

Jochen Schacht

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

8,490
citations

38742

50
h-index

43889

91
g-index

106
all docs

106
docs citations

106
times ranked

4625
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenotype of Mrps5-Associated Phylogenetic Polymorphisms Is Intimately Linked to Mitochondrial Misreading. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4384.	4.1	1
2	An Advanced Apralogs with Increased in vitro and in vivo Activity toward Gram-negative Pathogens and Reduced ex vivo Cochleotoxicity. <i>ChemMedChem</i> , 2021, 16, 335-339.	3.2	20
3	Apralogs: Apramycin 5-O-Glycosides and Ethers with Improved Antibacterial Activity and Ribosomal Selectivity and Reduced Susceptibility to the Aminoglycoside (3)-IV Resistance Determinant. <i>Journal of the American Chemical Society</i> , 2020, 142, 530-544.	13.7	30
4	Auditory metabolomics, an approach to identify acute molecular effects of noise trauma. <i>Scientific Reports</i> , 2019, 9, 9273.	3.3	24
5	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. <i>Journal of the American Chemical Society</i> , 2019, 141, 5051-5061.	13.7	46
6	Effects of the 1-N-(4-Amino-2-S-hydroxybutyryl) and 6-N-(2-Hydroxyethyl) Substituents on Ribosomal Selectivity, Cochleotoxicity, and Antibacterial Activity in the Sisomicin Class of Aminoglycoside Antibiotics. <i>ACS Infectious Diseases</i> , 2018, 4, 1114-1120.	3.8	22
7	Mutant MRPS 5 affects mitochondrial accuracy and confers stress-related behavioral alterations. <i>EMBO Reports</i> , 2018, 19, .	4.5	26
8	Assessing ototoxicity due to chronic lead and cadmium intake with and without noise exposure in the mature mouse. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2018, 81, 1041-1057.	2.3	14
9	Welcome to <i>Journal of Otorhinolaryngology, Hearing and Balance Medicine</i> . <i>Journal of Otorhinolaryngology Hearing and Balance Medicine</i> , 2018, 1, 1.	0.2	0
10	Vestibular dysfunction in the adult CBA/CaJ mouse after lead and cadmium treatment. <i>Environmental Toxicology</i> , 2017, 32, 869-876.	4.0	16
11	Emerging therapeutic interventions against noise-induced hearing loss. <i>Expert Opinion on Investigational Drugs</i> , 2017, 26, 85-96.	4.1	99
12	Histone Deacetylase Inhibitors Are Protective in Acute but Not in Chronic Models of Ototoxicity. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 315.	3.7	10
13	Pharmacologic Intervention for Acquired Hearing Loss: Assays of Drug-Induced Inner Ear Damage. , 2016, , 3791-3800.		0
14	Age-related hearing impairment and the triad of acquired hearing loss. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 276.	3.7	96
15	Structural basis for selective targeting of leishmanial ribosomes: aminoglycoside derivatives as promising therapeutics. <i>Nucleic Acids Research</i> , 2015, 43, 8601-8613.	14.5	28
16	Designer Aminoglycosides That Selectively Inhibit Cytoplasmic Rather than Mitochondrial Ribosomes Show Decreased Ototoxicity. <i>Journal of Biological Chemistry</i> , 2014, 289, 2318-2330.	3.4	97
17	Identification and Evaluation of Improved 4-N-(Alkyl) 4,5-Disubstituted 2-Deoxystreptamines as Next-Generation Aminoglycoside Antibiotics. <i>MBio</i> , 2014, 5, e01827-14.	4.1	37
18	Protection and Repair of Hearing. , 2014, , 1375-1395.		0

