

# Marlies Knipper

## List of Publications by Year in descending order

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102  
papers

5,002  
citations

61984

43  
h-index

98798

67  
g-index

103  
all docs

103  
docs citations

103  
times ranked

4210  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in the neurobiology of hearing disorders: Recent developments regarding the basis of tinnitus and hyperacusis. <i>Progress in Neurobiology</i> , 2013, 111, 17-33.	5.7	267
2	A splice site mutation in the murine <i>Opa1</i> gene features pathology of autosomal dominant optic atrophy. <i>Brain</i> , 2006, 130, 1029-1042.	7.6	232
3	Thyroid Hormone Deficiency Before the Onset of Hearing Causes Irreversible Damage to Peripheral and Central Auditory Systems. <i>Journal of Neurophysiology</i> , 2000, 83, 3101-3112.	1.8	179
4	Deletion of the Ca <sup>2+</sup> -activated potassium (BK) $\beta$ -subunit but not the BK $\beta$ 1-subunit leads to progressive hearing loss. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12922-12927.	7.1	173
5	Developmental Regulation of Nicotinic Synapses on Cochlear Inner Hair Cells. <i>Journal of Neuroscience</i> , 2004, 24, 7814-7820.	3.6	156
6	Position-dependent patterning of spontaneous action potentials in immature cochlear inner hair cells. <i>Nature Neuroscience</i> , 2011, 14, 711-717.	14.8	147
7	The Reduced Cochlear Output and the Failure to Adapt the Central Auditory Response Causes Tinnitus in Noise Exposed Rats. <i>PLoS ONE</i> , 2013, 8, e57247.	2.5	139
8	Resting Potential and Submembrane Calcium Concentration of Inner Hair Cells in the Isolated Mouse Cochlea Are Set by KCNQ-Type Potassium Channels. <i>Journal of Neuroscience</i> , 2003, 23, 2141-2149.	3.6	132
9	Noise-Induced Inner Hair Cell Ribbon Loss Disturbs Central Arc Mobilization: A Novel Molecular Paradigm for Understanding Tinnitus. <i>Molecular Neurobiology</i> , 2013, 47, 261-279.	4.0	129
10	Lack of <i>Bdnf</i> and <i>TrkB</i> signalling in the postnatal cochlea leads to a spatial reshaping of innervation along the tonotopic axis and hearing loss. <i>Development (Cambridge)</i> , 2003, 130, 4741-4750.	2.5	120
11	Tonotopic Variation in the Calcium Dependence of Neurotransmitter Release and Vesicle Pool Replenishment at Mammalian Auditory Ribbon Synapses. <i>Journal of Neuroscience</i> , 2008, 28, 7670-7678.	3.6	115
12	A behavioral paradigm to judge acute sodium salicylate-induced sound experience in rats: a new approach for an animal model on tinnitus. <i>Hearing Research</i> , 2003, 180, 39-50.	2.0	114
13	Thyroid hormone is a critical determinant for the regulation of the cochlear motor protein prestin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2901-2906.	7.1	107
14	<i>Eps8</i> Regulates Hair Bundle Length and Functional Maturation of Mammalian Auditory Hair Cells. <i>PLoS Biology</i> , 2011, 9, e1001048.	5.6	107
15	Synaptotagmin IV determines the linear Ca <sup>2+</sup> dependence of vesicle fusion at auditory ribbon synapses. <i>Nature Neuroscience</i> , 2010, 13, 45-52.	14.8	106
16	Loss of auditory sensitivity from inner hair cell synaptopathy can be centrally compensated in the young but not old brain. <i>Neurobiology of Aging</i> , 2016, 44, 173-184.	3.1	104
17	Otoferlin interacts with myosin VI: implications for maintenance of the basolateral synaptic structure of the inner hair cell. <i>Human Molecular Genetics</i> , 2009, 18, 2779-2790.	2.9	99
18	A Changing Pattern of Brain-Derived Neurotrophic Factor Expression Correlates with the Rearrangement of Fibers during Cochlear Development of Rats and Mice. <i>Journal of Neuroscience</i> , 1999, 19, 3033-3042.	3.6	89

