Antonio Felipe

List of Publications by Year
in descending order

131 papers	3,737 citations	101543 36 h-index	155660 55 g-index
135 all docs	135 docs citations	135 times ranked	3135 citing authors

#	Article	IF	Citations
1	Oxygen Sensitivity of Cloned Voltage-Gated K ⁺ Channels Expressed in the Pulmonary Vasculature. Circulation Research, 1999, 85, 489-497.	4.5	158
2	Differential Voltage-dependent K+ Channel Responses during Proliferation and Activation in Macrophages. Journal of Biological Chemistry, 2003, 278, 46307-46320.	3.4	154
3	Molecular mechanisms involved in muscle wasting in cancer and ageing: cachexia versus sarcopenia. International Journal of Biochemistry and Cell Biology, 2005, 37, 1084-1104.	2.8	144
4	Association of Kv1.5 and Kv1.3 Contributes to the Major Voltage-dependent K+ Channel in Macrophages. Journal of Biological Chemistry, 2006, 281, 37675-37685.	3.4	125
5	Potassium channels: New targets in cancer therapy. Cancer Detection and Prevention, 2006, 30, 375-385.	2.1	114
6	Involvement of potassium channels in the progression of cancer to a more malignant phenotype. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2477-2492.	2.6	106
7	The voltage-dependent K+ channels Kv1.3 and Kv1.5 in human cancer. Frontiers in Physiology, 2013, 4, 283.	2.8	99
8	Macrophages require different nucleoside transport systems for proliferation and activation. FASEB Journal, 2001, 15, 1979-1988.	0.5	94
9	The voltage-gated potassium channel Kv1.3 is a promising multitherapeutic target against human pathologies. Expert Opinion on Therapeutic Targets, 2016, 20, 577-591.	3.4	77
10	Lipopolysaccharide-induced Apoptosis of Macrophages Determines the Up-regulation of Concentrative Nucleoside Transporters Cnt1 and Cnt2 through Tumor Necrosis Factor-Î±-dependent and -independent Mechanisms. Journal of Biological Chemistry, 2001, 276, 30043-30049.	3.4	75
11	Immunomodulation of voltage-dependent K+ channels in macrophages: molecular and biophysical consequences. Journal of General Physiology, 2010, 135, 135-147.	1.9	74
12	Differential expression and regulation of nucleoside transport systems in rat liver parenchymal and hepatoma cells. Hepatology, 1998, 28, 1504-1511.	7.3	73
13	Voltage-Dependent Potassium Channels Kv1.3 and Kv1.5 in Human Cancer. Current Cancer Drug Targets, 2009, 9, 904-914.	1.6	71
14	Immunomodulatory effects of diclofenac in leukocytes through the targeting of Kv1.3 voltage-dependent potassium channels. Biochemical Pharmacology, 2010, 80, 858-866.	4.4	71
15	Na+-dependent nucleoside transport in liver: two different isoforms from the same gene family are expressed in liver cells. Biochemical Journal, 1998, 330, 997-1001.	3.7	70
16	Nutritional regulation of nucleoside transporter expression in rat small intestine. Gastroenterology, 2000, 119, 1623-1630.	1.3	68
17	A new<i>KCNQ1</i>mutation at the S5 segment that impairs its association with KCNE1 is responsible for short QT syndrome. Cardiovascular Research, 2015, 107, 613-623.	3.8	67
18	Kv1.3/Kv1.5 heteromeric channels compromise pharmacological responses in macrophages. Biochemical and Biophysical Research Communications, 2007, 352, 913-918.	2.1	65

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19	KCNE4 suppresses Kv1.3 currents by modulating trafficking, surface expression and channel gating. Journal of Cell Science, 2009, 122, 3738-3748.	2.0	64
