

Raul Estevez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7937346/publications.pdf>

Version: 2024-02-01

72
papers

5,332
citations

172457

29
h-index

95266

68
g-index

77
all docs

77
docs citations

77
times ranked

4007
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Molecular Biology of Mammalian Plasma Membrane Amino Acid Transporters. <i>Physiological Reviews</i> , 1998, 78, 969-1054. | 28.8 | 778 |
| 2 | Barttin is a Cl ⁻ channel β -subunit crucial for renal Cl ⁻ reabsorption and inner ear K ⁺ secretion. <i>Nature</i> , 2001, 414, 558-561. | 27.8 | 538 |
| 3 | Identification of a Membrane Protein, LAT-2, That Co-expresses with 4F2 Heavy Chain, an L-type Amino Acid Transport Activity with Broad Specificity for Small and Large Zwitterionic Amino Acids. <i>Journal of Biological Chemistry</i> , 1999, 274, 19738-19744. | 3.4 | 356 |
| 4 | Identification and Characterization of a Membrane Protein (γ +L Amino Acid Transporter-1) That Associates with 4F2hc to Encode the Amino Acid Transport Activity γ +L. <i>Journal of Biological Chemistry</i> , 1998, 273, 32437-32445. | 3.4 | 304 |
| 5 | Identification of SLC7A7, encoding γ +LAT-1, as the lysinuric protein intolerance gene. <i>Nature Genetics</i> , 1999, 21, 293-296. | 21.4 | 286 |
| 6 | Non-type I cystinuria caused by mutations in SLC7A9, encoding a subunit (bo,+AT) of rBAT. <i>Nature Genetics</i> , 1999, 23, 52-57. | 21.4 | 280 |
| 7 | Identification of LAT4, a Novel Amino Acid Transporter with System L Activity. <i>Journal of Biological Chemistry</i> , 2005, 280, 12002-12011. | 3.4 | 216 |
| 8 | Conservation of Chloride Channel Structure Revealed by an Inhibitor Binding Site in CLC-1. <i>Neuron</i> , 2003, 38, 47-59. | 8.1 | 161 |
| 9 | Obligatory Amino Acid Exchange via Systems bo,+like and γ +L-like. <i>Journal of Biological Chemistry</i> , 1996, 271, 17761-17770. | 3.4 | 158 |
| 10 | Mutant GlialCAM Causes Megalencephalic Leukoencephalopathy with Subcortical Cysts, Benign Familial Macrocephaly, and Macrocephaly with Retardation and Autism. <i>American Journal of Human Genetics</i> , 2011, 88, 422-432. | 6.2 | 148 |
| 11 | Functional and structural conservation of CBS domains from CLC chloride channels. <i>Journal of Physiology</i> , 2004, 557, 363-378. | 2.9 | 131 |
| 12 | Megalencephalic leukoencephalopathy with subcortical cysts: chronic white matter oedema due to a defect in brain ion and water homeostasis. <i>Lancet Neurology</i> , The, 2012, 11, 973-985. | 10.2 | 131 |
| 13 | GlialCAM, a Protein Defective in a Leukodystrophy, Serves as a CLC-2 Cl ⁻ Channel Auxiliary Subunit. <i>Neuron</i> , 2012, 73, 951-961. | 8.1 | 118 |
| 14 | Investigation of LRRC8-Mediated Volume-Regulated Anion Currents in <i>Xenopus</i> Oocytes. <i>Biophysical Journal</i> , 2016, 111, 1429-1443. | 0.5 | 94 |
| 15 | Disrupting MLC1 and GlialCAM and CLC-2 interactions in leukodystrophy entails glial chloride channel dysfunction. <i>Nature Communications</i> , 2014, 5, 3475. | 12.8 | 92 |
| 16 | The amino acid transport system γ +L/4F2hc is a heteromultimeric complex. <i>FASEB Journal</i> , 1998, 12, 1319-1329. | 0.5 | 87 |
| 17 | CLC chloride channels: correlating structure with function. <i>Current Opinion in Structural Biology</i> , 2002, 12, 531-539. | 5.7 | 86 |
