Jochen Schacht

List of Publications by Year
in descending order

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105	8,490	38742 50	43889 91
papers	citations	h-index	g-index

106	106	106	4625
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aminoglycoside Antibiotics. Audiology and Neuro-Otology, 2000, 5, 3-22.	1.3	545
2	Differential vulnerability of basal and apical hair cells is based on intrinsic susceptibility to free radicals. Hearing Research, 2001, 155, 1-8.	2.0	346
3	Delayed production of free radicals following noise exposure. Brain Research, 2004, 1019, 201-209.	2.2	311
4	Formation of free radicals by gentamicin and iron and evidence for an iron/gentamicin complex. Biochemical Pharmacology, 1995, 50, 1749-1752.	4.4	280
5	Cisplatin and Aminoglycoside Antibiotics: Hearing Loss and Its Prevention. Anatomical Record, 2012, 295, 1837-1850.	1.4	279
6	New developments in aminoglycoside therapy and ototoxicity. Hearing Research, 2011, 281, 28-37.	2.0	238
7	Intense noise induces formation of vasoactive lipid peroxidation products in the cochlea. Brain Research, 2000, 878, 163-173.	2.2	233
8	Antioxidants attenuate gentamicin-induced free radical formation in vitro and ototoxicity in vivo: D-methionine is a potential protectant. Hearing Research, 2000, 142, 34-40.	2.0	212
9	Aminoglycoside ototoxicity in adult CBA, C57BL and BALB mice and the Sprague–Dawley rat. Hearing Research, 2001, 158, 165-178.	2.0	207
10	Dissociation of antibacterial activity and aminoglycoside ototoxicity in the 4-monosubstituted 2-deoxystreptamine apramycin. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10984-10989.	7.1	185
11	Attenuation of cochlear damage from noise trauma by an iron chelator, a free radical scavenger and glial cell line-derived neurotrophic factor in vivo. Brain Research, 1999, 815, 317-325.	2.2	175
12	Oxidative imbalance in the aging inner ear. Neurobiology of Aging, 2007, 28, 1605-1612.	3.1	172
13	Development of Novel Aminoglycoside (NB54) with Reduced Toxicity and Enhanced Suppression of Disease-Causing Premature Stop Mutations. Journal of Medicinal Chemistry, 2009, 52, 2836-2845.	6.4	169
14	Glutathione limits noise-induced hearing loss. Hearing Research, 2000, 146, 28-34.	2.0	168
15	The mitochondrion: A perpetrator of acquired hearing loss. Hearing Research, 2013, 303, 12-19.	2.0	168
16	Protection from noise-induced lipid peroxidation and hair cell loss in the cochlea. Brain Research, 2003, 966, 265-273.	2.2	165
17	Stimulation of free radical formation by aminoglycoside antibiotics. Hearing Research, 1999, 128, 112-118.	2.0	155
18	Aspirin to Prevent Gentamicin-Induced Hearing Loss. New England Journal of Medicine, 2006, 354, 1856-1857.	27.0	154