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19	Disparities in auditory physiology and pathology between C57BL/6J and C57BL/6N substrains. <i>Hearing Research</i> , 2014, 318, 18-22.	2.0	20
20	Metformin protects against gentamicin-induced hair cell death in vitro but not ototoxicity in vivo. <i>Neuroscience Letters</i> , 2014, 583, 65-69.	2.1	24
21	In Vitro Models for Ototoxic Research. <i>Methods in Pharmacology and Toxicology</i> , 2014, , 199-222.	0.2	1
22	Pharmacologic Intervention for Acquired Hearing Loss: Assays of Drug-Induced Inner Ear Damage. , 2014, , 1-11.		0
23	My Dull Deaf Ears: Four Millennia of Acquired Hearing Loss. <i>Springer Handbook of Auditory Research</i> , 2014, , 551-567.	0.7	0
24	Tumor Necrosis Factor-alpha-mutant Mice Exhibit High Frequency Hearing Loss. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2013, 14, 801-811.	1.8	14
25	The mitochondrion: A perpetrator of acquired hearing loss. <i>Hearing Research</i> , 2013, 303, 12-19.	2.0	168
26	Mitochondrial Peroxiredoxin 3 Regulates Sensory Cell Survival in the Cochlea. <i>PLoS ONE</i> , 2013, 8, e61999.	2.5	23
27	Dissociation of antibacterial activity and aminoglycoside ototoxicity in the 4-monosubstituted 2-deoxystreptamine apramycin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10984-10989.	7.1	185
28	Cisplatin and Aminoglycoside Antibiotics: Hearing Loss and Its Prevention. <i>Anatomical Record</i> , 2012, 295, 1837-1850.	1.4	279
29	Antioxidant-enriched diet does not delay the progression of age-related hearing loss. <i>Neurobiology of Aging</i> , 2012, 33, 1010.e15-1010.e16.	3.1	41
30	Alleles that modulate late life hearing in genetically heterogeneous mice. <i>Neurobiology of Aging</i> , 2012, 33, 1842.e15-1842.e29.	3.1	15
31	Activation of apoptotic pathways in the absence of cell death in an inner-ear immortal mouse cell line. <i>Hearing Research</i> , 2012, 284, 33-41.	2.0	27
32	Ototoxicity in Dogs and Cats. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 2012, 42, 1259-1271.	1.5	23
33	Emerging treatments for noise-induced hearing loss. <i>Expert Opinion on Emerging Drugs</i> , 2011, 16, 235-245.	2.4	148
34	New developments in aminoglycoside therapy and ototoxicity. <i>Hearing Research</i> , 2011, 281, 28-37.	2.0	238
35	Apoptosis in acquired and genetic hearing impairment: The programmed death of the hair cell. <i>Hearing Research</i> , 2011, 281, 18-27.	2.0	128
36	Introduction: Pathology of the inner ear. <i>Hearing Research</i> , 2011, 281, 1-2.	2.0	1

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37	Aminoglycoside-induced histone deacetylation and hair cell death in the mouse cochlea. <i>Journal of Neurochemistry</i> , 2009, 108, 1226-1236.	3.9	69
38	Development of Novel Aminoglycoside (NB54) with Reduced Toxicity and Enhanced Suppression of Disease-Causing Premature Stop Mutations. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 2836-2845.	6.4	169
39	Auditory Pathology: When Hearing is Out of Balance. , 2008, , 1-7.		1
40	Drug-Induced Hearing Loss. , 2008, , 219-256.		15
41	Mechanisms of noise damage to the cochlea. <i>Audiological Medicine</i> , 2007, 5, 3-9.	0.4	24
42	Nuclear Factor kappa B p65 Expression in Mouse Cochlea. <i>Journal of Otology</i> , 2007, 2, 30-35.	1.0	1
43	Oxidative imbalance in the aging inner ear. <i>Neurobiology of Aging</i> , 2007, 28, 1605-1612.	3.1	172
44	Aspirin attenuates gentamicin ototoxicity: From the laboratory to the clinic. <i>Hearing Research</i> , 2007, 226, 178-182.	2.0	121
45	Creatine and tempol attenuate noise-induced hearing loss. <i>Brain Research</i> , 2007, 1148, 83-89.	2.2	42
46	Protection and Repair of Audition. , 2007, , 995-1008.		1
47	Molecular and genetic aspects of aminoglycoside-induced hearing loss. <i>Drug Discovery Today Disease Mechanisms</i> , 2006, 3, 119-124.	0.8	6
48	Kanamycin alters cytoplasmic and nuclear phosphoinositide signaling in the organ of Corti <i>in vivo</i> . <i>Journal of Neurochemistry</i> , 2006, 99, 269-276.	3.9	56
49	A BAD link to mitochondrial cell death in the cochlea of mice with noise-induced hearing loss. <i>Journal of Neuroscience Research</i> , 2006, 83, 1564-1572.	2.9	68
50	Rac/Rho pathway regulates actin depolymerization induced by aminoglycoside antibiotics. <i>Journal of Neuroscience Research</i> , 2006, 83, 1544-1551.	2.9	41
51	Aspirin to Prevent Gentamicin-Induced Hearing Loss. <i>New England Journal of Medicine</i> , 2006, 354, 1856-1857.	27.0	154
52	Sketches of Otohistory Part 11: Ototoxicity: Drug-Induced Hearing Loss. <i>Audiology and Neuro-Otology</i> , 2006, 11, 1-6.	1.3	37
53	Elevation of superoxide dismutase increases acoustic trauma from noise exposure. <i>Free Radical Biology and Medicine</i> , 2005, 38, 492-498.	2.9	27
54	NF- κ B pathway protects cochlear hair cells from aminoglycoside-induced ototoxicity. <i>Journal of Neuroscience Research</i> , 2005, 79, 644-651.	2.9	128

