

The 133-kDa N-terminal domain enables myosin 15 to move stereocilia and is essential for hearing

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Citation Report

#	ARTICLE	IF	CITATIONS
1	MYO3A Causes Human Dominant Deafness and Interacts with Protocadherin 15-CD2 Isoform. Human Mutation, 2016, 37, 481-487.	2.5	27
2	Mutational Spectrum of <i>MYO15A</i> and the Molecular Mechanisms of DFNB3 Human Deafness. Human Mutation, 2016, 37, 991-1003.	2.5	67
3	Myosins: Domain Organisation, Motor Properties, Physiological Roles and Cellular Functions. Handbook of Experimental Pharmacology, 2016, 235, 77-122.	1.8	50
4	Alternative Splice Forms Influence Functions of Whirlin in Mechanosensory Hair Cell Stereocilia. Cell Reports, 2016, 15, 935-943.	6.4	33
5	Pejvakin, a Candidate Stereociliary Rootlet Protein, Regulates Hair Cell Function in a Cell-Autonomous Manner. Journal of Neuroscience, 2017, 37, 3447-3464.	3.6	31
6	Defective Gpsm2/Gi13 signalling disrupts stereocilia development and growth cone actin dynamics in Chudley-McCullough syndrome. Nature Communications, 2017, 8, 14907.	12.8	69
7	Myosin 7 and its adaptors link cadherins to actin. Nature Communications, 2017, 8, 15864.	12.8	49
8	CIB2 interacts with TMC1 and TMC2 and is essential for mechanotransduction in auditory hair cells. Nature Communications, 2017, 8, 43.	12.8	121
9	MyTH4-FERM myosins in the assembly and maintenance of actin-based protrusions. Current Opinion in Cell Biology, 2017, 44, 68-78.	5.4	33
10	Stereocilia morphogenesis and maintenance through regulation of actin stability. Seminars in Cell and Developmental Biology, 2017, 65, 88-95.	5.0	58
11	Myosin-Driven Intracellular Transport. Cold Spring Harbor Perspectives in Biology, 2018, 10, a021972.	5.5	72
12	Expansion of phenotypic spectrum of MYO15A pathogenic variants to include postlingual onset of progressive partial deafness. BMC Medical Genetics, 2018, 19, 29.	2.1	23
13	Genetics of hearing loss in the Arab population of Northern Israel. European Journal of Human Genetics, 2018, 26, 1840-1847.	2.8	21
14	GPSM2-GNAI Specifies the Tallest Stereocilia and Defines Hair Bundle Row Identity. Current Biology, 2019, 29, 921-934.e4.	3.9	55
15	Genotype-phenotype correlation analysis of MYO15A variants in autosomal recessive non-syndromic hearing loss. BMC Medical Genetics, 2019, 20, 60.	2.1	37
16	Building and repairing the stereocilia cytoskeleton in mammalian auditory hair cells. Hearing Research, 2019, 376, 47-57.	2.0	33
17	Novel mutations in MYTH4-FERM domains of myosin 15 are associated with autosomal recessive nonsyndromic hearing loss. International Journal of Pediatric Otorhinolaryngology, 2019, 117, 115-126.	1.0	9
18	Mechanotransduction-Dependent Control of Stereocilia Dimensions and Row Identity in Inner Hair Cells. Current Biology, 2020, 30, 442-454.e7.	3.9	50

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19	Myosin-XVa Controls Both Staircase Architecture and Diameter Gradation of Stereocilia Rows in the Auditory Hair Cell Bundles. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2020, 21, 121-135.	1.8	12
20	Whole exome sequencing identifies novel compound heterozygous pathogenic variants in the MYO15A gene leading to autosomal recessive non-syndromic hearing loss. <i>Molecular Biology Reports</i> , 2020, 47, 5355-5364.	2.3	8
21	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
22	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.	2.9	28
23	The ATPase mechanism of myosin 15, the molecular motor mutated in DFNB3 human deafness. <i>Journal of Biological Chemistry</i> , 2021, 296, 100243.	3.4	12
24	Functional Role of Class III Myosins in Hair Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 643856.	3.7	13
25	The many roles of myosins in filopodia, microvilli and stereocilia. <i>Current Biology</i> , 2021, 31, R586-R602.	3.9	41
26	Heterogeneity of MYO15A variants significantly determine the feasibility of acoustic stimulation with hearing aid and cochlear implant. <i>Hearing Research</i> , 2021, 404, 108227.	2.0	1
27	Propagation of F-actin disassembly via Myosin15-Mical interactions. <i>Science Advances</i> , 2021, 7, .	10.3	20
30	BAIAP2L2 is required for the maintenance of mechanotransducing stereocilia of cochlear hair cells. <i>Journal of Cellular Physiology</i> , 2021, , .	4.1	9
31	Inner hair cell dysfunction in <i>Klhl18</i> mutant mice leads to low frequency progressive hearing loss. <i>PLoS ONE</i> , 2021, 16, e0258158.	2.5	6
32	Myosins and Disease. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1239, 245-316.	1.6	16
33	Myosins and Hearing. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1239, 317-330.	1.6	24
34	Inhibition of a transcriptional repressor rescues hearing in a splicing factor-deficient mouse. <i>Life Science Alliance</i> , 2020, 3, e202000841.	2.8	13
35	Mechanotransduction current is essential for stability of the transducing stereocilia in mammalian auditory hair cells. <i>ELife</i> , 2017, 6, .	6.0	79
36	Review of Post-embedding Immunogold Methods for the Study of Neuronal Structures. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 763427.	1.7	4
37	Electron Microscopy Techniques for Investigating Structure and Composition of Hair-Cell Stereociliary Bundles. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 744248.	3.7	13
38	It takes two. <i>ELife</i> , 2015, 4, .	6.0	0

