

Donglin Bai

List of Publications by Year in descending order

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79
papers

3,700
citations

159358

30
h-index

133063

59
g-index

80
all docs

80
docs citations

80
times ranked

3648
citing authors

#	ARTICLE	IF	CITATIONS
1	Somatic Mutations in the Connexin 40 Gene (GJA5) in Atrial Fibrillation. <i>New England Journal of Medicine</i> , 2006, 354, 2677-2688.	13.9	510
2	Pannexin 1 and pannexin 3 are glycoproteins that exhibit many distinct characteristics from the connexin family of gap junction proteins. <i>Journal of Cell Science</i> , 2007, 120, 3772-3783.	1.2	369
3	Distinct Functional and Pharmacological Properties of Tonic and Quantal Inhibitory Postsynaptic Currents Mediated by I^3 -Aminobutyric Acid Receptors in Hippocampal Neurons. <i>Molecular Pharmacology</i> , 2001, 59, 814-824.	1.0	335
4	Actions of imidacloprid and a related nitromethylene on cholinergic receptors of an identified insect motor neurone. <i>Pest Management Science</i> , 1991, 33, 197-204.	0.7	263
5	A Gja1 missense mutation in a mouse model of oculodentodigital dysplasia. <i>Development (Cambridge)</i> , 2005, 132, 4375-4386.	1.2	211
6	The General Anesthetic Propofol Slows Deactivation and Desensitization of GABA _A Receptors. <i>Journal of Neuroscience</i> , 1999, 19, 10635-10646.	1.7	175
7	Block of Specific Gap Junction Channel Subtypes by 2-Aminoethoxydiphenyl Borate (2-APB). <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 319, 1452-1458.	1.3	112
8	Oculodentodigital Dysplasia-causing Connexin43 Mutants Are Non-functional and Exhibit Dominant Effects on Wild-type Connexin43. <i>Journal of Biological Chemistry</i> , 2005, 280, 11458-11466.	1.6	106
9	Functional Characterization of Oculodentodigital Dysplasia-Associated Cx43 Mutants. <i>Cell Communication and Adhesion</i> , 2005, 12, 279-292.	1.0	67
10	ClinGen expert clinical validity curation of 164 hearing loss gene-disease pairs. <i>Genetics in Medicine</i> , 2019, 21, 2239-2247.	1.1	67
11	In CA1 Pyramidal Neurons of the Hippocampus Protein Kinase C Regulates Calcium-Dependent Inactivation of NMDA Receptors. <i>Journal of Neuroscience</i> , 2000, 20, 4452-4461.	1.7	63
12	Functional Characterization of aGJA1Frameshift Mutation Causing Oculodentodigital Dysplasia and Palmoplantar Keratoderma. <i>Journal of Biological Chemistry</i> , 2006, 281, 31801-31811.	1.6	63
13	Differential Potency of Dominant Negative Connexin43 Mutants in Oculodentodigital Dysplasia. <i>Journal of Biological Chemistry</i> , 2007, 282, 19190-19202.	1.6	62
14	In vivo analysis of undocked connexin43 gap junction hemichannels in ovarian granulosa cells. <i>Journal of Cell Science</i> , 2007, 120, 4016-4024.	1.2	53
15	Extracellular domains play different roles in gap junction formation and docking compatibility. <i>Biochemical Journal</i> , 2014, 458, 1-10.	1.7	52
16	Novel GermlineGJA5/Connexin40 Mutations Associated with Lone Atrial Fibrillation Impair Gap Junctional Intercellular Communication. <i>Human Mutation</i> , 2013, 34, n/a-n/a.	1.1	51
17	A Dominant Loss-of-Function GJA1 (Cx43) Mutant Impairs Parturition in the Mouse1. <i>Biology of Reproduction</i> , 2009, 80, 1099-1106.	1.2	46
18	Atrial fibrillation-linked GJA5/connexin40 mutants impaired gap junctions via different mechanisms. <i>FEBS Letters</i> , 2014, 588, 1238-1243.	1.3	44

