

Daniel C Marcus

List of Publications by Year in descending order

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86
papers

5,106
citations

87888

38
h-index

88630

70
g-index

86
all docs

86
docs citations

86
times ranked

3275
citing authors

#	ARTICLE	IF	CITATIONS
1	Federated learning in medicine: facilitating multi-institutional collaborations without sharing patient data. <i>Scientific Reports</i> , 2020, 10, 12598.	3.3	509
2	Targeted Ablation of Connexin26 in the Inner Ear Epithelial Gap Junction Network Causes Hearing Impairment and Cell Death. <i>Current Biology</i> , 2002, 12, 1106-1111.	3.9	409
3	Inner Ear Defects Induced by Null Mutation of the <i>Isk</i> Gene. <i>Neuron</i> , 1996, 17, 1251-1264.	8.1	380
4	KCNJ10 (Kir4.1) potassium channel knockout abolishes endocochlear potential. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 282, C403-C407.	4.6	305
5	Loss of KCNJ10 protein expression abolishes endocochlear potential and causes deafness in Pendred syndrome mouse model. <i>BMC Medicine</i> , 2004, 2, 30.	5.5	241
6	Ion transport mechanisms responsible for K ⁺ secretion and the transepithelial voltage across marginal cells of stria vascularis in vitro. <i>Hearing Research</i> , 1995, 84, 19-29.	2.0	238
7	Deafness in Claudin 11-Null Mice Reveals the Critical Contribution of Basal Cell Tight Junctions to Stria Vascularis Function. <i>Journal of Neuroscience</i> , 2004, 24, 7051-7062.	3.6	225
8	Loss of cochlear HCO ₃ ⁻ secretion causes deafness via endolymphatic acidification and inhibition of Ca ²⁺ reabsorption in a Pendred syndrome mouse model. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 292, F1345-F1353.	2.7	221
9	Localization and Functional Studies of Pendrin in the Mouse Inner Ear Provide Insight About the Etiology of Deafness in Pendred Syndrome. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2003, 4, 394-404.	1.8	130
10	Lack of pendrin HCO ₃ ⁻ transport elevates vestibular endolymphatic [Ca ²⁺] by inhibition of acid-sensitive TRPV5 and TRPV6 channels. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 292, F1314-F1321.	2.7	119
11	A Claudin-9-Based Ion Permeability Barrier Is Essential for Hearing. <i>PLoS Genetics</i> , 2009, 5, e1000610.	3.5	102
12	P2X2 Receptor Mediates Stimulation of Parasensory Cation Absorption by Cochlear Outer Sulcus Cells and Vestibular Transitional Cells. <i>Journal of Neuroscience</i> , 2001, 21, 9168-9174.	3.6	87
13	Direct measurement of longitudinal endolymph flow rate in the guinea pig cochlea. <i>Hearing Research</i> , 1986, 23, 141-151.	2.0	76
14	Expression of epithelial calcium transport system in rat cochlea and vestibular labyrinth. <i>BMC Physiology</i> , 2010, 10, 1.	3.6	68
15	Effects of barium and ion substitutions in artificial blood on endocochlear potential. <i>Hearing Research</i> , 1985, 17, 79-86.	2.0	67
16	Ca ²⁺ -activated nonselective cation, maxi K ⁺ and Cl ⁻ channels in apical membrane of marginal cells of stria vascularis. <i>Hearing Research</i> , 1992, 61, 86-96.	2.0	64
17	Developmental delays consistent with cochlear hypothyroidism contribute to failure to develop hearing in mice lacking <i>Slc26a4</i> /pendrin expression. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 297, F1435-F1447.	2.7	64
18	Glucocorticoids stimulate cation absorption by semicircular canal duct epithelium via epithelial sodium channel. <i>American Journal of Physiology - Renal Physiology</i> , 2004, 286, F1127-F1135.	2.7	63

