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	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
2	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
3	The Mouse Tectorins. Journal of Biological Chemistry, 1997, 272, 8791-8801.	3.4	212
4	How the Genetics of Deafness Illuminates Auditory Physiology. Annual Review of Physiology, 2011, 73, 311-334.	13.1	195
5	Sharpened cochlear tuning in a mouse with a genetically modified tectorial membrane. Nature Neuroscience, 2007, 10, 215-223.	14.8	172
6	Cell-Cell Contact Area Affects Notch Signaling and Notch-Dependent Patterning. Developmental Cell, 2017, 40, 505-511.e6.	7.0	146
7	A deafness mutation isolates a second role for the tectorial membrane in hearing. Nature Neuroscience, 2005, 8, 1035-1042.	14.8	130
8	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
9	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
10	The ultrastructural organization and properties of the mouse tectorial membrane matrix. Hearing Research, 1988, 35, 21-38.	2.0	117
11	Tectorin mRNA expression is spatially and temporally restricted during mouse inner ear development. Journal of Comparative Neurology, 1999, 405, 271-280.	1.6	111
12	Tectorial membrane travelling waves underlie abnormal hearing in Tectb mutant mice. Nature Communications, 2010, 1, 96.	12.8	79
13	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
14	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
15	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
16	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
17	Multiple roles for the tectorial membrane in the active cochlea. Hearing Research, 2010, 266, 26-35.	2.0	57
18	ORC-13661 protects sensory hair cells from aminoglycoside and cisplatin ototoxicity. JCI Insight, 2019, 4, .	5.0	52

#	Article	IF	Citations
19	Hair-Bundle Links: Genetics as the Gateway to Function. Cold Spring Harbor Perspectives in Medicine, 2019, 9, a033142.	6.2	49
20	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
21	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
22	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
23	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
24	Porosity Controls Spread of Excitation in Tectorial Membrane Traveling Waves. Biophysical Journal, 2014, 106, 1406-1413.	0.5	33
25	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
26	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
27	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
28	Identification of a series of hair-cell MET channel blockers that protect against aminoglycoside-induced ototoxicity. JCI Insight, 2021, 6, .	5.0	27
29	Genetically modified mouse models to help fight COVID-19. Nature Protocols, 2020, 15, 3777-3787.	12.0	26
30	Identification of ion-channel modulators that protect against aminoglycoside-induced hair cell death. JCI Insight, 2017, 2, .	5.0	26
31	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
32	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
33	Tectorial Membrane Material Properties in Tecta1870/+ Heterozygous Mice. Biophysical Journal, 2010, 99, 3274-3281.	0.5	18
34	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
35	Ultrastructural defects in stereocilia and tectorial membrane in aging mouse and human cochleae. Journal of Neuroscience Research, 2020, 98, 1745-1763.	2.9	18
36	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

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37	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
38	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
39	A comparative analysis of genetic hearing loss phenotypes in European/American and Japanese populations. Human Genetics, 2020, 139, 1315-1323.	3.8	12
40	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
41	A novel long non-coding natural antisense RNA is a negative regulator of Nos1 gene expression. Scientific Reports, 2015, 5, 11815.	3.3	6
42	Staurosporineâ€induced collapse of cochlear hair bundles. Journal of Comparative Neurology, 2014, 522, 3281-3294.	1.6	5
43	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
44	Otoancorin Knockout Mice Reveal Inertia is the Force for Hearing. , 2011, , .		0
45	The Brain Prize 2012. Trends in Neurosciences, 2012, 35, 524-526.	8.6	0
46	Examining the role of the tectorial membrane in otoacoustic emission generation. AIP Conference Proceedings, 2015, , .	0.4	0