20	Kv1.5 Association Modifies Kv1.3 Traffic and Membrane Localization. Journal of Biological Chemistry, 2008, 283, 8756-8764.	3.4	63
21	Targeting the Voltage-Dependent K+ Channels Kv1.3 and Kv1.5 as Tumor Biomarkers for Cancer Detection and Prevention. Current Medicinal Chemistry, 2012, 19, 661-674.	2.4	62
22	Regulation of Nucleoside Transport by Lipopolysaccharide, Phorbol Esters, and Tumor Necrosis Factor-Î± in Human B-lymphocytes. Journal of Biological Chemistry, 1998, 273, 26939-26945.	3.4	56
23	Selective loss of nucleoside carrier expression in rat hepatocarcinomas. Hepatology, 2000, 32, 239-246.	7.3	55
24	Implication of Voltage-Gated Potassium Channels in Neoplastic Cell Proliferation. Cancers, 2019, 11, 287.	3.7	55
25	The Potassium Channel Odyssey: Mechanisms of Traffic and Membrane Arrangement. International Journal of Molecular Sciences, 2019, 20, 734.	4.1	55
26	Pattern of KvÎ² Subunit Expression in Macrophages Depends upon Proliferation and the Mode of Activation. Journal of Immunology, 2005, 174, 4736-4744.	0.8	54
27	Developmental Switch of the Expression of Ion Channels in Human Dendritic Cells. Journal of Immunology, 2009, 183, 4483-4492.	0.8	51
28	Ion channels and anti-cancer immunity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130106.	4.0	50
29	Potassium Channels are a New Target Field in Anticancer Drug Design. Recent Patents on Anti-Cancer Drug Discovery, 2007, 2, 212-223.	1.6	46
30	Hormonal regulation of concentrative nucleoside transport in liver parenchymal cells. Biochemical Journal, 1996, 313, 915-920.	3.7	41
31	Interferon-Î³ regulates nucleoside transport systems in macrophages through signal transduction and activator of transduction factor 1 (STAT1)-dependent and -independent signalling pathways. Biochemical Journal, 2003, 375, 777-783.	3.7	41
32	Expression of concentrative nucleoside transporters SLC28 (CNT1, CNT2, and CNT3) along the rat nephron: Effect of diabetes. Kidney International, 2005, 68, 665-672.	5.2	41
33	Developmental regulation of the concentrative nucleoside transporters CNT1 and CNT2 in rat liver. Journal of Hepatology, 2001, 34, 873-880.	3.7	40
34	Skeletal muscle Kv7 (KCNQ) channels in myoblast differentiation and proliferation. Biochemical and Biophysical Research Communications, 2008, 369, 1094-1097.	2.1	39
35	Cell cycle-dependent expression of Kv1.5 is involved in myoblast proliferation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 728-736.	4.1	38
36	Sequential changes in brown adipose tissue composition, cytochrome oxidase activity and GDP binding throughout pregnancy and lactation in the rat. Biochimica Et Biophysica Acta - General Subjects, 1986, 882, 187-191.	2.4	37

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37	Caveolin interaction governs Kv1.3 lipid raft targeting. Scientific Reports, 2016, 6, 22453.	3.3	35
38	Multiple Kv1.5 targeting to membrane surface microdomains. Journal of Cellular Physiology, 2008, 217, 667-673.	4.1	34
39	Voltage-Dependent Potassium Channels Kv1.3 and Kv1.5 in Human Cancer. Biophysical Journal, 2012, 102, 135a.	0.5	34
40	Kv1.3: a multifunctional channel with many pathological implications. Expert Opinion on Therapeutic Targets, 2018, 22, 101-105.	3.4	34
41	Impact of KCNE subunits on KCNQ1 (Kv7.1) channel membrane surface targeting. Journal of Cellular Physiology, 2010, 225, 692-700.	4.1	33