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19	Regulation of ENaC-mediated sodium transport by glucocorticoids in Reissner's membrane epithelium. American Journal of Physiology - Cell Physiology, 2009, 296, C544-C557.	4.6	63
20	K ⁺ and Na ⁺ absorption by outer sulcus epithelial cells. Hearing Research, 1999, 134, 48-56.	2.0	61
21	P _{2U} purinergic receptor inhibits apical I _{SK} /KvLQT1 channel via protein kinase C in vestibular dark cells. American Journal of Physiology - Cell Physiology, 1997, 273, C2022-C2029.	4.6	60
22	Protein kinase C mediates P2U purinergic receptor inhibition of K ⁺ channel in apical membrane of strial marginal cells. Hearing Research, 1998, 115, 82-92.	2.0	59
23	Sidedness of action of loop diuretics and ouabain on nonsensory cells of utricle: A micro-Ussing chamber for inner ear tissues. Hearing Research, 1987, 30, 55-64.	2.0	57
24	Transepithelial voltage and resistance of vestibular dark cell epithelium from the gerbil ampulla. Hearing Research, 1994, 73, 101-108.	2.0	57
25	Estrogen acutely inhibits ion transport by isolated stria vascularis. Hearing Research, 2001, 158, 123-130.	2.0	57
26	Vitamin D upregulates expression of ECaC1 mRNA in semicircular canal. Biochemical and Biophysical Research Communications, 2005, 331, 1353-1357.	2.1	57
27	SLC26A4 Targeted to the Endolymphatic Sac Rescues Hearing and Balance in Slc26a4 Mutant Mice. PLoS Genetics, 2013, 9, e1003641.	3.5	57
28	Immunolocalization of Cl ⁻ -K ⁺ chloride channel in strial marginal cells and vestibular dark cells. Hearing Research, 2001, 160, 1-9.	2.0	56
29	Glucocorticoid regulation of genes in the amiloride-sensitive sodium transport pathway by semicircular canal duct epithelium of neonatal rat. Physiological Genomics, 2006, 24, 114-123.	2.3	56
30	Regulation of sodium transport in the inner ear. Hearing Research, 2011, 280, 21-29.	2.0	54
31	Age-Related Changes in Cochlear Endolymphatic Potassium and Potential in CD-1 and CBA/CaJ Mice. JARO - Journal of the Association for Research in Otolaryngology, 2003, 4, 353-362.	1.8	53
32	RESPIRATORY RATE AND ATP CONTENT OF STRIA VASCULARIS OF GUINEA PIG IN VITRO. Laryngoscope, 1978, 88, 1825-1835.	2.0	49
33	Changes in cation contents of stria vascularis with ouabain and potassium-free perfusion. Hearing Research, 1981, 4, 149-160.	2.0	49
34	K ⁺ -induced swelling of vestibular dark cells is dependent on Na ⁺ and Cl ⁻ and inhibited by piretanide. Pflugers Archiv European Journal of Physiology, 1990, 416, 262-269.	2.8	47
35	cAMP increases K ⁺ secretion via activation of apical I _{SK} /KvLQT1 channels in strial marginal cells. Hearing Research, 1997, 114, 107-116.	2.0	46
36	Endolymphatic sodium homeostasis by REISSNER'S membrane. Neuroscience, 2003, 119, 3-8.	2.3	44

