

Peter G Gillespie

List of Publications by Year in descending order

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109
papers

8,495
citations

61687

45
h-index

53065

89
g-index

117
all docs

117
docs citations

117
times ranked

6281
citing authors

#	ARTICLE	IF	CITATIONS
1	Ca ²⁺ entry through mechanotransduction channels localizes BAIAP2L2 to stereocilia tips. <i>Molecular Biology of the Cell</i> , 2022, 33, mbcE21100491.	0.9	6
2	ANKRD24 organizes TRIOBP to reinforce stereocilia insertion points. <i>Journal of Cell Biology</i> , 2022, 221, .	2.3	7
3	Loss of <i>Baiap2l2</i> destabilizes the transducing stereocilia of cochlear hair cells and leads to deafness. <i>Journal of Physiology</i> , 2021, 599, 1173-1198.	1.3	28
4	Cy3-ATP labeling of unfixed, permeabilized mouse hair cells. <i>Scientific Reports</i> , 2021, 11, 23855.	1.6	1
5	Mechanotransduction-Dependent Control of Stereocilia Dimensions and Row Identity in Inner Hair Cells. <i>Current Biology</i> , 2020, 30, 442-454.e7.	1.8	50
6	Stereocilia Rootlets: Actin-Based Structures That Are Essential for Structural Stability of the Hair Bundle. <i>International Journal of Molecular Sciences</i> , 2020, 21, 324.	1.8	24
7	A cryo-tomography-based volumetric model of the actin core of mouse vestibular hair cell stereocilia lacking plastin 1. <i>Journal of Structural Biology</i> , 2020, 210, 107461.	1.3	14
8	Molecular Composition of Vestibular Hair Bundles. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2019, 9, a033209.	2.9	15
9	Electron cryo-tomography of vestibular hair-cell stereocilia. <i>Journal of Structural Biology</i> , 2019, 206, 149-155.	1.3	16
10	Single-cell proteomics reveals changes in expression during hair-cell development. <i>ELife</i> , 2019, 8, .	2.8	80
11	ELMOD1 Stimulates ARF6-GTP Hydrolysis to Stabilize Apical Structures in Developing Vestibular Hair Cells. <i>Journal of Neuroscience</i> , 2018, 38, 843-857.	1.7	16
12	TRPV6, TRPM6 and TRPM7 Do Not Contribute to Hair-Cell Mechanotransduction. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 41.	1.8	6
13	Honing In on TMC as the Hair Cell's Transduction Channel. <i>Neuron</i> , 2018, 99, 628-629.	3.8	4
14	Transcriptional Dynamics of Hair-Bundle Morphogenesis Revealed with CellTrails. <i>Cell Reports</i> , 2018, 23, 2901-2914.e13.	2.9	40
15	Mass spectrometry quantitation of proteins from small pools of developing auditory and vestibular cells. <i>Scientific Data</i> , 2018, 5, 180128.	2.4	16
16	Analysis of the Proteome of Hair-Cell Stereocilia by Mass Spectrometry. <i>Methods in Enzymology</i> , 2017, 585, 329-354.	0.4	6
17	Heterodimeric capping protein is required for stereocilia length and width regulation. <i>Journal of Cell Biology</i> , 2017, 216, 3861-3881.	2.3	48
18	A Model for Link Pruning to Establish Correctly Polarized and Oriented Tip Links in Hair Bundles. <i>Biophysical Journal</i> , 2017, 113, 1868-1881.	0.2	3

