Guy Peel Richardson

List of Publications by Year
in descending order

46	3,021	236925 25	254184 43
papers	citations	h-index	g-index

46	46	46	2671
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MET currents and otoacoustic emissions from mice with a detached tectorial membrane indicate the extracellular matrix regulates Ca²⁺ near stereocilia. Journal of Physiology, 2021, 599, 2015-2036.	2.9	13
2	Identification of a series of hair-cell MET channel blockers that protect against aminoglycoside-induced ototoxicity. JCI Insight, 2021, 6, .	5.0	27
3	Ultrastructural defects in stereocilia and tectorial membrane in aging mouse and human cochleae. Journal of Neuroscience Research, 2020, 98, 1745-1763.	2.9	18
4	Genetically modified mouse models to help fight COVID-19. Nature Protocols, 2020, 15, 3777-3787.	12.0	26
5	A comparative analysis of genetic hearing loss phenotypes in European/American and Japanese populations. Human Genetics, 2020, 139, 1315-1323.	3.8	12
6	Ageâ€related changes in the biophysical and morphological characteristics of mouse cochlear outer hair cells. Journal of Physiology, 2020, 598, 3891-3910.	2.9	29
7	Accelerated Age-Related Degradation of the Tectorial Membrane in the Ceacam16Î²gal/Î²gal Null Mutant Mouse, a Model for Late-Onset Human Hereditary Deafness DFNB113. Frontiers in Molecular Neuroscience, 2019, 12, 147.	2.9	10
8	Gentamicin Affects the Bioenergetics of Isolated Mitochondria and Collapses the Mitochondrial Membrane Potential in Cochlear Sensory Hair Cells. Frontiers in Cellular Neuroscience, 2019, 13, 416.	3.7	18
9	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
10	Hair-Bundle Links: Genetics as the Gateway to Function. Cold Spring Harbor Perspectives in Medicine, 2019, 9, a033142.	6.2	49
11	ORC-13661 protects sensory hair cells from aminoglycoside and cisplatin ototoxicity. JCI Insight, 2019, 4, .	5.0	52
12	Structure, Function, and Development of the Tectorial Membrane: An Extracellular Matrix Essential for Hearing. Current Topics in Developmental Biology, 2018, 130, 217-244.	2.2	46
13	FGFR1-mediated protocadherin-15 loading mediates cargo specificity during intraflagellar transport in inner ear hair-cell kinocilia. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8388-8393.	7.1	14
14	Spontaneous Otoacoustic Emissions inTecta^{Y1870C/+}Mice Reflect Changes in Cochlear Amplification and How It Is Controlled by the Tectorial Membrane. ENeuro, 2018, 5, ENEURO.0314-18.2018.	1.9	14
15	Easi-CRISPR: a robust method for one-step generation of mice carrying conditional and insertion alleles using long ssDNA donors and CRISPR ribonucleoproteins. Genome Biology, 2017, 18, 92.	8.8	375
16	Cell-Cell Contact Area Affects Notch Signaling and Notch-Dependent Patterning. Developmental Cell, 2017, 40, 505-511.e6.	7.0	146
17	The temporal expression profile of a Nos3-related natural antisense RNA in the brain suggests a possible role in neurogenesis. Nitric Oxide - Biology and Chemistry, 2017, 71, 27-31.	2.7	1
18	A tectorin-based matrix and planar-cell-polarity genes are required for normal collagen-fibril orientation in the developing tectorial membrane. Development (Cambridge), 2017, 144, 3978-3989.	2.5	35