| 18 | Localization and functional analyses of the MLC1 protein involved in megalencephalic leukoencephalopathy with subcortical cysts. <i>Human Molecular Genetics</i> , 2004, 13, 2581-2594. | 2.9 | 86 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | An Intracellular Trafficking Defect in Type I Cystinuria rBAT Mutants M467T and M467K. <i>Journal of Biological Chemistry</i> , 1997, 272, 9543-9549. | 3.4 | 82 |
| 20 | Molecular mechanisms of MLC1 and GLIALCAM mutations in megalencephalic leukoencephalopathy with subcortical cysts. <i>Human Molecular Genetics</i> , 2011, 20, 3266-3277. | 2.9 | 80 |
| 21 | Lysinuric protein intolerance: mechanisms of pathophysiology. <i>Molecular Genetics and Metabolism</i> , 2004, 81, 27-37. | 1.1 | 66 |
| 22 | Megalencephalic leukoencephalopathy with cysts: defect in chloride currents and cell volume regulation. <i>Brain</i> , 2011, 134, 3342-3354. | 7.6 | 63 |
| 23 | Molecular pathogenesis of megalencephalic leukoencephalopathy with subcortical cysts: mutations in MLC1 cause folding defects. <i>Human Molecular Genetics</i> , 2008, 17, 3728-3739. | 2.9 | 60 |
| 24 | Knockdown of MLC1 in primary astrocytes causes cell vacuolation: A MLC disease cell model. <i>Neurobiology of Disease</i> , 2011, 43, 228-238. | 4.4 | 60 |
| 25 | HepaCAM controls astrocyte self-organization and coupling. <i>Neuron</i> , 2021, 109, 2427-2442.e10. | 8.1 | 52 |
| 26 | Insights into MLC pathogenesis: GlialCAM is an MLC1 chaperone required for proper activation of volume-regulated anion currents. <i>Human Molecular Genetics</i> , 2013, 22, 4405-4416. | 2.9 | 50 |
| 27 | MLC1 is associated with the Dystrophin-Glycoprotein Complex at astrocytic endfeet. <i>Acta Neuropathologica</i> , 2007, 114, 403-410. | 7.7 | 49 |
| 28 | Expression patterns of MLC1 protein in the central and peripheral nervous systems. <i>Neurobiology of Disease</i> , 2007, 26, 532-545. | 4.4 | 48 |
| 29 | Megalencephalic leukoencephalopathy with subcortical cysts protein 1 regulates glial surface localization of GLIALCAM from fish to humans. <i>Human Molecular Genetics</i> , 2014, 23, 5069-5086. | 2.9 | 34 |
| 30 | GlialCAM/MLC1 modulates LRRC8/VRAC currents in an indirect manner: Implications for megalencephalic leukoencephalopathy. <i>Neurobiology of Disease</i> , 2018, 119, 88-99. | 4.4 | 34 |
| 31 | Depolarization causes the formation of a ternary complex between GlialCAM, MLC1 and ClC-2 in astrocytes: implications in megalencephalic leukoencephalopathy. <i>Human Molecular Genetics</i> , 2017, 26, 2436-2450. | 2.9 | 33 |
| 32 | Leukoencephalopathy-causing <i>CLCN2</i> mutations are associated with impaired Cl ⁻ channel function and trafficking. <i>Journal of Physiology</i> , 2017, 595, 6993-7008. | 2.9 | 33 |
| 33 | GlialCAM, a CLC-2 Cl ⁻ Channel Subunit, Activates the Slow Gate of CLC Chloride Channels. <i>Biophysical Journal</i> , 2014, 107, 1105-1116. | 0.5 | 32 |
| 34 | Cystinuria calls for heteromultimeric amino acid transporters. <i>Current Opinion in Cell Biology</i> , 1998, 10, 455-461. | 5.4 | 31 |
| 35 | Deficient LRRC8A-dependent volume-regulated anion channel activity is associated with male infertility in mice. <i>JCI Insight</i> , 2018, 3, . | 5.0 | 29 |