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55	Ternary Complexes of Gentamicin with Iron and Lipid Catalyze Formation of Reactive Oxygen Species. <i>Chemical Research in Toxicology</i> , 2005, 18, 357-364.	3.3	77
56	Sketches of Otohistory. <i>Audiology and Neuro-Otology</i> , 2005, 10, 243-247.	1.3	23
57	Sketches of Otohistory Part 4: A Cell by Any Other Name: Cochlear Eponyms. <i>Audiology and Neuro-Otology</i> , 2004, 9, 317-327.	1.3	7
58	Antioxidant Gene Therapy Can Protect Hearing and Hair Cells from Ototoxicity. <i>Molecular Therapy</i> , 2004, 9, 173-181.	8.2	144
59	Delayed production of free radicals following noise exposure. <i>Brain Research</i> , 2004, 1019, 201-209.	2.2	311
60	Calcineurin activation contributes to noise-induced hearing loss. <i>Journal of Neuroscience Research</i> , 2004, 78, 383-392.	2.9	68
61	Antioxidant protection in a new animal model of cisplatin-induced ototoxicity. <i>Hearing Research</i> , 2004, 198, 137-143.	2.0	64
62	AIF and EndoG in noise-induced hearing loss. <i>NeuroReport</i> , 2004, 15, 2719-22.	1.2	49
63	Protection from noise-induced lipid peroxidation and hair cell loss in the cochlea. <i>Brain Research</i> , 2003, 966, 265-273.	2.2	165
64	8-Iso-Prostaglandin F ₂ α , a Product of Noise Exposure, Reduces Inner Ear Blood Flow. <i>Audiology and Neuro-Otology</i> , 2003, 8, 207-221.	1.3	93
65	Recent Advances in Understanding Aminoglycoside Ototoxicity and Its Prevention. <i>Audiology and Neuro-Otology</i> , 2002, 7, 171-174.	1.3	104
66	Salicylate Protects Hearing and Kidney Function from Cisplatin Toxicity without Compromising its Oncolytic Action. <i>Laboratory Investigation</i> , 2002, 82, 585-596.	3.7	93
67	Differential vulnerability of basal and apical hair cells is based on intrinsic susceptibility to free radicals. <i>Hearing Research</i> , 2001, 155, 1-8.	2.0	346
68	Aminoglycoside ototoxicity in adult CBA, C57BL and BALB mice and the Sprague-Dawley rat. <i>Hearing Research</i> , 2001, 158, 165-178.	2.0	207
69	Overexpression of Copper/Zinc-Superoxide Dismutase Protects from Kanamycin-Induced Hearing Loss. <i>Audiology and Neuro-Otology</i> , 2001, 6, 117-123.	1.3	68
70	Acetylcholine-evoked calcium increases in Deiters' cells of the guinea pig cochlea suggest α 9-like receptors. <i>Journal of Neuroscience Research</i> , 2001, 63, 252-256.	2.9	18
71	Acoustic trauma enhances DNA binding of transcription factor AP-1 in the guinea pig inner ear. <i>NeuroReport</i> , 2000, 11, 859-862.	1.2	33
72	Nitric oxide/Cyclic GMP pathway attenuates ATP-evoked intracellular calcium increase in supporting cells of the guinea pig cochlea. <i>Journal of Comparative Neurology</i> , 2000, 423, 452-461.	1.6	24

