Eric C Beyer

List of PR Articles by Year
in descending order

129 PR articles	7,862 PR citations	33822 46 PR h-index	37166 86 g-index
143 documents	9047 doc citations	41080 47 h-index	6120 citing authors

#	Article	IF	PR Citations
1	Connexin channels and hemichannels are modulated differently by charge reversal at residues forming the intracellular pocket. Biological Research, 2024, 57, .	4.3	2
2	A crystallin mutant cataract with mineral deposits. Journal of Biological Chemistry, 2023, 299, 104935.	2.2	3
3	Cataract-linked serine mutations in the gap junction protein connexin50 expose a sorting signal that promotes its lysosomal degradation. Journal of Biological Chemistry, 2022, 298, 101673.	2.2	9
4	Circulating Small Extracellular Vesicles May Contribute to Vaso-Occlusive Crises in Sickle Cell Disease. Journal of Clinical Medicine, 2022, 11, 816.	2.6	7
5	Levels and Modifications of Both Lens Fiber Cell Connexins Are Affected in Connexin Mutant Mice. Cells, 2022, 11, 2786.	4.8	1
6	Molecular mechanisms underlying enhanced hemichannel function of a cataract-associated Cx50Âmutant. Biophysical Journal, 2021, 120, 5644-5656.	2.2	13
7	Circulating Extracellular Vesicles and Endothelial Damage in Sickle Cell Disease. Frontiers in Physiology, 2020, 11, .	2.9	21
8	Gap Junctions between Endothelial Cells Are Disrupted by Circulating Extracellular Vesicles from Sickle Cell Patients with Acute Chest Syndrome. International Journal of Molecular Sciences, 2020, 21, 8884.	4.5	10
9	Do Connexin Mutants Cause Cataracts by Perturbing Glutathione Levels and Redox Metabolism in the Lens?. Biomolecules, 2020, 10, 1418.	4.4	12
10	Connexin Mutants Compromise the Lens Circulation and Cause Cataracts through Biomineralization. International Journal of Molecular Sciences, 2020, 21, 5822.	4.5	43
11	ZO-1 Regulates Intercalated Disc Composition and Atrioventricular Node Conduction. Circulation Research, 2020, 127, .	12.5	20
12	Circulating extracellular vesicles from patients with acute chest syndrome disrupt adherens junctions between endothelial cells. Pediatric Research, 2020, 89, 776-784.	2.4	9
13	The Connexin50D47A Mutant Causes Cataracts by Calcium Precipitation. , 2019, 60, 2336.		25
14	Connecting Exosomes and Connexins. Cancers, 2019, 11, 476.	4.0	34
15	Gap junction gene and protein families: Connexins, innexins, and pannexins. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 5-8.	2.2	187
16	Chemical chaperone treatment improves levels and distributions of connexins in Cx50D47A mouse lenses. Experimental Eye Research, 2018, 175, 192-198.	2.6	12
17	Disruption of the lens circulation causes calcium accumulation and precipitates in connexin mutant mice. American Journal of Physiology - Cell Physiology, 2018, 314, C492-C503.	4.3	33
18	Intermittent hypoxia causes NOX2-dependent remodeling of atrial connexins. BMC Cell Biology, 2017, 18, .	3.9	28

