Marcelo A Catalan

List of Publications by Year
in descending order

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36 papers	1,467 citations	304602 22 h-index	345118 36 g-index
37 all docs	37 docs citations	37 times ranked	1498 citing authors

#	Article	IF	Citations
1	Tmem16A Encodes the Ca2+-activated Clâ˜ Channel in Mouse Submandibular Salivary Gland Acinar Cells. Journal of Biological Chemistry, 2010, 285, 12990-13001.	1.6	174
2	Basolateral localization of native ClC-2 chloride channels in absorptive intestinal epithelial cells and basolateral sorting encoded by a CBS-2 domain di-leucine motif. Journal of Cell Science, 2005, 118, 4243-4252.	1.2	88
3	Basolateral ClC-2 chloride channels in surface colon epithelium: regulation by a direct effect of intracellular chlorideâ˜†. Gastroenterology, 2004, 126, 1104-1114.	0.6	80
4	A Conserved Poreâ€Lining Glutamate as a Voltageâ€•and Chlorideâ€Dependent Gate in the ClCâ€2 Chloride Channel. Journal of Physiology, 2003, 553, 873-879.	1.3	77
5	The voltage-dependent ClC-2 chloride channel has a dual gating mechanism. Journal of Physiology, 2004, 555, 671-682.	1.3	77
6	Purinergic P2X7 Receptors Mediate ATP-induced Saliva Secretion by the Mouse Submandibular Gland. Journal of Biological Chemistry, 2009, 284, 4815-4822.	1.6	71
7	The salivary gland fluid secretion mechanism. Journal of Medical Investigation, 2009, 56, 192-196.	0.2	70
8	A fluid secretion pathway unmasked by acinar-specific Tmem16A gene ablation in the adult mouse salivary gland. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2263-2268.	3.3	67
9	ClC-2 in guinea pig colon: mRNA, immunolabeling, and functional evidence for surface epithelium localization. American Journal of Physiology - Renal Physiology, 2002, 283, G1004-G1013.	1.6	60
10	Nonselective cation channels as effectors of free radicalâ€“induced rat liver cell necrosis. Hepatology, 2001, 33, 114-122.	3.6	57
11	Cftr and ENaC ion channels mediate NaCl absorption in the mouse submandibular gland. Journal of Physiology, 2010, 588, 713-724.	1.3	55
12	Functional Differences in the Acinar Cells of the Murine Major Salivary Glands. Journal of Dental Research, 2015, 94, 715-721.	2.5	55
13	Temporal changes in salivary glands of nonâ€obese diabetic mice as a model for SjÃ¶grenâ€™s syndrome. Oral Diseases, 2012, 18, 96-106.	1.5	47
14	Ascl3 knockout and cell ablation models reveal complexity of salivary gland maintenance and regeneration. Developmental Biology, 2011, 353, 186-193.	0.9	46
15	Late responses to adenoviral-mediated transfer of the aquaporin-1 gene for radiation-induced salivary hypofunction. Gene Therapy, 2017, 24, 176-186.	2.3	43
16	Severe Defects in Absorptive Ion Transport in Distal Colons of Mice That Lack ClC-2 Channels. Gastroenterology, 2012, 142, 346-354.	0.6	40
17	Association of Bone Morphogenetic Protein 6 With Exocrine Gland Dysfunction in Patients With SjÃ¶gren's Syndrome and in Mice. Arthritis and Rheumatism, 2013, 65, 3228-3238.	6.7	37
18	Ae4 (Slc4a9) is an electroneutral monovalent cation-dependent Clâ˜/HCO3â˜ exchanger. Journal of General Physiology, 2016, 147, 423-436.	0.9	37

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19	Elevated Incidence of Dental Caries in a Mouse Model of Cystic Fibrosis. PLoS ONE, 2011, 6, e16549.	1.1	36
20	Removal of gating in voltage-dependent ClC-2 chloride channel by point mutations affecting the pore and C-terminus CBS-2 domain. Journal of Physiology, 2006, 572, 173-181.	1.3	35
21	Ae4 (Slc4a9) Anion Exchanger Drives Clâ^' Uptake-dependent Fluid Secretion by Mouse Submandibular Gland Acinar Cells. Journal of Biological Chemistry, 2015, 290, 10677-10688.	1.6	30
22	Clcn2encodes the hyperpolarization-activated chloride channel in the ducts of mouse salivary glands. American Journal of Physiology - Renal Physiology, 2008, 295, G1058-G1067.	1.6	29
23	Ca2+-dependent K+ channels in exocrine salivary glands. Cell Calcium, 2014, 55, 362-368.	1.1	22
24	A Variant of the Ca2+-Activated Cl Channel Best3 is Expressed in Mouse Exocrine Glands. Journal of Membrane Biology, 2008, 222, 43-54.	1.0	21
25	Withaferin A suppresses breast cancer cell proliferation by inhibition of the two-pore domain potassium (K2P9) channel TASK-3. Biomedicine and Pharmacotherapy, 2020, 129, 110383.	2.5	21
26	A quantitative analysis of electrolyte exchange in the salivary duct. American Journal of Physiology - Renal Physiology, 2012, 303, G1153-G1163.	1.6	20
27	The Role of Na:K:2Cl Cotransporter 1 (NKCC1/SLC12A2) in Dental Epithelium during Enamel Formation in Mice. Frontiers in Physiology, 2017, 8, 924.	1.3	16
28	A Mathematical Model Supports a Key Role for Ae4 (Slc4a9) in Salivary Gland Secretion. Bulletin of Mathematical Biology, 2018, 80, 255-282.	0.9	13
29	TRPV4 activation in mouse submandibular gland modulates Ca2+ influx and salivation. American Journal of Physiology - Renal Physiology, 2012, 303, G1365-G1372.	1.6	11
30	Physiological cAMP-elevating secretagogues differentially regulate fluid and protein secretions in mouse submandibular and sublingual glands. American Journal of Physiology - Cell Physiology, 2019, 316, C690-C697.	2.1	11
31	The Insensitivity of TASK-3 K2P Channels to External Tetraethylammonium (TEA) Partially Depends on the Cap Structure. International Journal of Molecular Sciences, 2018, 19, 2437.	1.8	8
32	Short Chain Fatty Acids Effect on Chloride Channel ClC-2 as a Possible Mechanism for Lubiprostone Intestinal Action. Cells, 2020, 9, 1781.	1.8	4
33	Nocturnal Light Pollution Induces Weight Gain in Mice and Reshapes the Structure, Functions, and Interactions of Their Colonic Microbiota. International Journal of Molecular Sciences, 2022, 23, 1673.	1.8	3
34	Novel Oxime Synthesized from a Natural Product of Senecio nutans SCh. Bip. (Asteraceae) Enhances Vascular Relaxation in Rats by an Endothelium-Independent Mechanism. Molecules, 2022, 27, 3333.	1.7	2
35	Activation of the Ae4 (Slc4a9) cation-driven Cl-/HCO3- exchanger by the cAMP-dependent protein kinase (PKA) in salivary gland acinar cells. American Journal of Physiology - Renal Physiology, 2021, 321, G628-G638.	1.6	1
36	Salivary Gland Secretion. , 2012, , 1229-1249.		0