Mark E Warchol

List of Publications by Year
in descending order

60 papers	3,004 citations	136950 32 h-index	175258 52 g-index
68 all docs	68 docs citations	68 times ranked	2104 citing authors

#	Article	IF	Citations
1	Asymmetric Localization of Vangl2 and Fz3 Indicate Novel Mechanisms for Planar Cell Polarity in Mammals. Journal of Neuroscience, 2006, 26, 5265-5275.	3.6	283
2	Sensory regeneration in the vertebrate inner ear: Differences at the levels of cells and species. Hearing Research, 2011, 273, 72-79.	2.0	136
3	Inhibition of Caspases Prevents Ototoxic and Ongoing Hair Cell Death. Journal of Neuroscience, 2002, 22, 1218-1227.	3.6	127
4	Regenerative Proliferation in Organ Cultures of the Avian Cochlea: Identification of the Initial Progenitors and Determination of the Latency of the Proliferative Response. Journal of Neuroscience, 1996, 16, 5466-5477.	3.6	125
5	Fractalkine Signaling Regulates Macrophage Recruitment into the Cochlea and Promotes the Survival of Spiral Ganglion Neurons after Selective Hair Cell Lesion. Journal of Neuroscience, 2015, 35, 15050-15061.	3.6	124
6	Critical signaling events during the aminoglycosideâ€induced death of sensory hair cells <i>in vitro</i>. Journal of Neurobiology, 2004, 61, 250-266.	3.6	101
7	The Transcriptome of Utricle Hair Cell Regeneration in the Avian Inner Ear. Journal of Neuroscience, 2014, 34, 3523-3535.	3.6	98
8	Differentiation of the Lateral Compartment of the Cochlea Requires a Temporally Restricted FGF20 Signal. PLoS Biology, 2012, 10, e1001231.	5.6	97
9	Caspase Inhibitors Promote Vestibular Hair Cell Survival and Function after Aminoglycoside Treatment<i>In Vivo</i>. Journal of Neuroscience, 2003, 23, 6111-6122.	3.6	95
10	Supporting Cells Eliminate Dying Sensory Hair Cells to Maintain Epithelial Integrity in the Avian Inner Ear. Journal of Neuroscience, 2010, 30, 12545-12556.	3.6	90
11	Cellular mechanisms of aminoglycoside ototoxicity. Current Opinion in Otolaryngology and Head and Neck Surgery, 2010, 18, 454-458.	1.8	83
12	Two cell populations participate in clearance of damaged hair cells from the sensory epithelia of the inner ear. Hearing Research, 2017, 352, 70-81.	2.0	81
13	Overexpression of <i>Bclâ€2</i> prevents neomycinâ€induced hair cell death and caspaseâ€9 activation in the adult mouse utricle <i>in vitro</i>. Journal of Neurobiology, 2004, 60, 89-100.	3.6	73
14	Large Scale Gene Expression Profiles of Regenerating Inner Ear Sensory Epithelia. PLoS ONE, 2007, 2, e525.	2.5	71
15	Selective Deletion of Cochlear Hair Cells Causes Rapid Age-Dependent Changes in Spiral Ganglion and Cochlear Nucleus Neurons. Journal of Neuroscience, 2015, 35, 7878-7891.	3.6	69
16	Cell Density and N-Cadherin Interactions Regulate Cell Proliferation in the Sensory Epithelia of the Inner Ear. Journal of Neuroscience, 2002, 22, 2607-2616.	3.6	68
17	Macrophage activity in organ cultures of the avian cochlea: Demonstration of a resident population and recruitment to sites of hair cell lesions. Journal of Neurobiology, 1997, 33, 724-734.	3.6	67
18	Cochlear progenitor number is controlled through mesenchymal FGF receptor signaling. ELife, 2015, 4, .	6.0	63

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19	Gene expression differences in quiescent versus regenerating hair cells of avian sensory epithelia: implications for human hearing and balance disorders. Human Molecular Genetics, 2003, 12, 1261-1272.	2.9	59
20	Toward a Systems Biology of Mouse Inner Ear Organogenesis: Gene Expression Pathways, Patterns and Network Analysis. Genetics, 2007, 177, 631-653.	2.9	59
21	Immune cytokines and dexamethasone influence sensory regeneration in the avian vestibular periphery. , 1999, 28, 889-900.		58
22	Macrophage recruitment and epithelial repair following hair cell injury in the mouse utricle. Frontiers in Cellular Neuroscience, 2015, 9, 150.	3.7	51
23	Lack of Fractalkine Receptor on Macrophages Impairs Spontaneous Recovery of Ribbon Synapses After Moderate Noise Trauma in C57BL/6 Mice. Frontiers in Neuroscience, 2019, 13, 620.	2.8	50
24	Identification of the Hair Cell Soma-1 Antigen, HCS-1, as Otoferlin. JARO - Journal of the Association for Research in Otolaryngology, 2010, 11, 573-586.	1.8	44
25	Genetic disruption of fractalkine signaling leads to enhanced loss of cochlear afferents following ototoxic or acoustic injury. Journal of Comparative Neurology, 2018, 526, 824-835.	1.6	44
26	Depletion of Resident Macrophages Does Not Alter Sensory Regeneration in the Avian Cochlea. PLoS ONE, 2012, 7, e51574.	2.5	41
27	Regulation of Cellular Calcium in Vestibular Supporting Cells by Otopetrin 1. Journal of Neurophysiology, 2010, 104, 3439-3450.	1.8	40
28	Hair Cell Regeneration: The Identities of Progenitor Cells, Potential Triggers and Instructive Cues. Novartis Foundation Symposium, 1991, 160, 103-130.	1.1	40
29	Cisplatin Ototoxicity Blocks Sensory Regeneration in the Avian Inner Ear. Journal of Neuroscience, 2010, 30, 3473-3481.	3.6	39
30	Identification of direct downstream targets of Dlx5 during early inner ear development. Human Molecular Genetics, 2011, 20, 1262-1273.	2.9	37
31	Supporting cells in avian vestibular organs proliferate in serum-free culture. Hearing Research, 1993, 71, 28-36.	2.0	34
32	Epigenetic Influences on Sensory Regeneration: Histone Deacetylases Regulate Supporting Cell Proliferation in the Avian Utricle. JARO - Journal of the Association for Research in Otolaryngology, 2009, 10, 341-353.	1.8	34
33	Missense mutations in Otopetrin 1 affect subcellular localization and inhibition of purinergic signaling in vestibular supporting cells. Molecular and Cellular Neurosciences, 2011, 46, 655-661.	2.2	34
34	Characterization of supporting cell phenotype in the avian inner ear: Implications for sensory regeneration. Hearing Research, 2007, 227, 11-18.	2.0	33
35	Expression of GATA3 and tenascin in the avian vestibular maculae: Normative patterns and changes during sensory regeneration. Journal of Comparative Neurology, 2007, 500, 646-657.	1.6	33
36	An RNA Interference-Based Screen of Transcription Factor Genes Identifies Pathways Necessary for Sensory Regeneration in the Avian Inner Ear. Journal of Neuroscience, 2011, 31, 4535-4543.	3.6	31