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19	Integration of Tmc1/2 into the mechanotransduction complex in zebrafish hair cells is regulated by Transmembrane O-methyltransferase (Tomt). <i>ELife</i> , 2017, 6, .	2.8	67
20	Annexin A5 is the Most Abundant Membrane-Associated Protein in Stereocilia but is Dispensable for Hair-Bundle Development and Function. <i>Scientific Reports</i> , 2016, 6, 27221.	1.6	28
21	Neuroplastin Isoform Np55 Is Expressed in the Stereocilia of Outer Hair Cells and Required for Normal Outer Hair Cell Function. <i>Journal of Neuroscience</i> , 2016, 36, 9201-9216.	1.7	26
22	Plastin 1 widens stereocilia by transforming actin filament packing from hexagonal to liquid. <i>Journal of Cell Biology</i> , 2016, 215, 467-482.	2.3	54
23	Stereocilia-staircase spacing is influenced by myosin III motors and their cargos espin-1 and espin-like. <i>Nature Communications</i> , 2016, 7, 10833.	5.8	72
24	Reverse transduction measured in the living cochlea by low-coherence heterodyne interferometry. <i>Nature Communications</i> , 2016, 7, 10282.	5.8	41
25	PDZD7-MYO7A complex identified in enriched stereocilia membranes. <i>ELife</i> , 2016, 5, .	2.8	40
26	Hair-bundle proteomes of avian and mammalian inner-ear utricles. <i>Scientific Data</i> , 2015, 2, 150074.	2.4	14
27	The proteome of mouse vestibular hair bundles over development. <i>Scientific Data</i> , 2015, 2, 150047.	2.4	38
28	A Short Splice Form of Xin-Actin Binding Repeat Containing 2 (XIRP2) Lacking the Xin Repeats Is Required for Maintenance of Stereocilia Morphology and Hearing Function. <i>Journal of Neuroscience</i> , 2015, 35, 1999-2014.	1.7	38
29	New treatment options for hearing loss. <i>Nature Reviews Drug Discovery</i> , 2015, 14, 346-365.	21.5	151
30	Correlation of Actin Crosslinker and Capper Expression Levels with Stereocilia Growth Phases. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 606-620.	2.5	26
31	Tip-link protein protocadherin 15 interacts with transmembrane channel-like proteins TMC1 and TMC2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12907-12912.	3.3	168
32	Accurate Label-Free Protein Quantitation with High- and Low-Resolution Mass Spectrometers. <i>Journal of Proteome Research</i> , 2014, 13, 1034-1044.	1.8	135
33	The Local Forces Acting on the Mechanotransduction Channel in Hair Cell Stereocilia. <i>Biophysical Journal</i> , 2014, 106, 2519-2528.	0.2	24
34	Mechanotransduction: The Elusive Hair Cell Transduction Channel Revealed?. <i>Current Biology</i> , 2013, 23, R887-R890.	1.8	8
35	Molecular architecture of the chick vestibular hair bundle. <i>Nature Neuroscience</i> , 2013, 16, 365-374.	7.1	166
36	Molecular Remodeling of Tip Links Underlies Mechanosensory Regeneration in Auditory Hair Cells. <i>PLoS Biology</i> , 2013, 11, e1001583.	2.6	113

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37	Who needs tip links? Backwards transduction by hair cells. <i>Journal of General Physiology</i> , 2013, 142, 481-486.	0.9	8
38	Digenic inheritance of deafness caused by 8J allele of myosin-VIIA and mutations in other Usher I genes. <i>Human Molecular Genetics</i> , 2012, 21, 2588-2598.	1.4	25
39	Localization of PDZD7 to the Stereocilia Ankle-Link Associates this Scaffolding Protein with the Usher Syndrome Protein Network. <i>Journal of Neuroscience</i> , 2012, 32, 14288-14293.	1.7	61
40	Large Membrane Domains in Hair Bundles Specify Spatially Constricted Radixin Activation. <i>Journal of Neuroscience</i> , 2012, 32, 4600-4609.	1.7	47
41	Distinct energy metabolism of auditory and vestibular sensory epithelia revealed by quantitative mass spectrometry using MS2 intensity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E268-77.	3.3	32
42	Stereocilia Membrane Deformation: Implications for the Gating Spring and Mechanotransduction Channel. <i>Biophysical Journal</i> , 2012, 102, 201-210.	0.2	55
43	Probing the Cochlear Amplifier by Immobilizing Molecular Motors of Sensory Hair Cells. <i>Neuron</i> , 2012, 76, 868-870.	3.8	1
44	Molecular Biology of Hearing and Balance. , 2012, , 916-927.		0
45	Improved Biolistic Transfection of Hair Cells. <i>PLoS ONE</i> , 2012, 7, e46765.	1.1	14
46	Monitoring Intracellular Calcium Ion Dynamics in Hair Cell Populations with Fluo-4 AM. <i>PLoS ONE</i> , 2012, 7, e51874.	1.1	39
47	Measurement of cochlear power gain in the sensitive gerbil ear. <i>Nature Communications</i> , 2011, 2, 216.	5.8	54
48	Loss-of-Function Mutations of ILDR1 Cause Autosomal-Recessive Hearing Impairment DFNB42. <i>American Journal of Human Genetics</i> , 2011, 88, 127-137.	2.6	108
49	Reply to "On Cochlear Impedances and the Miscomputation of Power Gain" by Shera et al. <i>J. Assoc. Re. Otolaryngol.. JARO - Journal of the Association for Research in Otolaryngology</i> , 2011, 12, 677-680.	0.9	0
50	Myosin 1c Participates in B Cell Cytoskeleton Rearrangements, Is Recruited to the Immunologic Synapse, and Contributes to Antigen Presentation. <i>Journal of Immunology</i> , 2011, 187, 3053-3063.	0.4	43
51	Na ⁺ /K ⁺ -ATPase $\hat{=}1$ Identified as an Abundant Protein in the Blood-Labyrinth Barrier That Plays an Essential Role in the Barrier Integrity. <i>PLoS ONE</i> , 2011, 6, e16547.	1.1	59
52	The R109H Variant of Fascin-2, a Developmentally Regulated Actin Crosslinker in Hair-Cell Stereocilia, Underlies Early-Onset Hearing Loss of DBA/2J Mice. <i>Journal of Neuroscience</i> , 2010, 30, 9683-9694.	1.7	107
53	Unraveling cadherin 23's role in development and mechanotransduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4959-4960.	3.3	4
54	Bottoms up: transduction channels at tip link bases. <i>Nature Neuroscience</i> , 2009, 12, 529-530.	7.1	8