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19	Distinct requirements for TrkB and TrkC signaling in target innervation by sensory neurons. <i>Genes and Development</i> , 2002, 16, 633-645.	5.9	84
20	Lack of Brain-Derived Neurotrophic Factor Hampers Inner Hair Cell Synapse Physiology, But Protects against Noise-Induced Hearing Loss. <i>Journal of Neuroscience</i> , 2012, 32, 8545-8553.	3.6	84
21	Differential expression of otoferlin in brain, vestibular system, immature and mature cochlea of the rat. <i>European Journal of Neuroscience</i> , 2006, 24, 3372-3380.	2.6	82
22	cGMP-Prkg1 signaling and Pde5 inhibition shelter cochlear hair cells and hearing function. <i>Nature Medicine</i> , 2012, 18, 252-259.	30.7	82
23	Thyroid hormone receptors TR $\beta$ 1 and TR $\beta$ 2 differentially regulate gene expression of Kcnq4 and prestin during final differentiation of outer hair cells. <i>Journal of Cell Science</i> , 2006, 119, 2975-2984.	2.0	75
24	Thyroid Hormone Deficiency Affects Postnatal Spiking Activity and Expression of Ca <sup>2+</sup> and K <sup>+</sup> Channels in Rodent Inner Hair Cells. <i>Journal of Neuroscience</i> , 2007, 27, 3174-3186.	3.6	74
25	Otoferlin Couples to Clathrin-Mediated Endocytosis in Mature Cochlear Inner Hair Cells. <i>Journal of Neuroscience</i> , 2013, 33, 9508-9519.	3.6	74
26	Presynaptic maturation in auditory hair cells requires a critical period of sensory-independent spiking activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8720-8725.	7.1	70
27	Persistence of Cav1.3 Ca <sup>2+</sup> Channels in Mature Outer Hair Cells Supports Outer Hair Cell Afferent Signaling. <i>Journal of Neuroscience</i> , 2007, 27, 6442-6451.	3.6	67
28	The Neural Bases of Tinnitus: Lessons from Deafness and Cochlear Implants. <i>Journal of Neuroscience</i> , 2020, 40, 7190-7202.	3.6	65
29	Thyroid Hormone-deficient Period Prior to the Onset of Hearing Is Associated with Reduced Levels of $\beta$ -Tectorin Protein in the Tectorial Membrane. <i>Journal of Biological Chemistry</i> , 2001, 276, 39046-39052.	3.4	63
30	The function of BDNF in the adult auditory system. <i>Neuropharmacology</i> , 2014, 76, 719-728.	4.1	62
31	Reduced sound-evoked and resting-state BOLD fMRI connectivity in tinnitus. <i>NeuroImage: Clinical</i> , 2018, 20, 637-649.	2.7	61
32	Cochlear NMDA Receptors as a Therapeutic Target of Noise-Induced Tinnitus. <i>Cellular Physiology and Biochemistry</i> , 2015, 35, 1905-1923.	1.6	59
33	Estrogen and the inner ear: megalin knockout mice suffer progressive hearing loss. <i>FASEB Journal</i> , 2008, 22, 410-417.	0.5	58
34	Rab8b GTPase, a protein transport regulator, is an interacting partner of otoferlin, defective in a human autosomal recessive deafness form. <i>Human Molecular Genetics</i> , 2008, 17, 3814-3821.	2.9	58
35	Distinct thyroid hormone-dependent expression of trkB and p75NGFR in nonneuronal cells during the critical TH-dependent period of the cochlea. <i>Journal of Neurobiology</i> , 1999, 38, 338-356.	3.6	57
36	Deafness in LIMP2-deficient mice due to early loss of the potassium channel KCNQ1/KCNE1 in marginal cells of the stria vascularis. <i>Journal of Physiology</i> , 2006, 576, 73-86.	2.9	54

