

Diego Alvarez de la Rosa

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77
papers

2,601
citations

27
h-index

50
g-index

88
ext. papers

2,915
ext. citations

4.5
avg, IF

5.04
L-index

#	Paper	IF	Citations
77	Structure and regulation of amiloride-sensitive sodium channels. <i>Annual Review of Physiology</i> , 2000 , 62, 573-94	23.1	279
76	The serum and glucocorticoid kinase sgk increases the abundance of epithelial sodium channels in the plasma membrane of <i>Xenopus</i> oocytes. <i>Journal of Biological Chemistry</i> , 1999 , 274, 37834-9	5.4	215
75	Functional implications of the localization and activity of acid-sensitive channels in rat peripheral nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2326-31	11.5	210
74	Distribution, subcellular localization and ontogeny of ASIC1 in the mammalian central nervous system. <i>Journal of Physiology</i> , 2003 , 546, 77-87	3.9	158
73	Effects of aldosterone on biosynthesis, traffic, and functional expression of epithelial sodium channels in A6 cells. <i>Journal of General Physiology</i> , 2002 , 119, 427-42	3.4	125
72	The crucial role of chromogranins in storage and exocytosis revealed using chromaffin cells from chromogranin A null mouse. <i>Journal of Neuroscience</i> , 2008 , 28, 3350-8	6.6	107
71	Activation of serum/glucocorticoid-induced kinase 1 (SGK1) is important to maintain skeletal muscle homeostasis and prevent atrophy. <i>EMBO Molecular Medicine</i> , 2013 , 5, 80-91	12	79
70	SAT-153 Role Of Increased Serum- And Glucocorticoid-inducible Kinase 1 (SGK1) Activity In Gluconeogenesis And Liver Metabolism During Metabolic Syndrome.. <i>Journal of the Endocrine Society</i> , 2019 , 3,	0.4	78
69	SAT-007 The Long Non-coding RNA Gas5 Selectively Regulates Corticosteroid Receptor Activity. <i>Journal of the Endocrine Society</i> , 2019 , 3,	0.4	78
68	OR12-03 Mineralocorticoid and Glucocorticoid Receptors Adopt Distinct Quaternary Structures and Can Form Heteromultimers That Affect Chromatin-Binding Profiles. <i>Journal of the Endocrine Society</i> , 2020 , 4,	0.4	78
67	Role of SGK in hormonal regulation of epithelial sodium channel in A6 cells. <i>American Journal of Physiology - Cell Physiology</i> , 2003 , 284, C404-14	5.4	77
66	Adipocyte Mineralocorticoid Receptor Activation Leads to Metabolic Syndrome and Induction of Prostaglandin D2 Synthase. <i>Hypertension</i> , 2015 , 66, 149-57	8.5	66
65	Neutrophil gelatinase-associated lipocalin is a novel mineralocorticoid target in the cardiovascular system. <i>Hypertension</i> , 2012 , 59, 966-72	8.5	63
64	Aldosterone-specific activation of cardiomyocyte mineralocorticoid receptor in vivo. <i>Hypertension</i> , 2013 , 61, 361-7	8.5	60
63	The epithelial sodium channel β subunit: new notes for an old song. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 303, F328-38	4.3	53
62	Dopamine transporter glycosylation correlates with the vulnerability of midbrain dopaminergic cells in Parkinson's disease. <i>Neurobiology of Disease</i> , 2009 , 36, 494-508	7.5	50
61	Ion transport in chondrocytes: membrane transporters involved in intracellular ion homeostasis and the regulation of cell volume, free $[Ca^{2+}]$ and pH. <i>Histology and Histopathology</i> , 1998 , 13, 893-910	1.4	44