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19	Variable efficacy of radical scavengers and iron chelators to attenuate gentamicin ototoxicity in guinea pig in vivo. Hearing Research, 1996, 94, 87-93.	2.0	151
20	Attenuation of gentamicin ototoxicity by glutathione in the guinea pig in vivo. Hearing Research, 1994, 77, 81-87.	2.0	149
21	Emerging treatments for noise-induced hearing loss. Expert Opinion on Emerging Drugs, 2011, 16, 235-245.	2.4	148
22	Antioxidant Gene Therapy Can Protect Hearing and Hair Cells from Ototoxicity. Molecular Therapy, 2004, 9, 173-181.	8.2	144
23	Isolation of an aminoglycoside receptor from guinea pig inner ear tissues and kidney. Archives of Oto-rhino-laryngology, 1979, 224, 129-134.	0.5	130
24	NFâ€ÎºB pathway protects cochlear hair cells from aminoglycosideâ€induced ototoxicity. Journal of Neuroscience Research, 2005, 79, 644-651.	2.9	128
25	Apoptosis in acquired and genetic hearing impairment: The programmed death of the hair cell. Hearing Research, 2011, 281, 18-27.	2.0	128
26	Glutathione protection against gentamicin ototoxicity depends on nutritional status. Hearing Research, 1995, 86, 15-24.	2.0	123
27	Aspirin attenuates gentamicin ototoxicity: From the laboratory to the clinic. Hearing Research, 2007, 226, 178-182.	2.0	121
28	EFFECT OF NEOMYCIN ON PHOSPHOINOSITIDE LABELLING AND CALCIUM BINDING IN GUINEA-PIG INNER EAR TISSUES IN VIVO AND IN VITRO. Journal of Neurochemistry, 1976, 26, 285-290.	3.9	120
29	Iron Chelators Protect From Aminoglycoside-Induced Cochleo- and Vestibulo-Toxicity. Free Radical Biology and Medicine, 1998, 25, 189-195.	2.9	105
30	Formation of reactive oxygen species following bioactivation of gentamicin. Free Radical Biology and Medicine, 1999, 26, 341-347.	2.9	105
31	The nitric oxide/cyclic GMP pathway: A potential major regulator of cochlear physiology. Hearing Research, 1998, 118, 168-176.	2.0	104
32	Recent Advances in Understanding Aminoglycoside Ototoxicity and Its Prevention. Audiology and Neuro-Otology, 2002, 7, 171-174.	1.3	104
33	Emerging therapeutic interventions against noise-induced hearing loss. Expert Opinion on Investigational Drugs, 2017, 26, 85-96.	4.1	99
34	Designer Aminoglycosides That Selectively Inhibit Cytoplasmic Rather than Mitochondrial Ribosomes Show Decreased Ototoxicity. Journal of Biological Chemistry, 2014, 289, 2318-2330.	3.4	97
35	Age-related hearing impairment and the triad of acquired hearing loss. Frontiers in Cellular Neuroscience, 2015, 9, 276.	3.7	96
36	Salicylate Protects Hearing and Kidney Function from Cisplatin Toxicity without Compromising its Oncolytic Action. Laboratory Investigation, 2002, 82, 585-596.	3.7	93

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37	8-Iso-Prostaglandin F_{2Î±}, a Product of Noise Exposure, Reduces Inner Ear Blood Flow. Audiology and Neuro-Otology, 2003, 8, 207-221.	1.3	93
38	Glutathione S-transferases in the organ of Corti of the rat: Enzymatic activity, subunit composition and immunohistochemical localization. Hearing Research, 1993, 71, 80-90.	2.0	86
39	Ototoxicity of aminoglycosides correlated with their action on monomolecular films of polyphosphoinositides. Biochemical Pharmacology, 1980, 29, 597-601.	4.4	81
40	Ternary Complexes of Gentamicin with Iron and Lipid Catalyze Formation of Reactive Oxygen Species. Chemical Research in Toxicology, 2005, 18, 357-364.	3.3	77
41	Detection and characterization of nitric oxide synthase in the mammalian cochlea. Brain Research, 1994, 668, 9-15.	2.2	76
42	Pharmacokinetics of Aminoglycoside Antibiotics in Blood, Inner-Ear Fluids and Tissues and Their Relationship to Ototoxicity. International Journal of Audiology, 1988, 27, 137-146.	1.7	73
43	Aminoglycosideâ€induced histone deacetylation and hair cell death in the mouse cochlea. Journal of Neurochemistry, 2009, 108, 1226-1236.	3.9	69
44	Overexpression of Copper/Zinc- Superoxide Dismutase Protects from Kanamycin-Induced Hearing Loss. Audiology and Neuro-Otology, 2001, 6, 117-123.	1.3	68
45	Calcineurin activation contributes to noise-induced hearing loss. Journal of Neuroscience Research, 2004, 78, 383-392.	2.9	68
46	A BAD link to mitochondrial cell death in the cochlea of mice with noise-induced hearing loss. Journal of Neuroscience Research, 2006, 83, 1564-1572.	2.9	68
47	Antioxidant protection in a new animal model of cisplatin-induced ototoxicity. Hearing Research, 2004, 198, 137-143.	2.0	64
48	Acoustic stimulation alters deoxyglucose uptake in the mouse cochlea and inferior colliculus. Hearing Research, 1983, 10, 217-226.	2.0	60
49	Nitric oxide/cyclic guanosine monophosphate pathway in the peripheral and central auditory system of the rat. Journal of Comparative Neurology, 1999, 404, 52-63.	1.6	57
50	Kanamycin alters cytoplasmic and nuclear phosphoinositide signaling in the organ of Corti inâ€ƒvivo. Journal of Neurochemistry, 2006, 99, 269-276.	3.9	56
51	Protection from ototoxicity of intraperitoneal gentamicin in guinea pig. Kidney International, 2000, 58, 2525-2532.	5.2	51
52	Diet is a risk factor in cisplatin ototoxicity. Hearing Research, 1995, 88, 47-53.	2.0	49
53	AIF and EndoG in noise-induced hearing loss. NeuroReport, 2004, 15, 2719-22.	1.2	49
54	Design, Multigram Synthesis, and in Vitro and in Vivo Evaluation of Propylamycin: A Semisynthetic 4,5-Deoxystreptamine Class Aminoglycoside for the Treatment of Drug-Resistant Enterobacteriaceae and Other Gram-Negative Pathogens. Journal of the American Chemical Society, 2019, 141, 5051-5061.	13.7	46