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37	Differential expression of trkB.T1 and trkB.T2, truncated trkC, and p75NGFR in the cochlea prior to hearing function. <i>Journal of Comparative Neurology</i> , 1999, 414, 33-49.	1.6	53
38	Synaptophysin and Gap-43 proteins in efferent fibers of the inner ear during postnatal development. <i>Developmental Brain Research</i> , 1995, 89, 73-86.	1.7	52
39	OSBPL2 encodes a protein of inner and outer hair cell stereocilia and is mutated in autosomal dominant hearing loss (DFNA67). <i>Orphanet Journal of Rare Diseases</i> , 2015, 10, 15.	2.7	52
40	Genetics of Tinnitus: An Emerging Area for Molecular Diagnosis and Drug Development. <i>Frontiers in Neuroscience</i> , 2016, 10, 377.	2.8	52
41	Enhanced Central Neural Gain Compensates Acoustic Trauma-induced Cochlear Impairment, but Unlikely Correlates with Tinnitus and Hyperacusis. <i>Neuroscience</i> , 2019, 407, 146-169.	2.3	50
42	$\hat{1}\pm<sub>2</sub>\hat{1}^3$ Is Essential for Normal Structure and Function of Auditory Nerve Synapses and Is a Novel Candidate for Auditory Processing Disorders. <i>Journal of Neuroscience</i> , 2014, 34, 434-445.	3.6	49
43	Loss of Mammal-specific Tectorial Membrane Component Carcinoembryonic Antigen Cell Adhesion Molecule 16 (CEACAM16) Leads to Hearing Impairment at Low and High Frequencies. <i>Journal of Biological Chemistry</i> , 2012, 287, 21584-21598.	3.4	46
44	BDNF mRNA expression and protein localization are changed in age-related hearing loss. <i>Neurobiology of Aging</i> , 2007, 28, 586-601.	3.1	43
45	Lower ototoxicity and absence of hidden hearing loss point to gentamicin C1a and apramycin as promising antibiotics for clinical use. <i>Scientific Reports</i> , 2019, 9, 2410.	3.3	43
46	Hypothyroidism impairs chloride homeostasis and onset of inhibitory neurotransmission in developing auditory brainstem and hippocampal neurons. <i>European Journal of Neuroscience</i> , 2008, 28, 2371-2380.	2.6	41
47	Molecular aspects of tinnitus. <i>Hearing Research</i> , 2010, 266, 60-69.	2.0	39
48	Midazolam Reverses Salicylate-Induced Changes in Brain-Derived Neurotrophic Factor and Arg3.1 Expression: Implications for Tinnitus Perception and Auditory Plasticity. <i>Molecular Pharmacology</i> , 2008, 74, 595-604.	2.3	38
49	Thyroid hormone receptor $\hat{1}\pm 1$ is a critical regulator for the expression of ion channels during final differentiation of outer hair cells. <i>Histochemistry and Cell Biology</i> , 2007, 128, 65-75.	1.7	37
50	Biomarkers for Hearing Dysfunction: Facts and Outlook. <i>Orl</i> , 2017, 79, 93-111.	1.1	33
51	Deafness in $TR\hat{1}^2$ Mutants Is Caused by Malformation of the Tectorial Membrane. <i>Journal of Neuroscience</i> , 2009, 29, 2581-2587.	3.6	32
52	BDNF in Lower Brain Parts Modifies Auditory Fiber Activity to Gain Fidelity but Increases the Risk for Generation of Central Noise After Injury. <i>Molecular Neurobiology</i> , 2016, 53, 5607-5627.	4.0	30
53	The glucocorticoid antagonist mifepristone attenuates sound-induced long-term deficits in auditory nerve response and central auditory processing in female rats. <i>FASEB Journal</i> , 2018, 32, 3005-3019.	0.5	30
54	Age-related hearing loss pertaining to potassium ion channels in the cochlea and auditory pathway. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 823-840.	2.8	28

