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List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

3,843
citations

159585

30
h-index

243625

44
g-index

46
all docs

46
docs citations

46
times ranked

2353
citing authors

#	ARTICLE	IF	CITATIONS
1	Expression of a potassium current in inner hair cells during development of hearing in mice. <i>Nature</i> , 1998, 394, 281-284.	27.8	370
2	The aminoglycoside antibiotic dihydrostreptomycin rapidly enters mouse outer hair cells through the mechano-ælectrical transducer channels. <i>Journal of Physiology</i> , 2005, 567, 505-521.	2.9	310
3	Beethoven, a mouse model for dominant, progressive hearing loss DFNA36. <i>Nature Genetics</i> , 2002, 30, 257-258.	21.4	246
4	Developmental changes in the expression of potassium currents of embryonic, neonatal and mature mouse inner hair cells. <i>Journal of Physiology</i> , 2003, 548, 383-400.	2.9	230
5	Development and properties of stereociliary link types in hair cells of the mouse cochlea. <i>Journal of Comparative Neurology</i> , 2005, 485, 75-85.	1.6	201
6	Developmental expression of the potassium current K_{n} contributes to maturation of mouse outer hair cells. <i>Journal of Physiology</i> , 1999, 520, 653-660.	2.9	191
7	Sodium and calcium currents shape action potentials in immature mouse inner hair cells. <i>Journal of Physiology</i> , 2003, 552, 743-761.	2.9	173
8	Increase in efficiency and reduction in Ca^{2+} -dependence of exocytosis during development of mouse inner hair cells. <i>Journal of Physiology</i> , 2005, 563, 177-191.	2.9	160
9	Cadherin 23 is a component of the transient lateral links in the developing hair bundles of cochlear sensory cells. <i>Developmental Biology</i> , 2005, 280, 281-294.	2.0	151
10	Position-dependent patterning of spontaneous action potentials in immature cochlear inner hair cells. <i>Nature Neuroscience</i> , 2011, 14, 711-717.	14.8	147
11	Mutations in Protocadherin 15 and Cadherin 23 Affect Tip Links and Mechanotransduction in Mammalian Sensory Hair Cells. <i>PLoS ONE</i> , 2011, 6, e19183.	2.5	128
12	A transiently expressed SK current sustains and modulates action potential activity in immature mouse inner hair cells. <i>Journal of Physiology</i> , 2004, 560, 691-708.	2.9	107
13	$Tmc1$ is necessary for normal functional maturation and survival of inner and outer hair cells in the mouse cochlea. <i>Journal of Physiology</i> , 2006, 574, 677-698.	2.9	101
14	Calcium entry into stereocilia drives adaptation of the mechano-electrical transducer current of mammalian cochlear hair cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14918-14923.	7.1	101
15	Aminoglycoside- and Cisplatin-Induced Ototoxicity: Mechanisms and Otoprotective Strategies. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2019, 9, a033548.	6.2	100
16	Effects of intracellular stores and extracellular Ca^{2+} on Ca^{2+} -activated K^{+} -currents in mature mouse inner hair cells. <i>Journal of Physiology</i> , 2004, 557, 613-633.	2.9	86
17	Myosin VI is required for the proper maturation and function of inner hair cell ribbon synapses. <i>Human Molecular Genetics</i> , 2009, 18, 4615-4628.	2.9	81
18	Harmonin-b, an actin-binding scaffold protein, is involved in the adaptation of mechano-electrical transduction by sensory hair cells. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 459, 115-130.	2.8	77