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55	Creatine and tempol attenuate noise-induced hearing loss. Brain Research, 2007, 1148, 83-89.	2.2	42
56	Localization of Soluble Guanylate Cyclase Activity in the Guinea Pig Cochlea Suggests Involvement in Regulation of Blood Flow and Supporting Cell Physiology. Journal of Histochemistry and Cytochemistry, 1997, 45, 1401-1408.	2.5	41
57	Rac/Rho pathway regulates actin depolymerization induced by aminoglycoside antibiotics. Journal of Neuroscience Research, 2006, 83, 1544-1551.	2.9	41
58	Antioxidant-enriched diet does not delay the progression of age-related hearing loss. Neurobiology of Aging, 2012, 33, 1010.e15-1010.e16.	3.1	41
59	Drug-Induced Ototoxicity. Medical Toxicology and Adverse Drug Experience, 1989, 4, 452-467.	0.8	39
60	NMR studies of iron-gentamicin complexes and the implications for aminoglycoside toxicity. Inorganica Chimica Acta, 1998, 273, 85-91.	2.4	39
61	Sketches of Otohistory Part 11: Ototoxicity: Drug-Induced Hearing Loss. Audiology and Neuro-Otology, 2006, 11, 1-6.	1.3	37
62	Identification and Evaluation of Improved 4â€²- O -(Alkyl) 4,5-Disubstituted 2-Deoxystreptamines as Next-Generation Aminoglycoside Antibiotics. MBio, 2014, 5, e01827-14.	4.1	37
63	Acoustic trauma enhances DNA binding of transcription factor AP-1 in the guinea pig inner ear. NeuroReport, 2000, 11, 859-862.	1.2	33
64	Apralogs: Apramycin 5-O-Glycosides and Ethers with Improved Antibacterial Activity and Ribosomal Selectivity and Reduced Susceptibility to the Aminoacyltransferase (3)-IV Resistance Determinant. Journal of the American Chemical Society, 2020, 142, 530-544.	13.7	30
65	Protein phosphorylation in the organ of Corti: Differential regulation by second messengers between base and apex. Hearing Research, 1991, 57, 113-120.	2.0	29
66	Energy metabolism in cochlear outer hair cells in vitro. Hearing Research, 1997, 114, 102-106.	2.0	28
67	Structural basis for selective targeting of leishmanial ribosomes: aminoglycoside derivatives as promising therapeutics. Nucleic Acids Research, 2015, 43, 8601-8613.	14.5	28
68	Morphological evidence of ototoxicity of the iron chelator deferoxamine. Hearing Research, 1997, 112, 44-48.	2.0	27
69	Elevation of superoxide dismutase increases acoustic trauma from noise exposure. Free Radical Biology and Medicine, 2005, 38, 492-498.	2.9	27
70	Activation of apoptotic pathways in the absence of cell death in an inner-ear immortomouse cell line. Hearing Research, 2012, 284, 33-41.	2.0	27
71	Characteristics of gentamicin uptake in the isolated crista ampullaris of the inner EAR of the guinea pig. Biochemical Pharmacology, 1987, 36, 89-95.	4.4	26
72	Mutant <scp>MRPS</scp> 5 affects mitoribosomal accuracy and confers stressâ€related behavioral alterations. EMBO Reports, 2018, 19, .	4.5	26