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73	Protection from ototoxicity of intraperitoneal gentamicin in guinea pig. <i>Kidney International</i> , 2000, 58, 2525-2532.	5.2	51
74	Intense noise induces formation of vasoactive lipid peroxidation products in the cochlea. <i>Brain Research</i> , 2000, 878, 163-173.	2.2	233
75	Antioxidants attenuate gentamicin-induced free radical formation in vitro and ototoxicity in vivo: D-methionine is a potential protectant. <i>Hearing Research</i> , 2000, 142, 34-40.	2.0	212
76	Glutathione limits noise-induced hearing loss. <i>Hearing Research</i> , 2000, 146, 28-34.	2.0	168
77	Aminoglycoside Antibiotics. <i>Audiology and Neuro-Otology</i> , 2000, 5, 3-22.	1.3	545
78	Attenuation of cochlear damage from noise trauma by an iron chelator, a free radical scavenger and glial cell line-derived neurotrophic factor in vivo. <i>Brain Research</i> , 1999, 815, 317-325.	2.2	175
79	Formation of reactive oxygen species following bioactivation of gentamicin. <i>Free Radical Biology and Medicine</i> , 1999, 26, 341-347.	2.9	105
80	Nitric oxide/cyclic guanosine monophosphate pathway in the peripheral and central auditory system of the rat. <i>Journal of Comparative Neurology</i> , 1999, 404, 52-63.	1.6	57
81	Stimulation of free radical formation by aminoglycoside antibiotics. <i>Hearing Research</i> , 1999, 128, 112-118.	2.0	155
82	Cyclic GMP-dependent protein kinase-I in the guinea pig cochlea. <i>Hearing Research</i> , 1999, 131, 63-70.	2.0	21
83	NMR studies of iron-gentamicin complexes and the implications for aminoglycoside toxicity. <i>Inorganica Chimica Acta</i> , 1998, 273, 85-91.	2.4	39
84	Iron Chelators Protect From Aminoglycoside-Induced Cochleo- and Vestibulo-Toxicity. <i>Free Radical Biology and Medicine</i> , 1998, 25, 189-195.	2.9	105
85	The nitric oxide/cyclic GMP pathway: A potential major regulator of cochlear physiology. <i>Hearing Research</i> , 1998, 118, 168-176.	2.0	104
86	Localization of Soluble Guanylate Cyclase Activity in the Guinea Pig Cochlea Suggests Involvement in Regulation of Blood Flow and Supporting Cell Physiology. <i>Journal of Histochemistry and Cytochemistry</i> , 1997, 45, 1401-1408.	2.5	41
87	Morphological evidence of ototoxicity of the iron chelator deferoxamine. <i>Hearing Research</i> , 1997, 112, 44-48.	2.0	27
88	Energy metabolism in cochlear outer hair cells in vitro. <i>Hearing Research</i> , 1997, 114, 102-106.	2.0	28
89	Variable efficacy of radical scavengers and iron chelators to attenuate gentamicin ototoxicity in guinea pig in vivo. <i>Hearing Research</i> , 1996, 94, 87-93.	2.0	151
90	Formation of free radicals by gentamicin and iron and evidence for an iron/gentamicin complex. <i>Biochemical Pharmacology</i> , 1995, 50, 1749-1752.	4.4	280

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91	Diet is a risk factor in cisplatin ototoxicity. <i>Hearing Research</i> , 1995, 88, 47-53.	2.0	49
92	Glutathione protection against gentamicin ototoxicity depends on nutritional status. <i>Hearing Research</i> , 1995, 86, 15-24.	2.0	123
93	Detection and characterization of nitric oxide synthase in the mammalian cochlea. <i>Brain Research</i> , 1994, 668, 9-15.	2.2	76
94	Attenuation of gentamicin ototoxicity by glutathione in the guinea pig in vivo. <i>Hearing Research</i> , 1994, 77, 81-87.	2.0	149
95	Glutathione S-transferases in the organ of Corti of the rat: Enzymatic activity, subunit composition and immunohistochemical localization. <i>Hearing Research</i> , 1993, 71, 80-90.	2.0	86
96	Protein phosphorylation in the organ of Corti: Differential regulation by second messengers between base and apex. <i>Hearing Research</i> , 1991, 57, 113-120.	2.0	29
97	Drug-Induced Ototoxicity. <i>Medical Toxicology and Adverse Drug Experience</i> , 1989, 4, 452-467.	0.8	39
98	Pharmacokinetics of Aminoglycoside Antibiotics in Blood, Inner-Ear Fluids and Tissues and Their Relationship to Ototoxicity. <i>International Journal of Audiology</i> , 1988, 27, 137-146.	1.7	73
99	Characteristics of gentamicin uptake in the isolated crista ampullaris of the inner EAR of the guinea pig. <i>Biochemical Pharmacology</i> , 1987, 36, 89-95.	4.4	26
100	Inductive tissue interactions during inner ear development. <i>Archives of Oto-rhino-laryngology</i> , 1984, 240, 27-33.	0.5	13
101	Acoustic stimulation alters deoxyglucose uptake in the mouse cochlea and inferior colliculus. <i>Hearing Research</i> , 1983, 10, 217-226.	2.0	60
102	Ototoxicity of aminoglycosides correlated with their action on monomolecular films of polyphosphoinositides. <i>Biochemical Pharmacology</i> , 1980, 29, 597-601.	4.4	81
103	Polyphosphoinositides in insect muscle and sensory tissues.. <i>Journal of Neurochemistry</i> , 1979, 32, 247-248.	3.9	3
104	Isolation of an aminoglycoside receptor from guinea pig inner ear tissues and kidney. <i>Archives of Oto-rhino-laryngology</i> , 1979, 224, 129-134.	0.5	130
105	EFFECT OF NEOMYCIN ON PHOSPHOINOSITIDE LABELLING AND CALCIUM BINDING IN GUINEA-PIG INNER EAR TISSUES IN VIVO AND IN VITRO. <i>Journal of Neurochemistry</i> , 1976, 26, 285-290.	3.9	120