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19	Physiology of Mammalian Cochlear Hair Cells. Springer Handbook of Auditory Research, 1996, , 318-385.	0.7	67
20	Gating energies and forces of the mammalian hair cell transducer channel and related hair bundle mechanics. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 1915-1923.	2.6	66
21	<i>Tmc1</i> Point Mutation Affects Ca ²⁺ Sensitivity and Block by Dihydrostreptomycin of the Mechanoelectrical Transducer Current of Mouse Outer Hair Cells. Journal of Neuroscience, 2016, 36, 336-349.	3.6	62
22	Generating inner ear organoids containing putative cochlear hair cells from human pluripotent stem cells. Cell Death and Disease, 2018, 9, 922.	6.3	62
23	Mechanotransduction is required for establishing and maintaining mature inner hair cells and regulating efferent innervation. Nature Communications, 2018, 9, 4015.	12.8	54
24	Coordinated calcium signalling in cochlear sensory and non-sensory cells refines afferent innervation of outer hair cells. EMBO Journal, 2019, 38, .	7.8	52
25	ORC-13661 protects sensory hair cells from aminoglycoside and cisplatin ototoxicity. JCI Insight, 2019, 4, .	5.0	52
26	Transduction without Tip Links in Cochlear Hair Cells Is Mediated by Ion Channels with Permeation Properties Distinct from Those of the Mechano-Electrical Transducer Channel. Journal of Neuroscience, 2014, 34, 5505-5514.	3.6	46
27	Membrane capacitance measurement using patch clamp with integrated self-balancing lock-in amplifier. Pflugers Archiv European Journal of Physiology, 2002, 443, 653-663.	2.8	45
28	d-Tubocurarine and Berbamine: Alkaloids That Are Permeant Blockers of the Hair Cell's Mechano-Electrical Transducer Channel and Protect from Aminoglycoside Toxicity. Frontiers in Cellular Neuroscience, 2017, 11, 262.	3.7	40
29	How to build an inner hair cell: Challenges for regeneration. Hearing Research, 2007, 227, 3-10.	2.0	37
30	The contribution of TRPC1, TRPC3, TRPC5 and TRPC6 to touch and hearing. Neuroscience Letters, 2016, 610, 36-42.	2.1	34
31	Hair cell maturation is differentially regulated along the tonotopic axis of the mammalian cochlea. Journal of Physiology, 2020, 598, 151-170.	2.9	34
32	The acquisition of mechano-electrical transducer current adaptation in auditory hair cells requires myosin VI. Journal of Physiology, 2016, 594, 3667-3681.	2.9	30
33	TMC2 Modifies Permeation Properties of the Mechanoelectrical Transducer Channel in Early Postnatal Mouse Cochlear Outer Hair Cells. Frontiers in Molecular Neuroscience, 2017, 10, 326.	2.9	29
34	Identification of a series of hair-cell MET channel blockers that protect against aminoglycoside-induced ototoxicity. JCI Insight, 2021, 6, .	5.0	27
35	Identification of ion-channel modulators that protect against aminoglycoside-induced hair cell death. JCI Insight, 2017, 2, .	5.0	26
36	Design, Synthesis, and Biological Evaluation of a New Series of Carvedilol Derivatives That Protect Sensory Hair Cells from Aminoglycoside-Induced Damage by Blocking the Mechanoelectrical Transducer Channel. Journal of Medicinal Chemistry, 2019, 62, 5312-5329.	6.4	22

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37	Insights into the Pore of the Hair Cell Transducer Channel from Experiments with Permeant Blockers. <i>Current Topics in Membranes</i> , 2007, 59, 375-398.	0.9	20
38	Preferential Cochleotoxicity of Cisplatin. <i>Frontiers in Neuroscience</i> , 2021, 15, 695268.	2.8	20
39	Gentamicin Affects the Bioenergetics of Isolated Mitochondria and Collapses the Mitochondrial Membrane Potential in Cochlear Sensory Hair Cells. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 416.	3.7	18
40	Development of Outward Potassium Currents in Inner and Outer Hair Cells from the Embryonic Mouse Cochlea. <i>Audiology and Neuro-Otology</i> , 2005, 10, 22-34.	1.3	17
41	The Development of Hair Cells in the Inner Ear. , 2006, , 20-94.		10
42	Drug-induced hearing loss: Infection raises the odds. <i>Science Translational Medicine</i> , 2015, 7, 298fs31.	12.4	4
43	Impact of sight and hearing loss in patients with Norrie disease: advantages of Dual Sensory clinics in patient care. <i>BMJ Paediatrics Open</i> , 2020, 4, e000781.	1.4	4
44	The paradox of hair cell adaptation. <i>Journal of Physiology</i> , 1998, 506, 1-1.	2.9	3
45	Tuning in to cochlear hair cells. <i>Journal of Physiology</i> , 2006, 576, 7-9.	2.9	2
46	Wake up your ears! ATP sculpts development along the auditory system. <i>Journal of Physiology</i> , 2017, 595, 1019-1020.	2.9	0