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19	Exosomes contribute to endothelial integrity and acute chest syndrome risk: Preliminary findings. Pediatric Pulmonology, 2017, 52, 1478-1485.	2.2	18
20	Connexins in Cardiovascular and Neurovascular Health and Disease: Pharmacological Implications. Pharmacological Reviews, 2017, 69, 396-478.	16.0	222
21	Mono-Heteromeric Configurations of Gap Junction Channels Formed by Connexin43 and Connexin45 Reduce Unitary Conductance and Determine both Voltage Gating and Metabolic Flux Asymmetry. Frontiers in Physiology, 2017, 8, .	2.9	6
22	Physiological and Optical Alterations Precede the Appearance of Cataracts in Cx46fs380 Mice. , 2017, 58, 4366.		18
23	Characterization of a variant of gap junction protein Î±8 identified in a family with hereditary cataract. PLoS ONE, 2017, 12, e0183438.	2.4	8
24	Gap junction structure: unraveled, but not fully revealed. F1000Research, 2017, 6, 568.	0.5	26
25	The Cataract-linked Mutant Connexin50D47A Causes Endoplasmic Reticulum Stress in Mouse Lenses. Journal of Biological Chemistry, 2016, 291, 17569-17578.	2.2	32
26	Connexin23 deletion does not affect lens transparency. Experimental Eye Research, 2016, 146, 283-288.	2.6	6
27	Exosomes from Patients with Sickle Cell Disease and History of Acute Chest Syndrome Alter Endothelial Integrity In Vitro. Blood, 2016, 128, 855-855.	4.2	0
28	Gap Junction Protein Connexin43 Exacerbates Lung Vascular Permeability. PLoS ONE, 2014, 9, e100931.	2.4	61
29	Connexin hemichannels in the lens. Frontiers in Physiology, 2014, 5, .	2.9	85
30	Connexin46fs380 Causes Progressive Cataracts. , 2014, 55, 6639.		21
31	Roles and regulation of lens epithelial cell connexins. FEBS Letters, 2014, 588, 1297-1303.	2.7	41
32	Degradation of a connexin40 mutant linked to atrial fibrillation is accelerated. Journal of Molecular and Cellular Cardiology, 2014, 74, 330-339.	3.9	25
33	Connexin40 abnormalities and atrial fibrillation in the human heart. Journal of Molecular and Cellular Cardiology, 2014, 76, 159-168.	3.9	65
34	c-Src Kinase Inhibition Reduces Arrhythmia Inducibility and Connexin43 Dysregulation After Myocardial Infarction. Journal of the American College of Cardiology, 2014, 63, 928-934.	2.4	53
35	Atrial fibrillationâ€associated Connexin40 mutants make hemichannels and synergistically form gap junction channels with novel properties. FEBS Letters, 2014, 588, 1458-1464.	2.7	17
36	The Connexin46 Mutant, Cx46T19M, Causes Loss of Gap Junction Function and Alters Hemi-channel Gating. Journal of Membrane Biology, 2014, 248, 145-155.	2.5	13

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37	An MIP/AQP0 mutation with impaired trafficking and function underlies an autosomal dominant congenital lamellar cataract. Experimental Eye Research, 2013, 110, 136-141.	2.6	35
38	c-Jun N-terminal kinase activation contributes to reduced connexin43 and development of atrial arrhythmias. Cardiovascular Research, 2013, 97, 589-597.	5.7	72
39	A Connexin50 Mutant, CX50fs, That Causes Cataracts Is Unstable, but Is Rescued by a Proteasomal Inhibitor. Journal of Biological Chemistry, 2013, 288, 20427-20434.	2.2	24
40	Connexin50D47A Decreases Levels of Fiber Cell Connexins and Impairs Lens Fiber Cell Differentiation. , 2013, 54, 7614.		37
41	Connexin Mutants and Cataracts. Frontiers in Pharmacology, 2013, 4, .	4.0	98
42	Interfering amino terminal peptides and functional implications for heteromeric gap junction formation. Frontiers in Pharmacology, 2013, 4, .	4.0	14
43	Critical role of the first transmembrane domain of Cx26 in regulating oligomerization and function. Molecular Biology of the Cell, 2012, 23, 3299-3311.	2.5	38
44	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.	2.2	29
45	Cytoplasmic Amino Acids within the Membrane Interface Region Influence Connexin Oligomerization. Journal of Membrane Biology, 2012, 245, 221-230.	2.5	32
46	Inducible Coexpression of Connexin37 or Connexin40 with Connexin43 Selectively Affects Intercellular Molecular Transfer. Journal of Membrane Biology, 2012, 245, 231-241.	2.5	8
47	Different domains are critical for oligomerization compatibility of different connexins. Biochemical Journal, 2011, 436, 35-43.	3.9	18
48	Autophagy: a pathway that contributes to connexin degradation. Journal of Cell Science, 2011, 124, 910-920.	2.5	122
49	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.	2.2	33
50	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.	4.3	41
51	Connexin40 and connexin43 determine gating properties of atrial gap junction channels. Journal of Molecular and Cellular Cardiology, 2010, 48, 238-245.	3.9	47
52	A Mutant Connexin50 with Enhanced Hemichannel Function Leads to Cell Death. , 2009, 50, 5837.		80
53	Oxidative Stress, Lens Gap Junctions, and Cataracts. Antioxidants and Redox Signaling, 2009, 11, 339-353.	6.5	242
54	The N Terminus of Connexin37 Contains an Î±-Helix That Is Required for Channel Function. Journal of Biological Chemistry, 2009, 284, 20418-20427.	2.2	22

