypass Transfer Between Adjacent Syncytiotrophoblast Layers. Pharmaceutical Research, 2022, 39, 1645-1658.	1.7	5
563	The Amino Terminal Domain and Modulation of Connexin36 Gap Junction Channels by Intracellular Magnesium Ions. Frontiers in Physiology, 2022, 13, 839223.	1.3	2
564	Conformational changes and CO2-induced channel gating in connexin26. Structure, 2022, 30, 697-706.e4.	1.6	7

#	Article	IF	CITATIONS
567	Carbon Dioxide and the Carbamate Post-Translational Modification. Frontiers in Molecular Biosciences, 2022, 9, 825706.	1.6	9
568	<i>De novo</i> design of membrane transport proteins. Proteins: Structure, Function and Bioinformatics, 2022, 90, 1800-1806.	1.5	2
569	Role and Posttranslational Regulation of Cx46 Hemichannels and Gap Junction Channels in the Eye Lens. Frontiers in Physiology, 2022, 13, 864948.	1.3	5
570	Connexons Coupling to Gap Junction Channel: Potential Role for Extracellular Protein Stabilization Centers. Biomolecules, 2022, 12, 49.	1.8	7
571	Calmodulin-Connexin Partnership in Gap Junction Channel Regulation-Calmodulin-Cork Gating Model. International Journal of Molecular Sciences, 2021, 22, 13055.	1.8	5
576	Connexin 26 (GJB2) gene mutations linked with autosomal recessive non-syndromic sensor neural hearing loss in the Iraqi population. Journal of Medicine and Life, 2021, 14, 841-846.	0.4	0
578	Regulators of cell volume: The structural and functional properties of anion channels of the LRRC8 family. Current Opinion in Structural Biology, 2022, 74, 102382.	2.6	8
579	Recent advances in connexin gap junction biology. Faculty Reviews, 0, 11, .	1.7	13
580	Ab initio phasing macromolecular structures using electron-counted MicroED data. Nature Methods, 2022, 19, 724-729.	9.0	29
581	Altered neural cell junctions and ion-channels leading to disrupted neuron communication in Parkinson's disease. Npj Parkinson's Disease, 2022, 8, .	2.5	15
582	Connexin and Pannexin Large-Pore Channels in Microcirculation and Neurovascular Coupling Function. International Journal of Molecular Sciences, 2022, 23, 7303.	1.8	1
583	Extracellular Cysteines Are Critical to Form Functional Cx46 Hemichannels. International Journal of Molecular Sciences, 2022, 23, 7252.	1.8	6
584	A Quantitative Assay for Ca2+ Uptake through Normal and Pathological Hemichannels. International Journal of Molecular Sciences, 2022, 23, 7337.	1.8	3
585	Quantitative Comparison of Breast Cancer Resistance Protein (BCRP/ABCG2) Expression and Function Between Maternal Blood-Brain Barrier and Placental Barrier in Mice at Different Gestational Ages. Frontiers in Drug Delivery, 0, 2, .	0.4	1
586	The Bioactive Phenolic Agents Diaryl Ether CVB2-61 and Diarylheptanoid CVB4-57 as Connexin Hemichannel Blockers. Pharmaceuticals, 2022, 15, 1173.	1.7	0
587	Frequency responses for induced neural transmembrane potential by electromagnetic waves (1ÅkHz to) Tj ETQq1	1,0,7843 0,4	14 rgBT /O
588	Gap junctions mediate discrete regulatory steps during fly spermatogenesis. PLoS Genetics, 2022, 18, e1010417.	1.5	2
589	GJB2 and GJB6 gene transcripts in the human cochlea: A study using RNAscope, confocal, and super-resolution structured illumination microscopy. Frontiers in Molecular Neuroscience, 0, 15, .	1.4	4

#	Article	IF	CITATIONS
590	Comprehensive interpretation of single-nucleotide substitutions in GJB2 reveals the genetic and phenotypic landscape of GJB2-related hearing loss. Human Genetics, 2023, 142, 33-43.	1.8	4
591	Connexins and Pannexins: Important Players in Neurodevelopment, Neurological Diseases, and Potential Therapeutics. Biomedicines, 2022, 10, 2237.	1.4	2
592	The pro- and anti-tumoral properties of gap junctions in cancer and their role in therapeutic strategies. Redox Biology, 2022, 57, 102503.	3.9	4
593	The Hydrophobic Residues in Amino Terminal Domains of Cx46 and Cx50 Are Important for Their Gap Junction Channel Ion Permeation and Gating. International Journal of Molecular Sciences, 2022, 23, 11605.	1.8	5
594	Intramembrane client recognition potentiates the chaperone functions of calnexin. EMBO Journal, 2022, 41, .	3.5	7
595	Inhibition of connexin hemichannels alleviates neuroinflammation and hyperexcitability in temporal lobe epilepsy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	18
596	Biallelic mutations in pakistani families with autosomal recessive prelingual nonsyndromic hearing loss. Genes and Genomics, 0, , .	0.5	0
597	Alternative neural systems: What is a neuron? (Ctenophores, sponges and placozoans). Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	10
598	Molecular diagnosis of autosomal dominant congenital cataract in two families from North India reveals a novel and a known variant in GJA8 and GJA3. Frontiers in Pediatrics, 0, 10, .	0.9	1
599	Divergence between Hemichannel and Gap Junction Permeabilities of Connexin 30 and 26. Life, 2023, 13, 390.	1.1	0
600	Channel-mediated ATP release in the nervous system. Neuropharmacology, 2023, 227, 109435.	2.0	4
601	Protein kinase A activation alleviates cataract formation via increased gap junction intercellular communication. IScience, 2023, 26, 106114.	1.9	6
602	GJB4 variants linked to skin disease exhibit a trafficking deficiency en route to gap junction formation that can be restored by co-expression of select connexins. Frontiers in Cell and Developmental Biology, 0, 11, .	1.8	1
603	Conformational changes in the human Cx43/GJA1 gap junction channel visualized using cryo-EM. Nature Communications, 2023, 14, .	5.8	13
604	KIO4 an Aminoglycosides-Derived Molecule Acts as an Inhibitor of Human Connexin46 Hemichannels Expressed in HeLa Cells. Biomolecules, 2023, 13, 411.	1.8	0
605	Cryo-EM structure of human heptameric pannexin 2 channel. Nature Communications, 2023, 14, .	5.8	6
607	Cryo-EM structures of human Cx36/GJD2 neuronal gap junction channel. Nature Communications, 2023, 14, .	5.8	11
608	Molecular Mechanisms and Clinical Phenotypes of GJB2 Missense Variants. Biology, 2023, 12, 505.	1.3	4

		CITATION REPORT		
#	Article		IF	Citations
609	Structural and functional analysis of human pannexin 2 channel. Nature Communication	ons, 2023, 14, .	5.8	6
610	Overview of junctional complexes during mammalian early embryonic development. Fr Endocrinology, 0, 14, .	ontiers in	1.5	1
639	Connexin-Containing Vesicles for Drug Delivery. AAPS Journal, 2024, 26, .		2.2	0