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19	Crucial motifs and residues in the extracellular loops influence the formation and specificity of connexin docking. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 9-21.	1.4	44
20	Asparagine 175 of Connexin32 Is a Critical Residue for Docking and Forming Functional Heterotypic Gap Junction Channels with Connexin26. <i>Journal of Biological Chemistry</i> , 2011, 286, 19672-19681.	1.6	43
21	Fate of connexin43 in cardiac tissue harbouring a disease-linked connexin43 mutant. <i>Cardiovascular Research</i> , 2008, 80, 385-395.	1.8	42
22	Patch-clamp study reveals that the importance of connexin43-mediated gap junctional communication for ovarian folliculogenesis is strain specific in the mouse. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C290-C297.	2.1	41
23	Structure and functional studies of N-terminal Cx43 mutants linked to oculodentodigital dysplasia. <i>Molecular Biology of the Cell</i> , 2012, 23, 3312-3321.	0.9	41
24	The severity of mammary gland developmental defects is linked to the overall functional status of Cx43 as revealed by genetically modified mice. <i>Biochemical Journal</i> , 2013, 449, 401-413.	1.7	41
25	Cyclic GMP-dependent feedback inhibition of AMPA receptors is independent of PKG. <i>Nature Neuroscience</i> , 2000, 3, 559-565.	7.1	38
26	GABAB Receptor Modulation of Rapid Inhibitory and Excitatory Neurotransmission From Subfornical Organ and Other Afferents to Median Preoptic Nucleus Neurons. <i>Journal of Neurophysiology</i> , 2004, 92, 111-122.	0.9	38
27	Human dermal fibroblasts derived from oculodentodigital dysplasia patients suggest that patients may have wound healing defects. <i>Human Mutation</i> , 2011, 32, 456-466.	1.1	38
28	D -Aspartate and NMDA, but not L -aspartate, block AMPA receptors in rat hippocampal neurons. <i>British Journal of Pharmacology</i> , 2005, 145, 449-459.	2.7	37
29	The Canonical WNT2 Pathway and FSH Interact to Regulate Gap Junction Assembly in Mouse Granulosa Cells1. <i>Biology of Reproduction</i> , 2013, 89, 39.	1.2	35
30	A gap junction docking mechanism revealed by functional rescue of a human disease-linked connexin mutant. <i>Journal of Cell Science</i> , 2013, 126, 3113-20.	1.2	34
31	Effects of [³ H]-BIDN, a novel bicyclic dinitrile radioligand for GABA-gated chloride channels of insects and vertebrates. <i>British Journal of Pharmacology</i> , 1997, 121, 1496-1505.	2.7	32
32	Autosomal recessive GJA1 (Cx43) gene mutations cause oculodentodigital dysplasia by distinct mechanisms. <i>Journal of Cell Science</i> , 2013, 126, 2857-66.	1.2	31
33	The Role of Amino Terminus of Mouse Cx50 in Determining Transjunctional Voltage-Dependent Gating and Unitary Conductance. <i>Biophysical Journal</i> , 2010, 99, 2077-2086.	0.2	28
34	Structural analysis of key gap junction domains—Lessons from genome data and disease-linked mutants. <i>Seminars in Cell and Developmental Biology</i> , 2016, 50, 74-82.	2.3	25
35	ANG II AT1 receptors induce depolarization and inward current in rat median preoptic neurons in vitro. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998, 275, R632-R639.	0.9	24
36	Junctional delay, frequency, and direction-dependent uncoupling of human heterotypic Cx45/Cx43 gap junction channels. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 111, 17-26.	0.9	23