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55	The cytoplasmic accumulations of the cataract-associated mutant, Connexin50P88S, are long-lived and form in the endoplasmic reticulum. Experimental Eye Research, 2009, 88, 600-609.	2.6	25
56	Cx30.2 can form heteromeric gap junction channels with other cardiac connexins. Biochemical and Biophysical Research Communications, 2008, 369, 388-394.	2.1	33
57	Cataracts Are Caused by Alterations of a Critical N-Terminal Positive Charge in Connexin50. , 2008, 49, 2549.		33
58	An intact connexin N-terminus is required for function but not gap junction formation. Journal of Cell Science, 2008, 121, 2744-2750.	2.5	52
59	Connexin43 increases the sensitivity of prostate cancer cells to TNFÎ±-induced apoptosis. Journal of Cell Science, 2007, 120, 320-329.	2.5	46
60	Transgenic overexpression of connexin50 induces cataracts. Experimental Eye Research, 2007, 84, 513-528.	2.6	30
61	N-terminal residues in Cx43 and Cx40 determine physiological properties of gap junction channels, but do not influence heteromeric assembly with each other or with Cx26. Journal of Cell Science, 2006, 119, 2258-2268.	2.5	41
62	Dynamic model for ventricular junctional conductance during the cardiac action potential. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H1113-H1123.	3.7	37
63	An Aberrant Sequence in a Connexin46 Mutant Underlies Congenital Cataracts. Journal of Biological Chemistry, 2005, 280, 40788-40795.	2.2	64
64	Connexin43 with a cytoplasmic loop deletion inhibits the function of several connexins. Biochemical and Biophysical Research Communications, 2005, 333, 1185-1193.	2.1	12
65	Polyvalent Cations Constitute the Voltage Gating Particle in Human Connexin37 Hemichannels. Journal of General Physiology, 2004, 124, 587-603.	2.4	39
66	Connexin43 and connexin26 form gap junctions, but not heteromeric channels in co-expressing cells. Journal of Cell Science, 2004, 117, 2469-2480.	2.5	84
67	Pathways for degradation of connexins and gap junctions. Cardiovascular Research, 2004, 62, 256-267.	5.7	161
68	Transcriptional regulation of the murine promoter by cardiac factors Nkx2-5, GATA4 and Tbx5. Cardiovascular Research, 2004, 64, 402-411.	5.7	100
69	Amino terminal glutamate residues confer spermine sensitivity and affect voltage gating and channel conductance of rat connexin40 gap junctions. Journal of Physiology, 2004, 557, 863-878.	3.4	73
70	Highly restricted pattern of connexin36 expression in chick somite development. Anatomy and Embryology, 2004, 209, 11-18.	0.0	15
71	Adenoviral delivery of human connexin37 induces endothelial cell death through apoptosis. Biochemical and Biophysical Research Communications, 2004, 319, 1144-1151.	2.1	37
72	Loss of function and impaired degradation of a cataract-associated mutant connexin50. European Journal of Cell Biology, 2003, 82, 209-221.	4.0	91

