James E Melvin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1175817/publications.pdf

Version: 2024-02-01

29 papers	2,381 citations	304743 22 h-index	501196 28 g-index
29 all docs	29 docs citations	29 times ranked	2324 citing authors

#	Article	IF	Citations
1	Ano6disruption impairs acinar cell regulatory volume decrease and protein secretion in murine submandibular salivary glands. Journal of Cellular Physiology, 2020, 235, 8533-8545.	4.1	0
2	Allosteric modulation of Î²-cell M ₃ muscarinic acetylcholine receptors greatly improves glucose homeostasis in lean and obese mice. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18684-18690.	7.1	22
3	Sexual dimorphisms in the transcriptomes of murine salivary glands. FEBS Open Bio, 2019, 9, 947-958.	2.3	16
4	The apical Na⁺â€“HCO₃^{â^'} cotransporter Slc4a7 (NBCn1) does not contribute to bicarbonate transport by mouse salivary gland ducts. Journal of Cellular Physiology, 2019, 234, 16376-16388.	4.1	3
5	Slc4a11disruption causes duct cell loss and impairs NaCl reabsorption in female mouse submandibular glands. Physiological Reports, 2019, 7, e14232.	1.7	5
6	The apical anion exchanger Slc26a6 promotes oxalate secretion by murine submandibular gland acinar cells. Journal of Biological Chemistry, 2018, 293, 6259-6268.	3.4	19
7	A Mathematical Model Supports a Key Role for Ae4 (Slc4a9) in Salivary Gland Secretion. Bulletin of Mathematical Biology, 2018, 80, 255-282.	1.9	13
8	Transcriptional profiling reveals gland-specific differential expression in the three major salivary glands of the adult mouse. Physiological Genomics, 2018, 50, 263-271.	2.3	37
9	Knockout of the LRRC26 subunit reveals a primary role of LRRC26-containing BK channels in secretory epithelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3739-E3747.	7.1	29
10	Ae4 (Slc4a9) is an electroneutral monovalent cation-dependent Clâ^'/HCO3â^' exchanger. Journal of General Physiology, 2016, 147, 423-436.	1.9	37
11	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.	7.1	67
12	Ae4 (Slc4a9) Anion Exchanger Drives Clâ^' Uptake-dependent Fluid Secretion by Mouse Submandibular Gland Acinar Cells. Journal of Biological Chemistry, 2015, 290, 10677-10688.	3.4	30
13	Elevated Incidence of Dental Caries in a Mouse Model of Cystic Fibrosis. PLoS ONE, 2011, 6, e16549.	2.5	36
14	Cftr and ENaC ion channels mediate NaCl absorption in the mouse submandibular gland. Journal of Physiology, 2010, 588, 713-724.	2.9	55
15	Tmem16A Encodes the Ca2+-activated Clâ^' Channel in Mouse Submandibular Salivary Gland Acinar Cells. Journal of Biological Chemistry, 2010, 285, 12990-13001.	3.4	174
16	The salivary gland fluid secretion mechanism. Journal of Medical Investigation, 2009, 56, 192-196.	0.5	70
17	Age and gender related differences in human parotid gland gene expression. Archives of Oral Biology, 2008, 53, 1058-1070.	1.8	49
18	The Proteomes of Human Parotid and Submandibular/Sublingual Gland Salivas Collected as the Ductal Secretions. Journal of Proteome Research, 2008, 7, 1994-2006.	3.7	376

#	Article	IF	Citations
19	Apical maxi-K (K_{Ca}1.1) channels mediate K⁺secretion by the mouse submandibular exocrine gland. American Journal of Physiology - Cell Physiology, 2008, 294, C810-C819.	4.6	54
20	Clcn2encodes the hyperpolarization-activated chloride channel in the ducts of mouse salivary glands. American Journal of Physiology - Renal Physiology, 2008, 295, G1058-G1067.	3.4	29
21	Regulation of membrane potential and fluid secretion by Ca2+-activated K+channels in mouse submandibular glands. Journal of Physiology, 2007, 581, 801-817.	2.9	71
22	Molecular Identification and Physiological Roles of Parotid Acinar Cell Maxi-K Channels. Journal of Biological Chemistry, 2006, 281, 27964-27972.	3.4	41
23	A Role for AQP5 in Activation of TRPV4 by Hypotonicity. Journal of Biological Chemistry, 2006, 281, 15485-15495.	3.4	221
24	REGULATION OF FLUID AND ELECTROLYTE SECRETION IN SALIVARY GLAND ACINAR CELLS. Annual Review of Physiology, 2005, 67, 445-469.	13.1	386
25	Cl-/HCO3-exchange is acetazolamide sensitive and activated by a muscarinic receptor-induced [Ca2+]iincrease in salivary acinar cells. American Journal of Physiology - Renal Physiology, 2004, 286, G312-G320.	3.4	44
26	Loss of Hyperpolarization-activated Clâ^' Current in Salivary Acinar Cells from Clcn2 Knockout Mice. Journal of Biological Chemistry, 2002, 277, 23604-23611.	3.4	104
27	Salivary Acinar Cells from Aquaporin 5-deficient Mice Have Decreased Membrane Water Permeability and Altered Cell Volume Regulation. Journal of Biological Chemistry, 2001, 276, 23413-23420.	3.4	289
28	Defective Fluid Secretion and NaCl Absorption in the Parotid Glands of Na+/H+ Exchanger-deficient Mice. Journal of Biological Chemistry, 2001, 276, 27042-27050.	3.4	72
29	Muscarinic receptorâ€induced acidification in sublingual mucous acinar cells: loss of pH recovery in Na + â^'H + exchangerâ€1 deficient mice. Journal of Physiology, 2000, 523, 139-146.	2.9	32