42	Uridine transport in basolateral plasma membrane vesicles from rat liver. Journal of Membrane Biology, 1992, 128, 227-33.	2.1	32
43	Regulation of Na+,K+-ATPase and the Na+/K+/Cl+ co-transporter in the renal epithelial cell line NBL-1 under osmotic stress. Biochemical Journal, 1996, 319, 337-342.	3.7	30
44	Early induction of Na+-dependent uridine uptake in the regenerating rat liver. FEBS Letters, 1993, 316, 85-88.	2.8	29
45	KCNQ1/KCNE1 channels during germ-cell differentiation in the rat: Expression associated with testis pathologies. Journal of Cellular Physiology, 2005, 202, 400-410.	4.1	29
46	Emerging role for the voltage-dependent K+ channel Kv1.5 in B-lymphocyte physiology: expression associated with human lymphoma malignancy. Journal of Leukocyte Biology, 2013, 94, 779-789.	3.3	29
47	Voltage-dependent K+channel Î² subunits in muscle: Differential regulation during postnatal development and myogenesis. Journal of Cellular Physiology, 2003, 195, 187-193.	4.1	28
48	Increased voltage-dependent K+ channel Kv1.3 and Kv1.5 expression correlates with leiomyosarcoma aggressiveness. Oncology Letters, 2012, 4, 227-230.	1.8	27
49	Nucleoside transporters and liver cell growth. Biochemistry and Cell Biology, 1998, 76, 771-777.	2.0	26
50	Nitric oxide regulates nucleoside transport in activated B lymphocytes. Journal of Leukocyte Biology, 2000, 67, 345-349.	3.3	26
51	The systemic inflammatory response is involved in the regulation of K+channel expression in brain via TNF-Î±-dependent and -independent pathways. FEBS Letters, 2004, 572, 189-194.	2.8	26
52	Functional Implications of KCNE Subunit Expression for the Kv7.5 (KCNQ5) Channel. Cellular Physiology and Biochemistry, 2009, 24, 325-334.	1.6	26
53	Functional Assembly of Kv7.1/Kv7.5 Channels With Emerging Properties on Vascular Muscle Physiology. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1522-1530.	2.4	26
54	Marine n-3 PUFAs modulate IKs gating, channel expression, and location in membrane microdomains. Cardiovascular Research, 2015, 105, 223-232.	3.8	24

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55	Endocytosis: A Turnover Mechanism Controlling Ion Channel Function. Cells, 2020, 9, 1833.	4.1	24
56	Up-regulation of system A activity in the regenerating rat liver. FEBS Letters, 1993, 329, 189-193.	2.8	23
57	Differential Expression of Kv1.3 and Kv1.5 Voltage-Dependent K⁺Channels in Human Skeletal Muscle Sarcomas. Cancer Investigation, 2012, 30, 203-208.	1.3	21
58	Ubiquitination mediates Kv1.3 endocytosis as a mechanism for protein kinase C-dependent modulation. Scientific Reports, 2017, 7, 42395.	3.3	21
59	Impaired voltage-gated K+channel expression in brain during experimental cancer cachexia. FEBS Letters, 2003, 536, 45-50.	2.8	20
60	Effects of cyclosporine A on Na,K-ATPase expression in the renal epithelial cell line NBL-1. Kidney International, 1996, 50, 1483-1489.	5.2	19
61	Protein Kinase C (PKC) Activity Regulates Functional Effects of Kvî²1.3 Subunit on KV1.5 Channels. Journal of Biological Chemistry, 2012, 287, 21416-21428.	3.4	19
62	A non-canonical di-acidic signal at the C-terminal of Kv1.3 determines anterograde trafficking and surface expression. Journal of Cell Science, 2013, 126, 5681-91.	2.0	19