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73	New Developments in the Gap Junction Field: Report from the 2002 ASCB Meeting. Cell Communication and Adhesion, 2003, 10, 55-58.	3.3	0
74	A Carboxyl Terminal Domain of Connexin43 Is Critical for Gap Junction Plaque Formation but not for Homo- or Hetero-Oligomerization. Cell Communication and Adhesion, 2003, 10, 323-328.	3.3	15
75	Plasma Membrane Channels Formed by Connexins: Their Regulation and Functions. Physiological Reviews, 2003, 83, 1359-1400.	25.9	1,101
76	A Carboxyl Terminal Domain of Connexin43 Is Critical for Gap Junction Plaque Formation but not for Homo- or Hetero-Oligomerization. Cell Communication and Adhesion, 2003, 10, 323-328.	3.3	1
77	Connexin43 and Connexin45 Form Heteromeric Gap Junction Channels in Which Individual Components Determine Permeability and Regulation. Circulation Research, 2002, 90, 1100-1107.	12.5	159
78	Cardiac Gap Junction Channels Show Quantitative Differences in Selectivity. Circulation Research, 2002, 91, 104-111.	12.5	138
79	Redistribution of connexin45 in gap junctions of connexin43-deficient hearts. Cardiovascular Research, 2002, 53, 921-935.	5.7	50
80	Gap Junction Synthesis and Degradation as Therapeutic Targets. Current Drug Targets, 2002, 3, 409-416.	1.9	19
81	Heterotypic Docking of Cx43 and Cx45 Connexons Blocks Fast Voltage Gating of Cx43. Biophysical Journal, 2001, 81, 1406-1418.	2.2	112
82	Gap junction channels formed by coexpressed connexin40 and connexin43. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H1675-H1689.	3.7	122
83	Heteromeric connexons formed by the lens connexins, connexin43 and connexin56. European Journal of Cell Biology, 2001, 80, 11-19.	4.0	37
84	Heteromeric Mixing of Connexins: Compatibility of Partners and Functional Consequences. Cell Communication and Adhesion, 2001, 8, 199-204.	3.3	44
85	Mouse Connexin 45: Genomic Cloning and Exon Usage. DNA and Cell Biology, 2001, 20, 11-19.	2.2	23
86	Mouse connexin37: gene structure and promoter analysis. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2000, 1492, 499-504.	3.5	16
87	Gap junctions in the chicken pineal gland. Brain Research, 2000, 861, 257-270.	2.5	10
88	Connexin46 mutations linked to congenital cataract show loss of gap junction channel function. American Journal of Physiology - Cell Physiology, 2000, 279, C596-C602.	4.3	89
89	Gap junction genes and their regulation. Advances in Molecular and Cell Biology, 2000, , 1-30.	0.4	5
90	Functional Expression and Biophysical Properties of Polymorphic Variants of the Human Gap Junction Protein Connexin37. Biochemical and Biophysical Research Communications, 2000, 274, 216-224.	2.1	36

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91	Connexin and Gap Junction Degradation. Methods, 2000, 20, 180-187.	3.6	34
92	Heterogeneous Localization of Connexin40 in the Renal Vasculature. Microvascular Research, 2000, 59, 140-148.	2.6	78
93	Cultured Chicken Embryo Lens Cells Resemble Differentiating Fiber Cells in vivo and Contain Two Kinetic Pools of Connexin56. Experimental Eye Research, 1999, 68, 475-484.	2.6	44
94	Regulation of connexin43 expression and function by prostaglandin E2 (PGE2) and parathyroid hormone (PTH) in osteoblastic cells. Journal of Cellular Biochemistry, 1998, 68, 8-21.	3.1	107
95	Effects of angiotensin II on expression of the gap junction channel protein connexin43 in neonatal rat ventricular myocytes. Journal of the American College of Cardiology, 1998, 32, 800-807.	2.4	89
96	Differential Expression of Gap Junction Proteins in the Canine Sinus Node. Circulation Research, 1998, 82, 604-612.	12.5	117
97	Rapid Turnover of Connexin43 in the Adult Rat Heart. Circulation Research, 1998, 83, 629-635.	12.5	416
98	Degradation of Connexin43 Gap Junctions Involves both the Proteasome and the Lysosome. Experimental Cell Research, 1997, 236, 482-492.	3.2	231
99	Mouse Connexin40: Gene Structure and Promoter Analysis. Genomics, 1997, 46, 120-126.	2.8	52
100	The Gap-Junction Protein Connexin 56 is Phosphorylated in the Intracellular Loop and the Carboxy-Terminal Region. FEBS Journal, 1997, 244, 89-97.	0.2	48
101	Rat uterine myometrium contains the gap junction protein connexin45, which has a differing temporal expression pattern from connexin43. American Journal of Obstetrics and Gynecology, 1996, 175, 853-858.	2.4	28
102	Reply to the Editor. Journal of Cardiovascular Electrophysiology, 1996, 7, 382-385.	2.1	0
103	Functional and Structural Assessment of Intercellular Communication. Circulation Research, 1996, 79, 174-183.	12.5	142
104	Structural and molecular determinants of intercellular coupling in cardiac myocytes. Microscopy Research and Technique, 1995, 31, 357-363.	2.1	11
105	Gap Junction Protein Phenotypes of the Human Heart and Conduction System. Journal of Cardiovascular Electrophysiology, 1995, 6, 813-822.	2.1	194
106	The Molecular Basis of Anisotropy: Role of Gap Junctions. Journal of Cardiovascular Electrophysiology, 1995, 6, 498-510.	2.1	114
107	Modulation of Connexin43 Expression:.. Journal of Cardiovascular Electrophysiology, 1995, 6, 103-114.	2.1	8
108	The Gap Junction Protein Connexin43 Is Degraded via the Ubiquitin Proteasome Pathway. Journal of Biological Chemistry, 1995, 270, 26399-26403.	2.2	228