| 36 | Chloride Channels in Astrocytes: Structure, Roles in Brain Homeostasis and Implications in Disease. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1034. | 4.1 | 28 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Vacuolating megalencephalic leukoencephalopathy with subcortical cysts: functional studies of novel variants in MLC1. <i>Human Mutation</i> , 2006, 27, 292-292. | 2.5 | 25 |
| 38 | Myotonia-related mutations in the distal C-terminus of CLC-1 and CLC-0 chloride channels affect the structure of a poly-proline helix. <i>Biochemical Journal</i> , 2007, 403, 79-87. | 3.7 | 23 |
| 39 | Identification and Functional Characterization of CLCN1 Mutations Found in Nondystrophic Myotonia Patients. <i>Human Mutation</i> , 2016, 37, 74-83. | 2.5 | 23 |
| 40 | Expanding the spectrum of megalencephalic leukoencephalopathy with subcortical cysts in two patients with GLIALCAM mutations. <i>Neurogenetics</i> , 2014, 15, 41-48. | 1.4 | 22 |
| 41 | Postnatal development of the astrocyte perivascular MLC1/GlialCAM complex defines a temporal window for the gliovascular unit maturation. <i>Brain Structure and Function</i> , 2019, 224, 1267-1278. | 2.3 | 22 |
| 42 | Drosophila CLC-6 is required in glia of the stem cell niche for proper neurogenesis and wiring of neural circuits. <i>Glia</i> , 2019, 67, 2374-2398. | 4.9 | 21 |
| 43 | Structural determinants of interaction, trafficking and function in the CLC2/MLC1 subunit GlialCAM involved in leukodystrophy. <i>Journal of Physiology</i> , 2015, 593, 4165-4180. | 2.9 | 19 |
| 44 | Megalencephalic leukoencephalopathy with subcortical cysts: A personal biochemical retrospective. <i>European Journal of Medical Genetics</i> , 2018, 61, 50-60. | 1.3 | 19 |
| 45 | Megalencephalic Leukoencephalopathy with Subcortical Cysts Protein-1 (MLC1) Counteracts Astrocyte Activation in Response to Inflammatory Signals. <i>Molecular Neurobiology</i> , 2019, 56, 8237-8254. | 4.0 | 19 |
| 46 | Megalencephalic leukoencephalopathy with subcortical cysts is a developmental disorder of the gliovascular unit. <i>ELife</i> , 2021, 10, . | 6.0 | 19 |
| 47 | Regulatory auxiliary subunits of CLC chloride channel transport proteins. <i>Journal of Physiology</i> , 2015, 593, 4111-4127. | 2.9 | 17 |
| 48 | Identification and characterization of the zebrafish CLC-2 chloride channel orthologs. <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 1769-1781. | 2.8 | 17 |
| 49 | Cisplatin activates volume sensitive LRRC8 channel mediated currents in <i>Xenopus</i> oocytes. <i>Channels</i> , 2017, 11, 254-260. | 2.8 | 17 |
| 50 | Functional Analyses of Mutations in HEPACAM Causing Megalencephalic Leukoencephalopathy. <i>Human Mutation</i> , 2014, 35, 1175-1178. | 2.5 | 16 |
| 51 | Unique variants in CLCN3, encoding an endosomal anion/proton exchanger, underlie a spectrum of neurodevelopmental disorders. <i>American Journal of Human Genetics</i> , 2021, 108, 1450-1465. | 6.2 | 16 |
| 52 | Megalencephalic Leukoencephalopathy: Insights Into Pathophysiology and Perspectives for Therapy. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 627887. | 3.7 | 14 |
| 53 | Expression of LRRC8/VRAC Currents in <i>Xenopus</i> Oocytes: Advantages and Caveats. <i>International Journal of Molecular Sciences</i> , 2018, 19, 719. | 4.1 | 12 |