63	Carrier-mediated uptake of L-(+)-lactate in plasma membrane vesicles from rat liver. FEBS Letters, 1988, 235, 224-228.	2.8	18
64	Expression of Sodium-Dependent Purine Nucleoside Carrier (SPNT) mRNA Correlates with Nucleoside Transport Activity in Rat Liver. Biochemical and Biophysical Research Communications, 1997, 233, 572-575.	2.1	18
65	Fighting rheumatoid arthritis: Kv1.3 as a therapeutic target. Biochemical Pharmacology, 2019, 165, 214-220.	4.4	18
66	One-step reverse transcription polymerase chain reaction for semiquantitative analysis of mRNA expression. Methods and Findings in Experimental and Clinical Pharmacology, 2002, 24, 253.	0.8	18
67	Voltage-dependent Potassium Channels Kv1.3 and Kv1.5 in Human Fetus. Cellular Physiology and Biochemistry, 2010, 26, 219-226.	1.6	17
68	Caveolar targeting links Kv1.3 with the insulin-dependent adipocyte physiology. Cellular and Molecular Life Sciences, 2018, 75, 4059-4075.	5.4	17
69	Reduced noradrenaline turnover in brown adipose tissue of lactating rats. Comparative Biochemistry and Physiology A, Comparative Physiology, 1987, 86, 481-483.	0.6	16
70	Na+-Dependent Alanine Transport in Plasma Membrane Vesicles from Late-Pregnant Rat Livers. Pediatric Research, 1989, 26, 448-451.	2.3	16
71	Na+,K+-ATPase expression during the early phase of liver growth after partial hepatectomy. FEBS Letters, 1995, 362, 85-88.	2.8	16
72	Kv1.5 in the Immune System: the Good, the Bad, or the Ugly?. Frontiers in Physiology, 2010, 1, 152.	2.8	16

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73	The carboxy terminal domain of Kv1.3 regulates functional interactions with the KCNE4 subunit. Journal of Cell Science, 2016, 129, 4265-4277.	2.0	16
74	Unconventional EGF-induced ERK1/2-mediated Kv1.3 endocytosis. Cellular and Molecular Life Sciences, 2016, 73, 1515-1528.	5.4	16
75	Differential regulation of NavÎ² subunits during myogenesis. Biochemical and Biophysical Research Communications, 2008, 368, 761-766.	2.1	13
76	Cationic and anionic amino acid transport studies in rat red blood cells. Bioscience Reports, 1990, 10, 527-535.	2.4	12
77	Na+,K+-ATPase Expression in Maleic-Acid-Induced Fanconi Syndrome in Rats. Clinical Science, 1997, 92, 247-253.	4.3	12
78	Cytoskeletal-dependent activation of system A for neutral amino acid transport in osmotically stressed mammalian cells: A role for system A in the intracellular accumulation of osmolytes. , 1997, 173, 343-350.		11
79	Voltage-dependent Na+ channel phenotype changes in myoblasts. Consequences for cardiac repairâ˜†. Cardiovascular Research, 2007, 76, 430-441.	3.8	11
80	Unconventional calmodulin anchoring site within the AB module of Kv7.2 channels. Journal of Cell Science, 2015, 128, 3155-63.	2.0	11
81	D242N, a KV7.1 LQTS mutation uncovers a key residue for IKs voltage dependence. Journal of Molecular and Cellular Cardiology, 2017, 110, 61-69.	1.9	11
82	Up-regulation of liver system A for neutral amino acid transport in euglycemic hyperinsulinemic rats. Biochimica Et Biophysica Acta - Molecular Cell Research, 1994, 1222, 63-69.	4.1	10
83	KCNE gene expression is dependent on the proliferation and mode of activation of leukocytes. Channels, 2013, 7, 85-96.	2.8	10
84	A novel mitochondrial Kv1.3â€“caveolin axis controls cell survival and apoptosis. ELife, 2021, 10, .	6.0	10
85	Brown adipose tissue activity in hypocaloric-diet fed lactating rats. Bioscience Reports, 1986, 6, 669-675.	2.4	9
