Marcus MÃ¼ller

List of Publications by Year
in descending order

44 papers	1,750 citations	361413 20 h-index	276875 41 g-index
44 all docs	44 docs citations	44 times ranked	1778 citing authors

#	Article	IF	Citations
1	A physiological placeâ€“frequency map of the cochlea in the CBA/J mouse. Hearing Research, 2005, 202, 63-73.	2.0	367
2	The cochlear place-frequency map of the adult and developing mongolian gerbil. Hearing Research, 1996, 94, 148-156.	2.0	226
3	Deletion of the Ca2+-activated potassium (BK) Â-subunit but not the BKÂ1-subunit leads to progressive hearing loss. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12922-12927.	7.1	173
4	Lack of Bdnf and TrkB signalling in the postnatal cochlea leads to a spatial reshaping of innervation along the tonotopic axis and hearing loss. Development (Cambridge), 2003, 130, 4741-4750.	2.5	120
5	Developmental changes of frequency representation in the rat cochlea. Hearing Research, 1991, 56, 1-7.	2.0	61
6	Estrogen and the inner ear: megalin knockout mice suffer progressive hearing loss. FASEB Journal, 2008, 22, 410-417.	0.5	58
7	Water channel proteins in the inner ear and their link to hearing impairment and deafness. Molecular Aspects of Medicine, 2012, 33, 612-637.	6.4	55
8	BDNF mRNA expression and protein localization are changed in age-related hearing loss. Neurobiology of Aging, 2007, 28, 586-601.	3.1	43
9	Lower ototoxicity and absence of hidden hearing loss point to gentamicin C1a and apramycin as promising antibiotics for clinical use. Scientific Reports, 2019, 9, 2410.	3.3	43
10	Molecular aspects of tinnitus. Hearing Research, 2010, 266, 60-69.	2.0	39
11	NANOCIâ€”Nanotechnology Based Cochlear Implant With Gapless Interface to Auditory Neurons. Otology and Neurotology, 2017, 38, e224-e231.	1.3	38
12	A physiological frequency-position map of the chinchilla cochlea. Hearing Research, 2010, 268, 184-193.	2.0	37
13	Biofunctionalized peptide-based hydrogels provide permissive scaffolds to attract neurite outgrowth from spiral ganglion neurons. Colloids and Surfaces B: Biointerfaces, 2017, 149, 105-114.	5.0	35
14	Cochlear place-frequency map in the marsupial Monodelphis domestica. Hearing Research, 1993, 67, 198-202.	2.0	34
15	Co-localisation of Kir4.1 and AQP4 in rat and human cochleae reveals a gap in water channel expression at the transduction sites of endocochlear K+ recycling routes. Cell and Tissue Research, 2012, 350, 27-43.	2.9	33
16	Rate-versus-level functions of primary auditory nerve fibres: Evidence for square law behaviour of all fibre categories in the guinea pig. Hearing Research, 1991, 55, 50-56.	2.0	30
17	Loss of auditory function in transgenic Mpv17-deficient mice. Hearing Research, 1997, 114, 259-263.	2.0	26
18	Frequency representation and spiral ganglion cell density in the cochlea of the gerbil Pachyuromys duprasi. Hearing Research, 1991, 56, 191-196.	2.0	25