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55	Mechanotransduction by Hair Cells: Models, Molecules, and Mechanisms. <i>Cell</i> , 2009, 139, 33-44.	13.5	365
56	Harmonin Mutations Cause Mechanotransduction Defects in Cochlear Hair Cells. <i>Neuron</i> , 2009, 62, 375-387.	3.8	149
57	Twist-Off Purification of Hair Bundles. <i>Methods in Molecular Biology</i> , 2009, 493, 241-255.	0.4	7
58	Silencing the Cochlear Amplifier by Immobilizing Prestin. <i>Neuron</i> , 2008, 58, 299-301.	3.8	5
59	Hair Bundles Are Specialized for ATP Delivery via Creatine Kinase. <i>Neuron</i> , 2007, 53, 371-386.	3.8	114
60	The Enteropathogenic <i>E. coli</i> Effector EspB Facilitates Microvillus Effacing and Antiphagocytosis by Inhibiting Myosin Function. <i>Cell Host and Microbe</i> , 2007, 2, 383-392.	5.1	88
61	Apical phosphatidylserine externalization in auditory hair cells. <i>Molecular Membrane Biology</i> , 2007, 24, 16-27.	2.0	10
62	Hair bundles: keeping it together. <i>Nature Neuroscience</i> , 2007, 10, 11-12.	7.1	4
63	A mechanism for active hearing. <i>Current Opinion in Neurobiology</i> , 2007, 17, 498-503.	2.0	21
64	Chemical-Genetic Inhibition of Sensitized Mutant Unconventional Myosins. <i>Methods in Molecular Biology</i> , 2007, 392, 231-240.	0.4	1
65	Physical and Functional Interaction between Protocadherin 15 and Myosin VIIa in Mechanosensory Hair Cells. <i>Journal of Neuroscience</i> , 2006, 26, 2060-2071.	1.7	158
66	Differential localization of unconventional myosin I and nonmuscle myosin II during B cell spreading. <i>Experimental Cell Research</i> , 2006, 312, 3312-3322.	1.2	7
67	Splice-Site A Choice Targets Plasma-Membrane Ca ²⁺ -ATPase Isoform 2 to Hair Bundles. <i>Journal of Neuroscience</i> , 2006, 26, 6172-6180.	1.7	75
68	Vestibular Hair Bundles Control pH with (Na ⁺ , K ⁺)/H ⁺ Exchangers NHE6 and NHE9. <i>Journal of Neuroscience</i> , 2006, 26, 9944-9955.	1.7	52
69	The Chloride Intracellular Channel Protein CLIC5 Is Expressed at High Levels in Hair Cell Stereocilia and Is Essential for Normal Inner Ear Function. <i>Journal of Neuroscience</i> , 2006, 26, 10188-10198.	1.7	102
70	Metazoan mechanotransduction mystery finally solved. <i>Nature Neuroscience</i> , 2005, 8, 7-8.	7.1	7
71	Have we found the tip link, transduction channel, and gating spring of the hair cell?. <i>Current Opinion in Neurobiology</i> , 2005, 15, 389-396.	2.0	59
72	Na ⁺ influx triggers bleb formation on inner hair cells. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C1332-C1341.	2.1	41