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37	Response of cochlear potentials to presumed alterations of ionic conductance: Endolymphatic perfusion of barium, valinomycin and nystatin. <i>Hearing Research</i> , 1983, 12, 17-30.	2.0	42
38	Divalent cations inhibit $I_{sK}/KvLQT1$ channels in excised membrane patches of strial marginal cells. <i>Hearing Research</i> , 1998, 123, 157-167.	2.0	39
39	Two types of chloride channel in the basolateral membrane of vestibular dark cells. <i>Hearing Research</i> , 1993, 69, 124-132.	2.0	38
40	The membrane potential of vestibular dark cells is controlled by a large Cl^{-} conductance. <i>Hearing Research</i> , 1992, 62, 149-156.	2.0	37
41	Nongenomic Effects of Corticosteroids on Ion Transport by Stria vascularis. <i>Audiology and Neuro-Otology</i> , 2002, 7, 100-106.	1.3	37
42	Chloride secretion by semicircular canal duct epithelium is stimulated via β_2 -adrenergic receptors. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C1752-C1760.	4.6	37
43	EphB2 and ephrin-B2 regulate the ionic homeostasis of vestibular endolymph. <i>Hearing Research</i> , 2007, 223, 93-104.	2.0	35
44	Purinergic signaling in the inner ear. <i>Hearing Research</i> , 2008, 235, 1-7.	2.0	33
45	Adenosine Stimulates Anion Secretion Across Cultured and Native Adult Human Vas Deferens Epithelia1. <i>Biology of Reproduction</i> , 2003, 68, 1027-1034.	2.7	32
46	Apical $P2Y_4$ purinergic receptor controls K^{+} secretion by vestibular dark cell epithelium. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 281, C282-C289.	4.6	29
47	Membrane potential measurements of transitional cells from the crista ampullaris of the Gerbil. <i>Pflügers Archiv European Journal of Physiology</i> , 1989, 414, 656-662.	2.8	26
48	Specificity of action of vanadate to the organ of corti. <i>Hearing Research</i> , 1981, 5, 231-243.	2.0	25
49	Membrane transport parameters in frog corneal epithelium measured using impedance analysis techniques. <i>Journal of Membrane Biology</i> , 1986, 91, 213-225.	2.1	22
50	Apical membrane $P2Y_4$ purinergic receptor controls K^{+} secretion by strial marginal cell epithelium. <i>Cell Communication and Signaling</i> , 2005, 3, 13.	6.5	20
51	Slc26a7 Chloride Channel Activity and Localization in Mouse Reissner's Membrane Epithelium. <i>PLoS ONE</i> , 2014, 9, e97191.	2.5	20
52	Comparison of the non-adrenergic action of phentolamine with that of vanadate on cochlear function. <i>Hearing Research</i> , 1982, 7, 233-246.	2.0	18
53	Endolymphatic Sodium Homeostasis by Extramacular Epithelium of the Sacculle. <i>Journal of Neuroscience</i> , 2009, 29, 15851-15858.	3.6	18
54	The Na^{+}/H^{+} exchanger in transitional cells of the inner ear. <i>Hearing Research</i> , 1993, 69, 107-114.	2.0	16