| 54 | Identification of the GlialCAM interactome: the G protein-coupled receptors GPRC5B and GPR37L1 modulate megalencephalic leukoencephalopathy proteins. <i>Human Molecular Genetics</i> , 2021, 30, 1649-1665. | 2.9 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Structural basis for the dominant or recessive character of GLIALCAM mutations found in leukodystrophies. <i>Human Molecular Genetics</i> , 2020, 29, 1107-1120. | 2.9 | 10 |
| 56 | Comparison of zebrafish and mice knockouts for Megalencephalic Leukoencephalopathy proteins indicates that GlialCAM/MLC1 forms a functional unit. <i>Orphanet Journal of Rare Diseases</i> , 2019, 14, 268. | 2.7 | 9 |
| 57 | GLIALCAM, A Glial Cell Adhesion Molecule Implicated in Neurological Disease. <i>Advances in Neurobiology</i> , 2014, 8, 47-59. | 1.8 | 9 |
| 58 | A modification of the split-tobacco etch virus method for monitoring interactions between membrane proteins in mammalian cells. <i>Analytical Biochemistry</i> , 2012, 423, 109-118. | 2.4 | 8 |
| 59 | Role of zebrafish ClC-2/barttin channels in apical kidney chloride reabsorption. <i>Journal of Physiology</i> , 2019, 597, 3969-3983. | 2.9 | 8 |
| 60 | Control of membrane protein homeostasis by a chaperone-like glial cell adhesion molecule at multiple subcellular locations. <i>Scientific Reports</i> , 2021, 11, 18435. | 3.3 | 8 |
| 61 | The LRRC8-mediated volume-regulated anion channel is altered in glaucoma. <i>Scientific Reports</i> , 2019, 9, 5392. | 3.3 | 7 |
| 62 | Cerebellar Astrocyte Transduction as Gene Therapy for Megalencephalic Leukoencephalopathy. <i>Neurotherapeutics</i> , 2020, 17, 2041-2053. | 4.4 | 7 |
| 63 | Ubr1-induced selective endophagy/autophagy protects against the endosomal and Ca ²⁺ -induced proteostasis disease stress. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 167. | 5.4 | 6 |
| 64 | <i>CLCN1</i> Myotonia congenita mutation with a variable pattern of inheritance suggests a novel mechanism of dominant myotonia. <i>Muscle and Nerve</i> , 2018, 58, 157-160. | 2.2 | 3 |
| 65 | Split-Tobacco Etch Virus (Split-TEV) Method in G Protein-Coupled Receptor Interacting Proteins. <i>Methods in Molecular Biology</i> , 2021, 2268, 223-232. | 0.9 | 3 |
| 66 | Muscarinic acetylcholine receptor M1 mutations causing neurodevelopmental disorder and epilepsy. <i>Human Mutation</i> , 2021, 42, 1215-1220. | 2.5 | 3 |
| 67 | GPR37 Receptors and Megalencephalic Leukoencephalopathy with Subcortical Cysts. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5528. | 4.1 | 3 |
| 68 | Novel Properties of LRRC8-Mediated VRAC Currents. <i>Biophysical Journal</i> , 2017, 112, 416a-417a. | 0.5 | 1 |
| 69 | Glialcam Affects CLC-Chloride Channels by Activating the Slow Gate. <i>Biophysical Journal</i> , 2013, 104, 628a. | 0.5 | 0 |
| 70 | Reduced Current Density and Surface Expression of a CLCN1 Mutation Causing Dominant or Recessive Myotonia in Costa Rica. <i>Biophysical Journal</i> , 2014, 106, 147a. | 0.5 | 0 |
| 71 | Mechanisms of Dominance of MLC2B Mutations in Glialcam, a Regulatory Subunit of the CLC-2 Chloride Channel. <i>Biophysical Journal</i> , 2020, 118, 266a-267a. | 0.5 | 0 |
| 72 | Dynamic expression of homeostatic ion channels in differentiated cortical astrocytes in vitro. <i>Pflügers Archiv European Journal of Physiology</i> , 2021, 474, 243. | 2.8 | 0 |