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55	Expression of glycine receptors and gephyrin in the rat cochlea. <i>Histochemistry and Cell Biology</i> , 2008, 129, 513-523.	1.7	26
56	Critical role for cochlear hair cell BK channels for coding the temporal structure and dynamic range of auditory information for central auditory processing. <i>FASEB Journal</i> , 2012, 26, 3834-3843.	0.5	26
57	Specific synaptopathies diversify brain responses and hearing disorders: you lose the gain from early life. <i>Cell and Tissue Research</i> , 2015, 361, 77-93.	2.9	26
58	A new twist in an old story: The role for crosstalk of neuronal and trophic activity. <i>Neurochemistry International</i> , 1997, 31, 659-676.	3.8	25
59	Autonomous functions of murine thyroid hormone receptor TR $\beta$ and TR $\alpha$ 2 in cochlear hair cells. <i>Molecular and Cellular Endocrinology</i> , 2014, 382, 26-37.	3.2	25
60	G $\alpha$ i Proteins are Indispensable for Hearing. <i>Cellular Physiology and Biochemistry</i> , 2018, 47, 1509-1532.	1.6	25
61	NO-Sensitive Guanylate Cyclase Isoforms NO-GC1 and NO-GC2 Contribute to Noise-Induced Inner Hair Cell Synaptopathy. <i>Molecular Pharmacology</i> , 2017, 92, 375-388.	2.3	24
62	Salicylate Alters the Expression of Calcium Response Transcription Factor 1 in the Cochlea: Implications for Brain-Derived Neurotrophic Factor Transcriptional Regulation. <i>Molecular Pharmacology</i> , 2008, 73, 1085-1091.	2.3	22
63	OPA1, the disease gene for optic atrophy type Kjer, is expressed in the inner ear. <i>Histochemistry and Cell Biology</i> , 2007, 128, 421-430.	1.7	21
64	L-type Calcium Channel Cav1.2 Is Required for Maintenance of Auditory Brainstem Nuclei. <i>Journal of Biological Chemistry</i> , 2015, 290, 23692-23710.	3.4	17
65	Visualizing BDNF Transcript Usage During Sound-Induced Memory Linked Plasticity. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 260.	2.9	17
66	Functional biomarkers that distinguish between tinnitus with and without hyperacusis. <i>Clinical and Translational Medicine</i> , 2021, 11, e378.	4.0	17
67	L-type CaV1.2 deletion in the cochlea but not in the brainstem reduces noise vulnerability: implication for CaV1.2-mediated control of cochlear BDNF expression. <i>Frontiers in Molecular Neuroscience</i> , 2013, 6, 20.	2.9	15
68	Fine Tuning of CaV1.3 Ca <sup>2+</sup> Channel Properties in Adult Inner Hair Cells Positioned in the Most Sensitive Region of the Gerbil Cochlea. <i>PLoS ONE</i> , 2014, 9, e113750.	2.5	15
69	GC-B Deficient Mice With Axon Bifurcation Loss Exhibit Compromised Auditory Processing. <i>Frontiers in Neural Circuits</i> , 2018, 12, 65.	2.8	14
70	Co-occurrence of Hyperacusis Accelerates With Tinnitus Burden Over Time and Requires Medical Care. <i>Frontiers in Neurology</i> , 2021, 12, 627522.	2.4	14
71	Generation of somatic electromechanical force by outer hair cells may be influenced by prestin-CASK interaction at the basal junction with the Deiters cell. <i>Histochemistry and Cell Biology</i> , 2013, 140, 119-135.	1.7	13
72	Too Blind to See the Elephant? Why Neuroscientists Ought to Be Interested in Tinnitus. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2021, 22, 609-621.	1.8	13