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55	Inhibitory Effect of Erythromycin on Ion Transport by Stria Vascularis and Vestibular Dark Cells. <i>Acta Oto-Laryngologica</i> , 1996, 116, 572-575.	0.9	16
56	Endolymphatic Na ⁺ and K ⁺ Concentrations during Cochlear Growth and Enlargement in Mice Lacking Slc26a4/pendrin. <i>PLoS ONE</i> , 2013, 8, e65977.	2.5	15
57	Vibrating Probes: New Technology for Investigation of Endolymph Homeostasis.. <i>Keio Journal of Medicine</i> , 1996, 45, 301-305.	1.1	15
58	Transepithelial electrical responses to sodium and potassium of nonsensory region of gerbil utricle. <i>Hearing Research</i> , 1990, 44, 13-23.	2.0	14
59	cAMP-stimulated Cl ⁻ secretion is increased by glucocorticoids and inhibited by bumetanide in semicircular canal duct epithelium. <i>BMC Physiology</i> , 2013, 13, 6.	3.6	14
60	Evidence for Purinergic Receptors in Vestibular Dark Cell and Strial Marginal Cell Epithelia of Gerbil. <i>Auditory Neuroscience</i> , 1995, 1, 331-340.	0.2	14
61	Respiratory quotient of stria vascularis of guinea pig in vitro. <i>Archives of Oto-rhino-laryngology</i> , 1978, 221, 97-103.	0.5	13
62	Dependence of endocochlear potential on vascular pH. <i>Hearing Research</i> , 1987, 31, 1-7.	2.0	11
63	Ototoxic Effect of Erythromycin on Cochlear Potentials in the Guinea Pig. <i>Annals of Otology, Rhinology and Laryngology</i> , 1997, 106, 599-603.	1.1	11
64	The gastric H,K-ATPase in stria vascularis contributes to pH regulation of cochlear endolymph but not to K secretion. <i>BMC Physiology</i> , 2017, 17, 1.	3.6	10
65	I(sK) Channel in Strial Marginal Cells. Voltage-Dependence, Ion-Selectivity, Inhibition by 293B and Sensitivity to Clofilium. <i>Auditory Neuroscience</i> , 1997, 3, 215-230.	0.2	10
66	Cerebellar Ataxia Caused by Type II Unipolar Brush Cell Dysfunction in the Asic5 Knockout Mouse. <i>Scientific Reports</i> , 2020, 10, 2168.	3.3	9
67	Transepithelial cation movements in gerbil utricles. <i>American Journal of Otolaryngology - Head and Neck Medicine and Surgery</i> , 1985, 6, 268-274.	1.3	8
68	Inward-rectifier chloride currents in Reissner's membrane epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 394, 434-438.	2.1	8
69	Sodium selectivity of Reissner's membrane epithelial cells. <i>BMC Physiology</i> , 2011, 11, 4.	3.6	8
70	Na ⁺ absorption by Claudius' cells is regulated by purinergic signaling in the cochlea. <i>Acta Oto-Laryngologica</i> , 2012, 132, S103-S108.	0.9	7
71	Ion and Fluid Homeostasis in the Cochlea. <i>Springer Handbook of Auditory Research</i> , 2017, , 253-286.	0.7	7
72	Ion transport regulation by P2Y receptors, protein kinase C and phosphatidylinositol 3-kinase within the semicircular canal duct epithelium. <i>BMC Research Notes</i> , 2010, 3, 100.	1.4	6

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73	Acoustic Transduction. , 2012, , 649-668.		6
74	Inner ear fluid homeostasis. , 2010, , .		5
75	Claudin expression during early postnatal development of the murine cochlea. BMC Physiology, 2018, 18, 1.	3.6	5
76	P2RX2 and P2RX4 receptors mediate cation absorption in transitional cells and supporting cells of the utricular macula. Hearing Research, 2020, 386, 107860.	2.0	5
77	Photometric determination of picomole quantities of calcium. Analytical Chemistry, 1972, 44, 1523-1525.	6.5	4
78	Acoustic Transduction. , 2001, , 775-791.		4
79	Cochlear and Vestibular Function and Dysfunction. , 2010, , 425-437.		3
80	Purinergic signaling in the inner ear. Purinergic Signalling, 0, , .	2.2	2
81	Sodium selectivity of semicircular canal duct epithelial cells. BMC Research Notes, 2011, 4, 355.	1.4	2
82	Microarray Analysis of Ion Transport-Related Genes in Reissner's Membrane. FASEB Journal, 2006, 20, A345.	0.5	0
83	Epithelial calcium channel (TRPV5) regulates cochlear and vestibular calcium via vitamin D-responsive pathway. FASEB Journal, 2006, 20, A800.	0.5	0
84	Regulation of ENaC-mediated sodium transport by glucocorticoids in Reissner's membrane epithelium. FASEB Journal, 2008, 22, 934.7.	0.5	0
85	Targeted expression of SLC26A4 rescues hearing and balance in Slc26a4 ^{fl/fl} mice. FASEB Journal, 2013, 27, 736.3.	0.5	0
86	Ion Transport Across Inner Ear Epithelia. Physiology in Health and Disease, 2020, , 279-305.	0.3	0