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37	Functional Characterization of Novel Atrial Fibrillation-Linked GJA5 (Cx40) Mutants. <i>International Journal of Molecular Sciences</i> , 2018, 19, 977.	1.8	23
38	The distribution and functional properties of Pelizaeusâ€“Merzbacher-like disease-linked Cx47 mutations on Cx47/Cx47 homotypic and Cx47/Cx43 heterotypic gap junctions. <i>Biochemical Journal</i> , 2013, 452, 249-258.	1.7	22
39	Charge at the 46th residue of connexin 50 is crucial for the gapâ€“junctional unitary conductance and transjunctional voltageâ€“dependent gating. <i>Journal of Physiology</i> , 2014, 592, 5187-5202.	1.3	22
40	The <sc>G</sc>60<sc>S C</sc>x43 mutant enhances keratinocyte proliferation and differentiation. <i>Experimental Dermatology</i> , 2012, 21, 612-618.	1.4	21
41	Oogenesis defects in a mutant mouse model of oculodentodigital dysplasia. <i>DMM Disease Models and Mechanisms</i> , 2009, 2, 157-167.	1.2	20
42	An endoplasmic reticulum-retained atrial fibrillation-linked connexin40 mutant impairs atrial gap junction channel function. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 561-9.	1.2	20
43	Specific functional pathologies of Cx43 mutations associated with oculodentodigital dysplasia. <i>Molecular Biology of the Cell</i> , 2016, 27, 2172-2185.	0.9	20
44	Connexin45 (GJC1) loss-of-function mutation contributes to familial atrial fibrillation and conduction disease. <i>Heart Rhythm</i> , 2021, 18, 684-693.	0.3	20
45	Atrial Fibrillation-Linked Germline GJA5/Connexin40 Mutants Showed an Increased Hemichannel Function. <i>PLoS ONE</i> , 2014, 9, e95125.	1.1	18
46	Nonâ€“ionotropic crossâ€“talk between AMPA and NMDA receptors in rodent hippocampal neurones. <i>Journal of Physiology</i> , 2002, 543, 23-33.	1.3	17
47	Sodiumâ€“hydrogen exchange inhibition attenuates glycoside-induced hypertrophy in rat ventricular myocytes. <i>Cardiovascular Research</i> , 2010, 85, 79-89.	1.8	17
48	Connexin 46 and connexin 50 gap junction channel properties are shaped by structural and dynamic features of their Nâ€“terminal domains. <i>Journal of Physiology</i> , 2021, 599, 3313-3335.	1.3	15
49	Engineered Cx40 variants increased docking and function of heterotypic Cx40/Cx43 gap junction channels. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 90, 11-20.	0.9	14
50	Acetylcholine receptors of thoracic dorsal midline neurones in the cockroach, <i>Periplaneta americana</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 1992, 21, 289-301.	0.6	13
51	Aspartic Acid Residue D3 Critically Determines Cx50 Gap Junction Channel Transjunctional Voltage-Dependent Gating and Unitary Conductance. <i>Biophysical Journal</i> , 2012, 102, 1022-1031.	0.2	13
52	Functional roles of the amino terminal domain in determining biophysical properties of Cx50 gap junction channels. <i>Frontiers in Physiology</i> , 2013, 4, 373.	1.3	13
53	Muscarinic acetylcholine receptors on an identified motor neurone in the cockroach, <i>Periplaneta americana</i> . <i>Neuroscience Letters</i> , 1994, 175, 161-165.	1.0	12
54	d-Serine inhibits AMPA receptor-mediated current in rat hippocampal neurons. <i>Canadian Journal of Physiology and Pharmacology</i> , 2007, 85, 546-555.	0.7	12