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73	Xenopus TRPN1 (NOMPC) localizes to microtubule-based cilia in epithelial cells, including inner-ear hair cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12572-12577.	3.3	92
74	Fast Adaptation in Vestibular Hair Cells Requires Myosin-1c Activity. <i>Neuron</i> , 2005, 47, 541-553.	3.8	142
75	Hair-Cell Mechanotransduction and Cochlear Amplification. <i>Neuron</i> , 2005, 48, 403-415.	3.8	199
76	Myosin I and adaptation of mechanical transduction by the inner ear. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 1945-1951.	1.8	24
77	Chemical-genetic inhibition of a sensitized mutant myosin Vb demonstrates a role in peripheral-pericentriolar membrane traffic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1868-1873.	3.3	39
78	Cadherin 23 is a component of the tip link in hair-cell stereocilia. <i>Nature</i> , 2004, 428, 950-955.	13.7	492
79	Myosin-1c, the Hair Cell's Adaptation Motor. <i>Annual Review of Physiology</i> , 2004, 66, 521-545.	5.6	152
80	Hair Cells Require Phosphatidylinositol 4,5-Bisphosphate for Mechanical Transduction and Adaptation. <i>Neuron</i> , 2004, 44, 309-320.	3.8	159
81	Seeing Touch: Moving Closer to the Worm Mechanotransduction Complex. <i>Current Biology</i> , 2003, 13, R967-R969.	1.8	1
82	Hearing aid. <i>Nature</i> , 2003, 424, 28-29.	13.7	15
83	Fast adaptation in the mammalian cochlea: a conserved mechanism for cochlear amplification. <i>Nature Neuroscience</i> , 2003, 6, 790-791.	7.1	2
84	Developmental Assembly of Transduction Apparatus in Chick Basilar Papilla. <i>Journal of Neuroscience</i> , 2003, 23, 10815-10826.	1.7	47
85	A Chemical-Genetic Strategy Implicates Myosin-1c in Adaptation by Hair Cells. <i>Cell</i> , 2002, 108, 371-381.	13.5	318
86	Myosin-1c Interacts with Hair-Cell Receptors through Its Calmodulin-Binding IQ Domains. <i>Journal of Neuroscience</i> , 2002, 22, 2487-2495.	1.7	73
87	The hair cell's transduction channel. <i>Current Opinion in Neurobiology</i> , 2002, 12, 380-386.	2.0	45
88	Myosin-I Isozymes in Neonatal Rodent Auditory and Vestibular Epithelia. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2002, 3, 375-389.	0.9	66
89	Decreased insulin binding to mononuclear leucocytes and erythrocytes from dogs after S-nitroso-N-acetylcysteine administration. <i>BMC Biochemistry</i> , 2002, 3, 1.	4.4	15
90	Calmodulin binding to recombinant myosin-1c and myosin-1c IQ peptides. <i>BMC Biochemistry</i> , 2002, 3, 31.	4.4	34

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91	Myosin-VIIa and transduction channel tension. <i>Nature Neuroscience</i> , 2002, 5, 3-4.	7.1	19
92	Plasma Membrane Ca ²⁺ -ATPase Isoform 2a Is the PMCA of Hair Bundles. <i>Journal of Neuroscience</i> , 2001, 21, 5066-5078.	1.7	202
93	Molecular basis of mechanosensory transduction. <i>Nature</i> , 2001, 413, 194-202.	13.7	621
94	Myosin-I nomenclature. <i>Journal of Cell Biology</i> , 2001, 155, 703-704.	2.3	71
95	High-resolution structure of hair-cell tip links. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 13336-13341.	3.3	276
96	Engineering of the Myosin- II^2 Nucleotide-binding Pocket to Create Selective Sensitivity to N 6-modified ADP Analogs. <i>Journal of Biological Chemistry</i> , 1999, 274, 31373-31381.	1.6	68
97	Localization of Myosin- II^2 near Both Ends of Tip Links in Frog Sacculus Hair Cells. <i>Journal of Neuroscience</i> , 1998, 18, 8637-8647.	1.7	92
98	Myosin II^2 Is Located at Tip Link Anchors in Vestibular Hair Bundles. <i>Journal of Neuroscience</i> , 1998, 18, 4603-4615.	1.7	65
99	Plasma Membrane Ca ²⁺ -ATPase Extrudes Ca ²⁺ from Hair Cell Stereocilia. <i>Journal of Neuroscience</i> , 1998, 18, 610-624.	1.7	212
100	Unconventional Myosins in Inner-Ear Sensory Epithelia. <i>Journal of Cell Biology</i> , 1997, 137, 1287-1307.	2.3	522
101	Myosin and Adaptation by Hair Cells. <i>Neuron</i> , 1997, 19, 955-958.	3.8	113
102	Improved Electrophoresis and Transfer of Picogram Amounts of Protein with Hemoglobin. <i>Analytical Biochemistry</i> , 1997, 246, 239-245.	1.1	21
103	Phosphate Analogs Block Adaptation in Hair Cells by Inhibiting Adaptation-Motor Force Production. <i>Neuron</i> , 1996, 17, 523-533.	3.8	54
104	Regeneration of broken tip links and restoration of mechanical transduction in hair cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 15469-15474.	3.3	199
105	Feeling force: mechanical transduction by vertebrates and invertebrates. <i>Chemistry and Biology</i> , 1996, 3, 223-227.	6.2	2
106	Deaf and dizzy mice with mutated myosin motors. <i>Nature Medicine</i> , 1996, 2, 27-29.	15.2	4
107	Molecular machinery of auditory and vestibular transduction. <i>Current Opinion in Neurobiology</i> , 1995, 5, 449-455.	2.0	43
108	Pulling springs to tune transduction: Adaptation by hair cells. <i>Neuron</i> , 1994, 12, 1-9.	3.8	322

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109	Identification of a 120 kd hair-bundle myosin located near stereociliary tips. Neuron, 1993, 11, 581-594.	3.8	145