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109	Expression of Multiple Connexins in Cultured Neonatal Rat Ventricular Myocytes. Circulation Research, 1995, 76, 381-387.	12.5	147
110	Unique Conductance, Gating, and Selective Permeability Properties of Gap Junction Channels Formed by Connexin40. Circulation Research, 1995, 77, 813-822.	12.5	101
111	Selectivity of Connexin-Specific Gap Junctions Does Not Correlate With Channel Conductance. Circulation Research, 1995, 77, 1156-1165.	12.5	232
112	Expression of Multiple Gap Junction Proteins in Human Fetal and Infant Hearts. Pediatric Research, 1994, 36, 561-566.	2.4	43
113	Localization and distribution of gap junctions in normal and cardiomyopathic hamster heart. Journal of Morphology, 1994, 222, 203-213.	1.3	33
114	Expression patterns of mRNAs for the gap junction proteins connexin43 and connexin42 suggest their involvement in chick limb morphogenesis and specification of the arterial vasculature. Developmental Dynamics, 1994, 199, 156-167.	1.8	36
115	Distinct gap junction protein phenotypes in cardiac tissues with disparate conduction properties. Journal of the American College of Cardiology, 1994, 24, 1124-1132.	2.4	178
116	Molecular Cloning of Two Human Cardiac Gap Junction Proteins, Connexin40 and Connexin45. Journal of Molecular and Cellular Cardiology, 1994, 26, 861-868.	3.9	62
117	Molecular cloning and expression of rat connexin40, a gap junction protein expressed in vascular smooth muscle. Journal of Membrane Biology, 1992, 127, 69-76.	2.5	105
118	Cardiac myocyte interconnections at gap junctions. Trends in Cardiovascular Medicine, 1992, 2, 56-60.	7.5	35
119	In vivo modulation of connexin 43 gene expression and junctional coupling of pancreatic B-cells. Experimental Cell Research, 1991, 192, 469-480.	3.2	84
120	Zygotic expression of the connexin43 gene supplies subunits for gap junction assembly during mouse preimplantation development. Molecular Reproduction and Development, 1991, 30, 18-26.	2.9	57
121	Connexin family of gap junction proteins. Journal of Membrane Biology, 1990, 116, 187-194.	2.5	534
122	Expression of the gap junction protein connexin43 in embryonic chick lens: Molecular cloning, ultrastructural localization, and post-translational phosphorylation. Journal of Membrane Biology, 1990, 116, 163-175.	2.5	335
123	Formation of gap junctions by expression of connexins in Xenopus oocyte pairs. Cell, 1989, 57, 145-155.	34.1	322
124	Monocyte bone degradation: In vitro analysis of monocyte activity in patients with juvenile rheumatoid arthritis. Journal of Pediatrics, 1986, 108, 405-409.	2.0	7
125	Normal long-term survival with Î±-thalassemia. Journal of Pediatrics, 1986, 108, 716-718.	2.0	61
126	Endogenous lectins in chickens and slime molds: Transfer from intracellular to extracellular sites. Journal of Supramolecular Structure and Cellular Biochemistry, 1981, 16, 233-242.	1.7	12

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127	Chicken tissue binding sites for a purified chicken lectin. Journal of Supramolecular Structure, 1980, 13, 219-227.	2.1	29
128	Muscle development in vitro following X irradiation. Developmental Biology, 1978, 66, 457-469.	1.9	14
129	Developmentally regulated lectins from chick muscle, brain, and liver have similar chemical and immunological properties. Developmental Biology, 1978, 64, 265-272.	1.9	74