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55	Engineered Cx26 variants established functional heterotypic Cx26/Cx43 and Cx26/Cx40 gap junction channels. <i>Biochemical Journal</i> , 2016, 473, 1391-1403.	1.7	12
56	Bicuculline-insensitive GABA-gated Cl ⁻ channels in the larval nervous system of the moth <i>Manduca sexta</i> . <i>Invertebrate Neuroscience</i> , 2003, 5, 37-43.	1.8	11
57	The First Extracellular Domain Plays an Important Role in Unitary Channel Conductance of Cx50 Gap Junction Channels. <i>PLoS ONE</i> , 2015, 10, e0143876.	1.1	11
58	Heterotypic docking compatibility of human connexin37 with other vascular connexins. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 127, 194-203.	0.9	8
59	Effects of temperature on transjunctional voltage-dependent gating kinetics in Cx45 and Cx40 gap junction channels. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 127, 185-193.	0.9	8
60	Actions of a coral toxin analogue (bipinnatin-B) on an insect nicotinic acetylcholine receptor. <i>Archives of Insect Biochemistry and Physiology</i> , 1993, 23, 155-159.	0.6	7
61	Variants with increased negative electrostatic potential in the Cx50 gap junction pore increased unitary channel conductance and magnesium modulation. <i>Biochemical Journal</i> , 2018, 475, 3315-3330.	1.7	7
62	Differential Domain Distribution of gnomAD- and Disease-Linked Connexin Missense Variants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7832.	1.8	7
63	Neosurugatoxin blocks an α -bungarotoxin-sensitive neuronal nicotinic acetylcholine receptor. <i>Archives of Insect Biochemistry and Physiology</i> , 1993, 23, 161-167.	0.6	6
64	The amino terminal domain plays an important role in transjunctional voltage-dependent gating kinetics of Cx45 gap junctions. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 143, 71-84.	0.9	6
65	Modulation of AMPA receptors by a novel organic nitrate. <i>Canadian Journal of Physiology and Pharmacology</i> , 2001, 79, 422-429.	0.7	5
66	Functional Characterization of a GJA1 Frameshift Mutation Causing Oculodentodigital Dysplasia and Palmoplantar Keratoderma. <i>Journal of Biological Chemistry</i> , 2006, 281, 31801-31811.	1.6	5
67	Heterotypic connexin50/connexin50 mutant gap junction channels reveal interactions between two hemichannels during transjunctional voltage-dependent gating. <i>Journal of Physiology</i> , 2012, 590, 5037-5052.	1.3	4
68	Interrogation of Carboxy-Terminus Localized GJA1 Variants Associated with Erythrokeratoderma Variabilis et Progressiva. <i>International Journal of Molecular Sciences</i> , 2022, 23, 486.	1.8	4
69	Patch Clamp Analysis of Gap Junction Channel Properties. , 2016, , 93-114.		2
70	The Residues in the First Extracellular Domain Play an Important Role in Transjunctional-Voltage Dependent Gating and Unitary Conductance of Cx50 Gap Junction Channels. <i>Biophysical Journal</i> , 2014, 106, 556a.	0.2	1
71	Asparagine175 of Cx32 is a Critical Residue for Docking and Forming Functional Heterotypic Gap Junction Channels with Cx26. <i>Biophysical Journal</i> , 2011, 100, 563a.	0.2	0
72	Molecular Mechanisms Governing Cx26/Cx32 Heterotypic Docking and Functional Gap Junction Channel Formation. <i>Biophysical Journal</i> , 2012, 102, 107a.	0.2	0

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73	Novel Transjunctional-Voltage Dependent Gating and Unitary Conductance Properties of the Heterotypic Gap Junction Channels Formed by Cx50 and Cx50 Chimera/Mutant. <i>Biophysical Journal</i> , 2012, 102, 107a-108a.	0.2	0
74	Hydrogen Bonds at the Docking Interface are Critical for Functional Gap Junction Channel Formation of Cx26 and Cx32. <i>Biophysical Journal</i> , 2013, 104, 43a.	0.2	0
75	The Residues in the First Extracellular Domain Play an Important Role in Transjunctional-Voltage Dependent Gating and Unitary Channel Conductance of Cx50 Gap Junction Channels. <i>Biophysical Journal</i> , 2015, 108, 442a.	0.2	0
76	Engineered Cx40 Variants Showed Heterotypic Colocalization and Increased GAP Junctional Coupling with Cx43. <i>Biophysical Journal</i> , 2016, 110, 118a.	0.2	0
77	The Residues in the Amino Terminal and First Extracellular Domains and Intracellular Magnesium Influence Cx50 Unitary Gap Junction Channel Conductance. <i>Biophysical Journal</i> , 2018, 114, 133a.	0.2	0
78	Heterotypic Docking Compatibility of Human Cx37 with Other Vascular Connexins. <i>Biophysical Journal</i> , 2019, 116, 241a.	0.2	0
79	INVOLVEMENT OF UNDOCKED CONNEXIN43 CONNEXONS IN MOUSE FOLLICULOGENESIS: ANALYSIS IN AN IN VIVO MODEL. <i>Biology of Reproduction</i> , 2007, 77, 222-222.	1.2	0