#	Article	IF	Citations
19	A Novel Microperfusion System for the Long-Term Local Supply of Drugs to the Inner Ear: Implantation and Function in the Rat Model. Audiology and Neuro-Otology, 2001, 6, 250-258.	1.3	25
20	Shapes of rate-versus-level functions of primary auditory nerve fibres: Test of the basilar membrane mechanical hypothesis. Hearing Research, 1991, 57, 71-78.	2.0	23
21	Hair cell regeneration after local application of gentamicin at the round window of the cochlea in the pigeon. Hearing Research, 1998, 120, 25-36.	2.0	21
22	Increased noise sensitivity and altered inner ear MENA distribution in VASP?/? mice. Cell and Tissue Research, 2004, 318, 493-502.	2.9	21
23	Regeneration after tall hair cell damage following severe acoustic trauma in adult pigeons: correlation between cochlear morphology, compound action potential responses and single fiber properties in single animals. Hearing Research, 1996, 102, 133-154.	2.0	19
24	Methyl methacrylate embedding to study the morphology and immunohistochemistry of adult guinea pig and mouse cochleae. Journal of Neuroscience Methods, 2015, 254, 86-93.	2.5	16
25	Lack of Tff3 Peptide Results in Hearing Impairment and Accelerated Presbyacusis. Cellular Physiology and Biochemistry, 2008, 21, 437-444.	1.6	15
26	Whole organ culture of the postnatal sensory inner ear in simulated microgravity. Journal of Neuroscience Methods, 2008, 171, 60-71.	2.5	14
27	Assessing cisplatin-induced ototoxicity and otoprotection in whole organ culture of the mouse inner ear in simulated microgravity. Toxicology Letters, 2014, 227, 203-212.	0.8	14
28	Responses of auditory nerve fibers innervating regenerated hair cells after local application of gentamicin at the round window of the cochlea in the pigeon. Hearing Research, 1999, 131, 153-169.	2.0	13
29	AMPA-type glutamate receptor subunits are expressed in the avian cochlear hair cells and ganglion cells. NeuroReport, 1999, 10, 2137-2141.	1.2	13
30	Diagnostic Yield of Targeted Hearing Loss Gene Panel Sequencing in a Large German Cohort With a Balanced Age Distribution from a Single Diagnostic Center: An Eight-year Study. Ear and Hearing, 2022, 43, 1049-1066.	2.1	13
31	Functional Recovery of Hearing following AMPA-Induced Reversible Disruption of Hair Cell Afferent Synapses in the Avian Inner Ear. Audiology and Neuro-Otology, 2001, 6, 66-78.	1.3	12
32	Hair cell loss and regeneration after severe acoustic overstimulation in the adult pigeon. Hearing Research, 1998, 120, 109-120.	2.0	11
33	Fine control of drug delivery for cochlear implant applications. Hearing, Balance and Communication, 2015, 13, 153-159.	0.4	11
34	A Novel Buoyancy Technique Optimizes Simulated Microgravity Conditions for Whole Sensory Organ Culture in Rotating Bioreactors. Tissue Engineering - Part C: Methods, 2010, 16, 51-61.	2.1	8
35	Age-Dependency of Neurite Outgrowth in Postnatal Mouse Cochlear Spiral Ganglion Explants. Brain Sciences, 2020, 10, 580.	2.3	8
36	Intrinsically Self-renewing Neuroprogenitors From the A/J Mouse Spiral Ganglion as Virtually Unlimited Source of Mature Auditory Neurons. Frontiers in Cellular Neuroscience, 2020, 14, 395.	3.7	8

#	Article	IF	Citations
37	Myelin-induced inhibition in a spiral ganglion organ culture â€“ Approaching a natural environment in vitro. Neuroscience, 2017, 357, 75-83.	2.3	7
38	Auditory Threshold Variability in the SAMP8 Mouse Model of Age-Related Hearing Loss: Functional Loss and Phenotypic Change Precede Outer Hair Cell Loss. Frontiers in Aging Neuroscience, 2021, 13, 708190.	3.4	7
39	Aberrant COL11A1 splicing causes prelingual autosomal dominant nonsyndromic hearing loss in the DFNA37 locus. Human Mutation, 2021, 42, 25-30.	2.5	6
40	The ototoxic effect of locally applied kanamycin and furosemide in guinea pigs. Journal of Neuroscience Methods, 2022, 372, 109527.	2.5	6
41	Poly (ADP-Ribose) Polymerase-1 (PARP1) Deficiency and Pharmacological Inhibition by Pirenzepine Protects From Cisplatin-Induced Ototoxicity Without Affecting Antitumor Efficacy. Frontiers in Cellular Neuroscience, 2019, 13, 406.	3.7	5
42	Phoenix auditory neurons as 3R cell model for high throughput screening of neurogenic compounds. Hearing Research, 2022, 414, 108391.	2.0	5
43	Bmi1 Loss in the Organ of Corti Results in p16ink4a Upregulation and Reduced Cell Proliferation of Otic Progenitors In Vitro. PLoS ONE, 2016, 11, e0164579.	2.5	4
44	ExplantAnalyzer: An advanced automated neurite outgrowth analysis evaluated by means of organotypic auditory neuron explant cultures. Journal of Neuroscience Methods, 2021, 363, 109341.	2.5	2