#	ARTICLE	IF	CITATIONS
43	Myosin XVA: dancing at the tips of the stereocilia. <i>Journal of Bio-X Research</i> , 2020, 3, 60-65.	0.2	1
44	Ca ²⁺ entry through mechanotransduction channels localizes BAIAP2L2 to stereocilia tips. <i>Molecular Biology of the Cell</i> , 2022, 33, mbcE21100491.	2.1	6
45	Analysis of the genotype-phenotype correlation of MYO15A variants in Chinese non-syndromic hearing loss patients. <i>BMC Medical Genomics</i> , 2022, 15, 71.	1.5	0
46	Hearing Features and Cochlear Implantation Outcomes in Patients With Pathogenic MYO15A Variants. <i>Ear and Hearing</i> , 2021, Publish Ahead of Print, .	2.1	1
47	BAIAP2L2 Inactivation Does Not Affect Stereocilia Development or Maintenance in Vestibular Hair Cells. <i>Frontiers in Molecular Neuroscience</i> , 2022, 15, 829204.	2.9	3
48	Espin overexpression causes stereocilia defects and provides an anti-capping effect on actin polymerization. <i>Cytoskeleton</i> , 2022, 79, 64-74.	2.0	4
49	Structural basis for tunable control of actin dynamics by myosin-15 in mechanosensory stereocilia. <i>Science Advances</i> , 2022, 8, .	10.3	25
50	Identification of novel compound heterozygous mutations of the <i>MYO15A</i> gene with autosomal recessive non-syndromic hearing loss. <i>Journal of Clinical Laboratory Analysis</i> , 0, .	2.1	0
51	FCHSD2 is required for stereocilia maintenance in mouse cochlear hair cells. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	0
52	Selective binding and transport of protocadherin 15 isoforms by stereocilia unconventional myosins in a heterologous expression system. <i>Scientific Reports</i> , 2022, 12, .	3.3	0
53	AAV-mediated rescue of <i>Eps8</i> expression in vivo restores hair-cell function in a mouse model of recessive deafness. <i>Molecular Therapy - Methods and Clinical Development</i> , 2022, 26, 355-370.	4.1	4
54	Sensing sound: Cellular specializations and molecular force sensors. <i>Neuron</i> , 2022, 110, 3667-3687.	8.1	19
55	The morphological and functional diversity of apical microvilli. <i>Journal of Anatomy</i> , 2023, 242, 327-353.	1.5	10
56	Myosin motors in sensory hair bundle assembly. <i>Current Opinion in Cell Biology</i> , 2022, 79, 102132.	5.4	8
57	Mechanoelectrical transduction-related genetic forms of hearing loss. <i>Current Opinion in Physiology</i> , 2023, 32, 100632.	1.8	2
59	CIB2 and CIB3 regulate stereocilia maintenance and mechanoelectrical transduction in mouse vestibular hair cells. <i>Journal of Neuroscience</i> , 0, , JN-RM-1807-22.	3.6	3
60	The actin cytoskeleton in hair bundle development and hearing loss. <i>Hearing Research</i> , 2023, 436, 108817.	2.0	5
61	Loss-of-function mutations in MYO15A and OTOF cause non-syndromic hearing loss in two Yemeni families. <i>Human Genomics</i> , 2023, 17, .	2.9	1

#	ARTICLE	IF	CITATIONS
63	Myosin XV is a negative regulator of signaling filopodia during long-range lateral inhibition. <i>Developmental Biology</i> , 2024, 505, 110-121.	2.0	0
64	The dynamics of actin protrusions can be controlled by tip localized myosin motors. <i>Journal of Biological Chemistry</i> , 2023, , 105516.	3.4	0
65	Characterizing the Molecular Mechanism of the Lethal C423D Mutation in FgMyoI: A Molecular Perspective. <i>Journal of Agricultural and Food Chemistry</i> , 2024, 72, 1539-1549.	5.2	0
66	Comparative exploration of mammalian deafness gene homologues in the <i>Drosophila</i> auditory organ shows genetic correlation between insect and vertebrate hearing. <i>PLoS ONE</i> , 2024, 19, e0297846.	2.5	0
67	Pathophysiology of human hearing loss associated with variants in myosins. <i>Frontiers in Physiology</i> , 0, 15, .	2.8	0