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73	BDNF-Live-Exon-Visualization (BLEV) Allows Differential Detection of BDNF Transcripts in vitro and in vivo. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 325.	2.9	12
74	Disturbed Balance of Inhibitory Signaling Links Hearing Loss and Cognition. <i>Frontiers in Neural Circuits</i> , 2021, 15, 785603.	2.8	11
75	Deletion of myosin VI causes slow retinal optic neuropathy and age-related macular degeneration (AMD)-relevant retinal phenotype. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 3953-3969.	5.4	10
76	Detection of Excitatory and Inhibitory Synapses in the Auditory System Using Fluorescence Immunohistochemistry and High-Resolution Fluorescence Microscopy. <i>Methods in Molecular Biology</i> , 2016, 1427, 263-276.	0.9	10
77	Guanylyl Cyclase A/cGMP Signaling Slows Hidden, Age- and Acoustic Trauma-Induced Hearing Loss. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 83.	3.4	10
78	Molecular characterization of anion exchangers in the cochlea. <i>Molecular and Cellular Biochemistry</i> , 2000, 205, 25-37.	3.1	9
79	Molecular Mechanism of Tinnitus. <i>Springer Handbook of Auditory Research</i> , 2012, , 59-82.	0.7	9
80	Ergic2, a Brain Specific Interacting Partner of Otoferlin. <i>Cellular Physiology and Biochemistry</i> , 2012, 29, 941-948.	1.6	8
81	Loss of glycine receptors containing the $\hat{1}\pm 3$ subunit compromises auditory nerve activity, but not outer hair cell function. <i>Hearing Research</i> , 2016, 337, 25-34.	2.0	8
82	Distinct Stress Response and Altered Striatal Transcriptome in Alpha-Synuclein Overexpressing Mice. <i>Frontiers in Neuroscience</i> , 2018, 12, 1033.	2.8	8
83	Age-Dependent Auditory Processing Deficits after Cochlear Synaptopathy Depend on Auditory Nerve Latency and the Ability of the Brain to Recruit LTP/BDNF. <i>Brain Sciences</i> , 2020, 10, 710.	2.3	8
84	Altered Phenotype of the Vestibular Organ in GLAST-1 Null Mice. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2012, 13, 323-333.	1.8	7
85	Deletion of BDNF in Pax2 Lineage-Derived Interneuron Precursors in the Hindbrain Hampers the Proportion of Excitation/Inhibition, Learning, and Behavior. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 642679.	2.9	7
86	Auditory Threshold Variability in the SAMP8 Mouse Model of Age-Related Hearing Loss: Functional Loss and Phenotypic Change Precede Outer Hair Cell Loss. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 708190.	3.4	7
87	Auditory system: development, genetics, function, aging, and diseases. <i>Cell and Tissue Research</i> , 2015, 361, 1-6.	2.9	6
88	Insights from the third international conference on hyperacusis: causes, evaluation, diagnosis, and treatment. <i>Noise and Health</i> , 2018, 20, 162-170.	0.5	6
89	Loss of central mineralocorticoid or glucocorticoid receptors impacts auditory nerve processing in the cochlea. <i>IScience</i> , 2022, 25, 103981.	4.1	5
90	The Geisler Method: Tracing Activity-Dependent cGMP Plasticity Changes upon Double Detection of mRNA and Protein on Brain Slices. <i>Methods in Molecular Biology</i> , 2013, 1020, 223-233.	0.9	4

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91	The role of cGMP signalling in auditory processing in health and disease. British Journal of Pharmacology, 2021, , .	5.4	3
92	Absence of Early Neuronal Death in the Olivocochlear System Following Acoustic Overstimulation. Anatomical Record, 2016, 299, 103-110.	1.4	2
93	Fire & Flower in the Cochlea oder Wie die Haarsinneszellen im Innenohr in AbhÄngigkeit von Thyroidhormon erblÄ4hen. E-Neuroforum, 2003, 9, 113-120.	0.1	1
94	Differential deletion of GDNF in the auditory system leads to altered sound responsiveness. Journal of Neuroscience Research, 2020, 98, 1764-1779.	2.9	1
95	The aftermath of tinnitus-inducing inner ear damage for auditory brainstem responses and MEMR imaging of central brain activity in the rat. Hearing, Balance and Communication, 2020, 18, 225-233.	0.4	1
96	Activities of the Right Temporo-Parieto-Occipital Junction Reflect Spatial Hearing Ability in Cochlear Implant Users. Frontiers in Neuroscience, 2021, 15, 613101.	2.8	1
97	CYCLIN DEPENDENT KINASE INHIBITORS DURING POSTNATAL DEVELOPMENT OF THE RAT. Biochemical Society Transactions, 1996, 24, 555S-555S.	3.4	0
98	Individual Characteristics of Members of the SLC26 Family in Vertebrates and their Homologues in Insects. Novartis Foundation Symposium, 2008, , 19-41.	1.1	0
99	The role of particulate guanylyl cyclase B (GC-B) in auditory function in adult mice. BMC Pharmacology & Toxicology, 2015, 16, .	2.4	0
100	Age, noise and cGMP: Pharmacological activation of soluble guanylyl cyclase (sGC) interacts with the progression of age related and noise induced hearing loss. BMC Pharmacology & Toxicology, 2015, 16, .	2.4	0
101	Tinnitus Research: Improvement and Innovation. Trends in Hearing, 2019, 23, 233121651983713.	1.3	0
102	Individual characteristics of members of the SLC26 family in vertebrates and their homologues in insects. Novartis Foundation Symposium, 2006, 273, 19-30; discussion 30-41, 261-4.	1.1	0