86	Does a physiological role for KCNE subunits exist in the immune system?. Communicative and Integrative Biology, 2010, 3, 166-168.	1.4	9
87	The unconventional biogenesis of Kv7.1-KCNE1 complexes. Science Advances, 2020, 6, eaay4472.	10.3	9
88	The Mitochondrial Routing of the Kv1.3 Channel. Frontiers in Oncology, 2022, 12, 865686.	2.8	9
89	Different Kv2.1/Kv9.3 heteromer expression during brain and lung post-natal development in the rat. Journal of Physiology and Biochemistry, 2002, 58, 195-203.	3.0	8
90	Targeting of Kv7.5 (KCNQ5)/KCNE channels to surface microdomains of cell membranes. Muscle and Nerve, 2012, 45, 48-54.	2.2	8

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91	Triple-Colocalization Approach to Assess Traffic Patterns and Their Modulation. Methods in Molecular Biology, 2019, 2040, 215-233.	0.9	8
92	Coordinate induction of Na+-dependent transport systems and Na+,K+-ATPase in the liver of obese Zucker rats. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1196, 45-50.	2.6	7
93	The calmodulinâ€binding tetraleucine motif of KCNE4 is responsible for association with Kv1.3. FASEB Journal, 2019, 33, 8263-8279.	0.5	7
94	Bicarbonate stimulation of Na+ transport in liver basolateral plasma membrane vesicles requires the presence of a transmembrane pH gradient. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1029, 61-66.	2.6	6
95	Calmodulin-dependent KCNE4 dimerization controls membrane targeting. Scientific Reports, 2021, 11, 14046.	3.3	6
96	S-acylation-dependent membrane microdomain localization of the regulatory KvÎ²2.1 subunit. Cellular and Molecular Life Sciences, 2022, 79, 230.	5.4	6
97	Changes in alanine and glutamine transport during rat red blood cell maturation. Bioscience Reports, 1992, 12, 47-56.	2.4	5
98	Cloning, molecular characterization and expression of ecto-nucleoside triphosphate diphosphohydrolase-1 from Torpedo electric organ. Neurochemistry International, 2007, 50, 256-263.	3.8	5
99	Remodeling of Kv7.1 and Kv7.5 Expression in Vascular Tumors. International Journal of Molecular Sciences, 2020, 21, 6019.	4.1	5
100	Alanine uptake by liver of mid-lactating rats. Metabolism: Clinical and Experimental, 1993, 42, 1109-1115.	3.4	4
101	Functional Consequences of the Variable Stoichiometry of the Kv1.3-KCNE4 Complex. Cells, 2020, 9, 1128.	4.1	4
102	KCNE4-dependent functional consequences of Kv1.3-related leukocyte physiology. Scientific Reports, 2021, 11, 14632.	3.3	4
103	Kv1.3 Controls Mitochondrial Dynamics during Cell Cycle Progression. Cancers, 2021, 13, 4457.	3.7	4
104	Molecular Cloning of a Bovine Renal G-Protein Coupled Receptor Gene (bRGR): Regulation of bRGR mRNA Levels by Amino Acid Availability. Biochemical and Biophysical Research Communications, 1997, 238, 107-112.	2.1	3
105	Lack of effect of clinical doses of cyclosporin A on erythrocyte Na+/K+-ATPase activity. Clinical Science, 1999, 97, 283-290.	4.3	2
106	Kv1.3 In Microglia: Neuroinflammatory Determinant and Promising Pharmaceutical Target. Journal of Neurology and Neuromedicine, 2018, 3, 18-23.	0.9	2
107	Enhanced N-system activity for neutral amino acid transport in plasma membrane vesicles from livers of genetically obese Zucker rats. Biochemical Society Transactions, 1990, 18, 1249-1249.	3.4	1