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73	Nitric oxide/Cyclic GMP pathway attenuates ATP-evoked intracellular calcium increase in supporting cells of the guinea pig cochlea. Journal of Comparative Neurology, 2000, 423, 452-461.	1.6	24
74	Mechanisms of noise damage to the cochlea. Audiological Medicine, 2007, 5, 3-9.	0.4	24
75	Metformin protects against gentamicin-induced hair cell death in vitro but not ototoxicity in vivo. Neuroscience Letters, 2014, 583, 65-69.	2.1	24
76	Auditory metabolomics, an approach to identify acute molecular effects of noise trauma. Scientific Reports, 2019, 9, 9273.	3.3	24
77	Sketches of Otohistory. Audiology and Neuro-Otology, 2005, 10, 243-247.	1.3	23
78	Ototoxicity in Dogs and Cats. Veterinary Clinics of North America - Small Animal Practice, 2012, 42, 1259-1271.	1.5	23
79	Mitochondrial Peroxiredoxin 3 Regulates Sensory Cell Survival in the Cochlea. PLoS ONE, 2013, 8, e61999.	2.5	23
80	Effects of the 1-N-(4-Amino-2S-hydroxybutyryl) and 6â€²-N-(2-Hydroxyethyl) Substituents on Ribosomal Selectivity, Cochleotoxicity, and Antibacterial Activity in the Sisomicin Class of Aminoglycoside Antibiotics. ACS Infectious Diseases, 2018, 4, 1114-1120.	3.8	22
81	Cyclic GMP-dependent protein kinase-I in the guinea pig cochlea. Hearing Research, 1999, 131, 63-70.	2.0	21
82	Disparities in auditory physiology and pathology between C57BL/6J and C57BL/6N substrains. Hearing Research, 2014, 318, 18-22.	2.0	20
83	An Advanced Apralog with Increased inâ€…vitro and inâ€…vivo Activity toward Gramâ€negative Pathogens and Reduced ex vivo Cochleotoxicity. ChemMedChem, 2021, 16, 335-339.	3.2	20
84	Acetylcholine-evoked calcium increases in Deiters' cells of the guinea pig cochlea suggest ?9-like receptors. Journal of Neuroscience Research, 2001, 63, 252-256.	2.9	18
85	Vestibular dysfunction in the adult CBA/CaJ mouse after lead and cadmium treatment. Environmental Toxicology, 2017, 32, 869-876.	4.0	16
86	Alleles that modulate late life hearing in genetically heterogeneous mice. Neurobiology of Aging, 2012, 33, 1842.e15-1842.e29.	3.1	15
87	Drug-Induced Hearing Loss. , 2008, , 219-256.		15
88	Tumor Necrosis Factor-alpha-mutant Mice Exhibit High Frequency Hearing Loss. JARO - Journal of the Association for Research in Otolaryngology, 2013, 14, 801-811.	1.8	14
89	Assessing ototoxicity due to chronic lead and cadmium intake with and without noise exposure in the mature mouse. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2018, 81, 1041-1057.	2.3	14
90	Inductive tissue interactions during inner ear development. Archives of Oto-rhino-laryngology, 1984, 240, 27-33.	0.5	13

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91	Histone Deacetylase Inhibitors Are Protective in Acute but Not in Chronic Models of Ototoxicity. Frontiers in Cellular Neuroscience, 2017, 11, 315.	3.7	10
92	Sketches of Otohistory Part 4: A Cell by Any Other Name: Cochlear Eponyms. Audiology and Neuro-Otology, 2004, 9, 317-327.	1.3	7
93	Molecular and genetic aspects of aminoglycoside-induced hearing loss. Drug Discovery Today Disease Mechanisms, 2006, 3, 119-124.	0.8	6
94	Polyphosphoinositides in insect muscle and sensory tissues.. Journal of Neurochemistry, 1979, 32, 247-248.	3.9	3
95	Nuclear Factor kappa B p65 Expression in Mouse Cochlea. Journal of Otology, 2007, 2, 30-35.	1.0	1
96	Introduction: Pathology of the inner ear. Hearing Research, 2011, 281, 1-2.	2.0	1
97	Auditory Pathology: When Hearing is Out of Balance. , 2008, , 1-7.		1
98	In Vitro Models for Ototoxic Research. Methods in Pharmacology and Toxicology, 2014, , 199-222.	0.2	1
99	Protection and Repair of Audition. , 2007, , 995-1008.		1
100	Phenotype of Mrps5-Associated Phylogenetic Polymorphisms Is Intimately Linked to Mitoribosomal Misreading. International Journal of Molecular Sciences, 2022, 23, 4384.	4.1	1
101	Protection and Repair of Hearing. , 2014, , 1375-1395.		0
102	Welcome to Journal of Otorhinolaryngology, Hearing and Balance Medicine. Journal of Otorhinolaryngology Hearing and Balance Medicine, 2018, 1, 1.	0.2	0
103	Pharmacologic Intervention for Acquired Hearing Loss: Assays of Drug-Induced Inner Ear Damage. , 2014, , 1-11.		0
104	My Dull Deaf Ears: Four Millennia of Acquired Hearing Loss. Springer Handbook of Auditory Research, 2014, , 551-567.	0.7	0
105	Pharmacologic Intervention for Acquired Hearing Loss: Assays of Drug-Induced Inner Ear Damage. , 2016, , 3791-3800.		0