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19	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
20	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
21	Identification of ion-channel modulators that protect against aminoglycoside-induced hair cell death. JCI Insight, 2017, 2, .	5.0	26
22	The acquisition of mechanoâ€electrical transducer current adaptation in auditory hair cells requires myosin VI. Journal of Physiology, 2016, 594, 3667-3681.	2.9	30
23	Increased Spontaneous Otoacoustic Emissions in Mice with a Detached Tectorial Membrane. JARO - Journal of the Association for Research in Otolaryngology, 2016, 17, 81-88.	1.8	24
24	Examining the role of the tectorial membrane in otoacoustic emission generation. AIP Conference Proceedings, 2015, , .	0.4	0
25	A novel long non-coding natural antisense RNA is a negative regulator of Nos1 gene expression. Scientific Reports, 2015, 5, 11815.	3.3	6
26	The <scp>CD</scp>2 isoform of protocadherinâ€15 is an essential component of the tipâ€link complex in mature auditory hair cells. EMBO Molecular Medicine, 2014, 6, 984-992.	6.9	62
27	Three deaf mice: mouse models for TECTA-based human hereditary deafness reveal domain-specific structural phenotypes in the tectorial membrane. Human Molecular Genetics, 2014, 23, 2551-2568.	2.9	44
28	Porosity Controls Spread of Excitation in Tectorial Membrane Traveling Waves. Biophysical Journal, 2014, 106, 1406-1413.	0.5	33
29	Staurosporineâ€induced collapse of cochlear hair bundles. Journal of Comparative Neurology, 2014, 522, 3281-3294.	1.6	5
30	Loss of the Tectorial Membrane Protein CEACAM16 Enhances Spontaneous, Stimulus-Frequency, and Transiently Evoked Otoacoustic Emissions. Journal of Neuroscience, 2014, 34, 10325-10338.	3.6	61
31	The Brain Prize 2012. Trends in Neurosciences, 2012, 35, 524-526.	8.6	0
32	How the Genetics of Deafness Illuminates Auditory Physiology. Annual Review of Physiology, 2011, 73, 311-334.	13.1	195
33	Carcinoembryonic antigen-related cell adhesion molecule 16 interacts with Î±-tectorin and is mutated in autosomal dominant hearing loss (DFNA4). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4218-4223.	7.1	123
34	Otoancorin Knockout Mice Reveal Inertia is the Force for Hearing. , 2011, , .		0
35	Tectorial membrane travelling waves underlie abnormal hearing in Tectb mutant mice. Nature Communications, 2010, 1, 96.	12.8	79
36	Tectorial Membrane Material Properties in Tecta1870/+ Heterozygous Mice. Biophysical Journal, 2010, 99, 3274-3281.	0.5	18

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37	Multiple roles for the tectorial membrane in the active cochlea. Hearing Research, 2010, 266, 26-35.	2.0	57
38	The tectorial membrane: one slice of a complex cochlear sandwich. Current Opinion in Otolaryngology and Head and Neck Surgery, 2008, 16, 458-464.	1.8	72
39	Sharpened cochlear tuning in a mouse with a genetically modified tectorial membrane. Nature Neuroscience, 2007, 10, 215-223.	14.8	172
40	A deafness mutation isolates a second role for the tectorial membrane in hearing. Nature Neuroscience, 2005, 8, 1035-1042.	14.8	130
41	Extracellular matrices associated with the apical surfaces of sensory epithelia in the inner ear: Molecular and structural diversity. Journal of Neurobiology, 2002, 53, 212-227.	3.6	119
42	Thyroid Hormone-deficient Period Prior to the Onset of Hearing Is Associated with Reduced Levels of Î²-Tectorin Protein in the Tectorial Membrane. Journal of Biological Chemistry, 2001, 276, 39046-39052.	3.4	63
43	A Targeted Deletion in Î±-Tectorin Reveals that the Tectorial Membrane Is Required for the Gain and Timing of Cochlear Feedback. Neuron, 2000, 28, 273-285.	8.1	286
44	Tectorin mRNA expression is spatially and temporally restricted during mouse inner ear development. Journal of Comparative Neurology, 1999, 405, 271-280.	1.6	111
45	The Mouse Tectorins. Journal of Biological Chemistry, 1997, 272, 8791-8801.	3.4	212
46	The ultrastructural organization and properties of the mouse tectorial membrane matrix. Hearing Research, 1988, 35, 21-38.	2.0	117