108	Ontogeny of L-Alanine Uptake in Plasma Membrane Vesicles from Rat Liver. Pediatric Research, 1995, 38, 81-85.	2.3	1

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109	Lack of effect of clinical doses of cyclosporin A on erythrocyte Na+/K+-ATPase activity. Clinical Science, 1999, 97, 283.	4.3	1
110	Differential Regulation Of NavÃŸ Subunits During Myogenesis. Biophysical Journal, 2009, 96, 250a-251a.	0.5	1
111	The Spanish Ion Channel Initiative (SICI) Consortium: Ten Years (2008â€"2018) of a Network of Excellence on Ion Channel Research. International Journal of Molecular Sciences, 2018, 19, 3514.	4.1	1
112	Amino Acid Uptake by Liver in Pregnant and Lactating Rats. , 1990, , 287-290.		1
113	Oligomerization and Spatial Distribution of KvÎ²1.1 and KvÎ²2.1 Regulatory Subunits. Frontiers in Physiology, 0, 13, .	2.8	1
114	Role of substrate availability on net <scp>l</scp>-lactate uptake by liver of fed and 24-h-starved rats. Biochemical Society Transactions, 1990, 18, 995-996.	3.4	0
115	Hepatic Transport of Gluconeogenic Substrates During Tumor Growth in the Rat. Cancer Investigation, 2001, 19, 248-255.	1.3	0
116	Partnership interactions target Kv1.5 to distinct membrane surface microdomains. Biophysical Journal, 2009, 96, 176a.	0.5	0
117	Immunomodulation of Voltage-Dependent K+ Channels in Macrophages: Molecular and Biophysical Consequences. Biophysical Journal, 2010, 98, 118a.	0.5	0
118	Selective Formation of Oligomeric Kv7.5 (KCNQ5)/KCNE1 and Kv7.5 (KCNQ5)/KCNE3 Channels. Differential Targeting to Membrane Surface Microdomains. Biophysical Journal, 2012, 102, 678a.	0.5	0
119	A Non-Canonical Di-Acidic Signal at the C-Terminal of KV1.3 Determines Anterograde Trafficking and Surface Expression. Biophysical Journal, 2014, 106, 739a.	0.5	0
120	A New KCNQ1 Mutation at the S5 Segment that Impairs its Association with KCNE1 is Responsible for Short QT Syndrome. Biophysical Journal, 2016, 110, 448a-449a.	0.5	0
121	ERK1/2 Mediates EGF-Dependent Kv1.3 Endocytosis. Biophysical Journal, 2017, 112, 251a-252a.	0.5	0
122	Deciphering the Kv1.3/Caveolin Interaction. Biophysical Journal, 2017, 112, 252a.	0.5	0
123	The C-Terminal Domain of Kv1.3 Interacts with KCNE4 to form Oligomeric Channels. Biophysical Journal, 2017, 112, 545a.	0.5	0
124	IKs Computational Modeling to Enforce the Investigation of D242N, a KV7.1 LQTS Mutation. , 2017, , .		0
125	PKC Activation Induces Ubiquitination-Dependent KV1.3 Endocytosis Mediated by Nedd4-2 Ubiquitin Ligase. Biophysical Journal, 2018, 114, 301a.	0.5	0
126	D242N, a KV7.1 LQTS Mutation Uncovers a KEY Residue for IKS Voltage Dependence. Biophysical Journal, 2018, 114, 307a.	0.5	0

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127	Caveolar Kv1.3 Targeting Participates in the Adipocyte Physiology. Biophysical Journal, 2019, 116, 541a.	0.5	0
128	Probing Kv1.3 Interactome with Proximity-Dependent Biotinylation. Biophysical Journal, 2019, 116, 250a.	0.5	0
129	The Cardiac Kv7.1-KCNE1 Channel Assembles at ER-PM Junctions before Translocated to the Plasma Membrane. Biophysical Journal, 2020, 118, 261a.	0.5	0
130	EGF and the potassium channel Kv1.3 are promising pharmacological targets against neuro-degenerative diseases. Journal of Neurology and Neuromedicine, 2016, 1, 14-18.	0.9	0
131	KV1.3 Interacts with a Calmodulin-Binding Tetraleucine Motif of KCNE4. Biophysical Journal, 2020, 118, 262a.	0.5	0