

# Peter G Barr-Gillespie

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11202053/publications.pdf>

Version: 2024-02-01

33  
papers

1,399  
citations

394421

19  
h-index

395702

33  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1677  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tip-link protein protocadherin 15 interacts with transmembrane channel-like proteins TMC1 and TMC2. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12907-12912.	7.1	168
2	Molecular architecture of the chick vestibular hair bundle. Nature Neuroscience, 2013, 16, 365-374.	14.8	166
3	Accurate Label-Free Protein Quantitation with High- and Low-Resolution Mass Spectrometers. Journal of Proteome Research, 2014, 13, 1034-1044.	3.7	135
4	Molecular Remodeling of Tip Links Underlies Mechanosensory Regeneration in Auditory Hair Cells. PLoS Biology, 2013, 11, e1001583.	5.6	113
5	Single-cell proteomics reveals changes in expression during hair-cell development. ELife, 2019, 8, .	6.0	80
6	Stereocilia-staircase spacing is influenced by myosin III motors and their cargos espin-1 and espin-like. Nature Communications, 2016, 7, 10833.	12.8	72
7	Integration of Tmc1/2 into the mechanotransduction complex in zebrafish hair cells is regulated by Transmembrane O-methyltransferase (Tomt). ELife, 2017, 6, .	6.0	67
8	Plastin 1 widens stereocilia by transforming actin filament packing from hexagonal to liquid. Journal of Cell Biology, 2016, 215, 467-482.	5.2	54
9	Mechanotransduction-Dependent Control of Stereocilia Dimensions and Row Identity in Inner Hair Cells. Current Biology, 2020, 30, 442-454.e7.	3.9	50
10	Heterodimeric capping protein is required for stereocilia length and width regulation. Journal of Cell Biology, 2017, 216, 3861-3881.	5.2	48
11	Transcriptional Dynamics of Hair-Bundle Morphogenesis Revealed with CellTrails. Cell Reports, 2018, 23, 2901-2914.e13.	6.4	40
12	PDZD7-MYO7A complex identified in enriched stereocilia membranes. ELife, 2016, 5, .	6.0	40
13	The proteome of mouse vestibular hair bundles over development. Scientific Data, 2015, 2, 150047.	5.3	38
14	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. Journal of Neuroscience, 2015, 35, 1999-2014.	3.6	38
15	Annexin A5 is the Most Abundant Membrane-Associated Protein in Stereocilia but is Dispensable for Hair-Bundle Development and Function. Scientific Reports, 2016, 6, 27221.	3.3	28
16	Loss of <i>Baiap2l2</i> destabilizes the transducing stereocilia of cochlear hair cells and leads to deafness. Journal of Physiology, 2021, 599, 1173-1198.	2.9	28
17	Correlation of Actin Crosslinker and Capper Expression Levels with Stereocilia Growth Phases. Molecular and Cellular Proteomics, 2014, 13, 606-620.	3.8	26
18	Neuroplastin Isoform Np55 Is Expressed in the Stereocilia of Outer Hair Cells and Required for Normal Outer Hair Cell Function. Journal of Neuroscience, 2016, 36, 9201-9216.	3.6	26

#	ARTICLE	IF	CITATIONS
19	The Local Forces Acting on the Mechanotransduction Channel in Hair Cell Stereocilia. <i>Biophysical Journal</i> , 2014, 106, 2519-2528.	0.5	24
20	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.	4.1	24
21	ELMOD1 Stimulates ARF6-GTP Hydrolysis to Stabilize Apical Structures in Developing Vestibular Hair Cells. <i>Journal of Neuroscience</i> , 2018, 38, 843-857.	3.6	16
22	Electron cryo-tomography of vestibular hair-cell stereocilia. <i>Journal of Structural Biology</i> , 2019, 206, 149-155.	2.8	16
23	Mass spectrometry quantitation of proteins from small pools of developing auditory and vestibular cells. <i>Scientific Data</i> , 2018, 5, 180128.	5.3	16
24	Molecular Composition of Vestibular Hair Bundles. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2019, 9, a033209.	6.2	15
25	Hair-bundle proteomes of avian and mammalian inner-ear utricles. <i>Scientific Data</i> , 2015, 2, 150074.	5.3	14
26	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.	2.8	14
27	Mechanotransduction: The Elusive Hair Cell Transduction Channel Revealed?. <i>Current Biology</i> , 2013, 23, R887-R890.	3.9	8
28	Who needs tip links? Backwards transduction by hair cells. <i>Journal of General Physiology</i> , 2013, 142, 481-486.	1.9	8
29	ANKRD24 organizes TRIOBP to reinforce stereocilia insertion points. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	7
30	TRPV6, TRPM6 and TRPM7 Do Not Contribute to Hair-Cell Mechanotransduction. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 41.	3.7	6
31	Ca <sup>2+</sup> entry through mechanotransduction channels localizes BAIAP2L2 to stereocilia tips. <i>Molecular Biology of the Cell</i> , 2022, 33, mbcE21100491.	2.1	6
32	A Model for Link Pruning to Establish Correctly Polarized and Oriented Tip Links in Hair Bundles. <i>Biophysical Journal</i> , 2017, 113, 1868-1881.	0.5	3
33	Cy3-ATP labeling of unfixed, permeabilized mouse hair cells. <i>Scientific Reports</i> , 2021, 11, 23855.	3.3	1