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37	Interactions between Macrophages and the Sensory Cells of the Inner Ear. Cold Spring Harbor Perspectives in Medicine, 2019, 9, a033555.	6.2	29
38	Development of hair cell phenotype and calyx nerve terminals in the neonatal mouse utricle. Journal of Comparative Neurology, 2019, 527, 1913-1928.	1.6	28
39	Supporting cells in isolated sensory epithelia of avian utricles proliferate in serum-free culture. NeuroReport, 1995, 6, 981-984.	1.2	27
40	The Supporting-Cell Antigen: A Receptor-Like Protein Tyrosine Phosphatase Expressed in the Sensory Epithelia of the Avian Inner Ear. Journal of Neuroscience, 1999, 19, 4815-4827.	3.6	27
41	Maintained Expression of the Planar Cell Polarity Molecule Vangl2 and Reformation of Hair Cell Orientation in the Regenerating Inner Ear. JARO - Journal of the Association for Research in Otolaryngology, 2010, 11, 395-406.	1.8	27
42	Cisplatin exposure damages resident stem cells of the mammalian inner Ear. Developmental Dynamics, 2014, 243, 1328-1337.	1.8	24
43	Expression of the Gata3 transcription factor in the acoustic ganglion of the developing avian inner ear. Journal of Comparative Neurology, 2009, 516, 507-518.	1.6	22
44	Applying genomics to the avian inner ear: Development of subtractive cDNA resources for exploring sensory function and hair cell regeneration. Genomics, 2006, 87, 801-808.	2.9	19
45	Hair cell development. Current Opinion in Neurobiology, 1993, 3, 32-37.	4.2	17
46	The endocochlear potential as an indicator of reticular lamina integrity after noise exposure in mice. Hearing Research, 2018, 361, 138-151.	2.0	17
47	Vascular endothelial growth factor is required for regeneration of auditory hair cells in the avian inner ear. Hearing Research, 2020, 385, 107839.	2.0	17
48	Macrophages Respond Rapidly to Ototoxic Injury of Lateral Line Hair Cells but Are Not Required for Hair Cell Regeneration. Frontiers in Cellular Neuroscience, 2020, 14, 613246.	3.7	17
49	Macrophage secretory products influence the survival of statoacoustic neurons. NeuroReport, 1999, 10, 665-668.	1.2	15
50	Ephrin A2 May Play a Role in Axon Guidance during Hair Cell Regeneration. Laryngoscope, 2005, 115, 1021-1025.	2.0	14
51	Lectin from Griffonia simplicifolia identifies an immature-appearing subpopulation of sensory hair cells in the avian utricle. Journal of Neurocytology, 2001, 30, 253-264.	1.5	12
52	Expression of the Pax2 transcription factor is associated with vestibular phenotype in the avian inner ear. Developmental Neurobiology, 2009, 69, 191-202.	3.0	12
53	ADAM10 and Î³-secretase regulate sensory regeneration in the avian vestibular organs. Developmental Biology, 2017, 428, 39-51.	2.0	11
54	Mechanical overstimulation causes acute injury and synapse loss followed by fast recovery in lateral-line neuromasts of larval zebrafish. ELife, 2021, 10, .	6.0	10

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55	Dynamic patterns of YAP1 expression and cellular localization in the developing and injured utricle. Scientific Reports, 2021, 11, 2140.	3.3	9
56	Ongoing Cell Death and Immune Influences on Regeneration in the Vestibular Sensory Organs. Annals of the New York Academy of Sciences, 2001, 942, 34-45.	3.8	8
57	Growth Factors as Potential Drugs for the Sensory Epithelia of the Ear. Novartis Foundation Symposium, 1996, 196, 167-187.	1.1	7
58	Programmed Cell Death Recruits Macrophages Into the Developing Mouse Cochlea. Frontiers in Cell and Developmental Biology, 2021, 9, 777836.	3.7	7
59	Retinal and cochlear toxicity of drugs. Current Opinion in Neurology, 2012, 25, 76-85.	3.6	5
60	Ephrins and Ephs in cochlear innervation and implications for advancing cochlear implant function. Laryngoscope, 2015, 125, 1189-1197.	2.0	2