60	Distribution and regulation of expression of serum- and glucocorticoid-induced kinase-1 in the rat kidney. <i>Journal of Physiology</i> , 2003 , 551, 455-66	3.9	43
59	Cloning and functional expression of a new epithelial sodium channel delta subunit isoform differentially expressed in neurons of the human and monkey telencephalon. <i>Journal of Neurochemistry</i> , 2007 , 102, 1304-15	6	42
58	Mechanisms of regulation of epithelial sodium channel by SGK1 in A6 cells. <i>Journal of General Physiology</i> , 2004 , 124, 395-407	3.4	42
57	Insulin-induced phosphorylation of ENaC correlates with increased sodium channel function in A6 cells. <i>American Journal of Physiology - Cell Physiology</i> , 2005 , 288, C141-7	5.4	40
56	Multiple translational isoforms give functional specificity to serum- and glucocorticoid-induced kinase 1. <i>Molecular Biology of the Cell</i> , 2007 , 18, 2072-80	3.5	36
55	Expression of ENaC and serum- and glucocorticoid-induced kinase 1 in the rat intestinal epithelium. <i>American Journal of Physiology - Renal Physiology</i> , 2004 , 286, G663-70	5.1	35
54	Sodium transport systems in human chondrocytes. II. Expression of ENaC, Na ⁺ /K ⁺ /2Cl ⁻ cotransporter and Na ⁺ /H ⁺ exchangers in healthy and arthritic chondrocytes. <i>Histology and Histopathology</i> , 1999 , 14, 1023-31	1.4	35
53	Shear force sensing of epithelial Na channel (ENaC) relies on -glycosylated asparagines in the palm and knuckle domains of ENaC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 717-726	11.5	34
52	The neuronal-specific SGK1.1 kinase regulates {delta}-epithelial Na ⁺ channel independently of PY motifs and couples it to phospholipase C signaling. <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 299, C779-90	5.4	31
51	The mineralocorticoid receptor is a constitutive nuclear factor in cardiomyocytes due to hyperactive nuclear localization signals. <i>Endocrinology</i> , 2010 , 151, 3888-99	4.8	28
50	SGK1 activates Na ⁺ -K ⁺ -ATPase in amphibian renal epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 290, C492-8	5.4	26
49	The dopamine transporter is differentially regulated after dopaminergic lesion. <i>Neurobiology of Disease</i> , 2010 , 40, 518-30	7.5	25
48	Aldosterone and Vascular Mineralocorticoid Receptors in Murine Endotoxic and Human Septic Shock. <i>Critical Care Medicine</i> , 2017 , 45, e954-e962	1.4	24
47	The diuretic torasemide does not prevent aldosterone-mediated mineralocorticoid receptor activation in cardiomyocytes. <i>PLoS ONE</i> , 2013 , 8, e73737	3.7	24
46	Differential N termini in epithelial Na ⁺ channel βsubunit isoforms modulate channel trafficking to the membrane. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 302, C868-79	5.4	20
45	ENaC in the brain—future perspectives and pharmacological implications. <i>Current Molecular Pharmacology</i> , 2013 , 6, 44-9	3.7	19
44	Prevention of neutrophil extravasation by β-adrenoceptor-mediated endothelial stabilization. <i>Journal of Immunology</i> , 2014 , 193, 3023-35	5.3	18
43	Molecular components of nitrate and nitrite efflux in yeast. <i>Eukaryotic Cell</i> , 2014 , 13, 267-78		17

42	Histone Deacetylase 6-Controlled Hsp90 Acetylation Significantly Alters Mineralocorticoid Receptor Subcellular Dynamics But Not its Transcriptional Activity. <i>Endocrinology</i> , 2016 , 157, 2515-32	4.8	17
41	The neuronal serum- and glucocorticoid-regulated kinase 1.1 reduces neuronal excitability and protects against seizures through upregulation of the M-current. <i>Journal of Neuroscience</i> , 2013 , 33, 2684-96	6.6	16
40	Phenotypic Modulation of Cultured Primary Human Aortic Vascular Smooth Muscle Cells by Uremic Serum. <i>Frontiers in Physiology</i> , 2018 , 9, 89	4.6	14
39	Structure and expression of the human Na,K-ATPase beta 2-subunit gene. <i>Gene</i> , 1998 , 208, 221-7	3.8	13
38	SGK1 activation exacerbates diet-induced obesity, metabolic syndrome and hypertension. <i>Journal of Endocrinology</i> , 2020 , 244, 149-162	4.7	13
37	Thiol-reactive compounds from garlic inhibit the epithelial sodium channel (ENaC). <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 3979-84	3.4	12
36	Chemical modulation of VLA integrin affinity in human breast cancer cells. <i>Experimental Cell Research</i> , 2007 , 313, 1121-34	4.2	12
35	Multiple mineralocorticoid response elements localized in different introns regulate intermediate conductance K ⁺ (Kcnn4) channel expression in the rat distal colon. <i>PLoS ONE</i> , 2014 , 9, e98695	3.7	11
34	Modulating Mineralocorticoid Receptor with Non-steroidal Antagonists. New Opportunities for the Development of Potent and Selective Ligands without Off-Target Side Effects. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 2629-2650	8.3	10
33	ENaC modulators and renal disease. <i>Current Molecular Pharmacology</i> , 2013 , 6, 35-43	3.7	10
32	Sodium transport systems in human chondrocytes. I. Morphological and functional expression of the Na ⁺ ,K ⁽⁺⁾ -ATPase alpha and beta subunit isoforms in healthy and arthritic chondrocytes. <i>Histology and Histopathology</i> , 1999 , 14, 1011-22	1.4	10
31	Phosphorylation of Mineralocorticoid Receptor Ligand Binding Domain Impairs Receptor Activation and Has a Dominant Negative Effect over Non-phosphorylated Receptors. <i>Journal of Biological Chemistry</i> , 2016 , 291, 19068-78	5.4	9
30	11βHSD2 SUMOylation Modulates Cortisol-Induced Mineralocorticoid Receptor Nuclear Translocation Independently of Effects on Transactivation. <i>Endocrinology</i> , 2017 , 158, 4047-4063	4.8	9
29	Expression and function of the epithelial sodium channel βsubunit in human respiratory epithelial cells in vitro. <i>Pflügers Archiv European Journal of Physiology</i> , 2015 , 467, 2257-73	4.6	9
28	Identification of permissive insertion sites for generating functional fluorescent mineralocorticoid receptors. <i>Endocrinology</i> , 2012 , 153, 3517-25	4.8	9
27	Iohexol plasma clearance, a simple and reliable method to measure renal function in conscious mice. <i>Pflügers Archiv European Journal of Physiology</i> , 2016 , 468, 1587-94	4.6	8
26	A New Role for the Aldosterone/Mineralocorticoid Receptor Pathway in the Development of Mitral Valve Prolapse. <i>Circulation Research</i> , 2020 , 127, e80-e93	15.7	7
25	Plasma membrane insertion of epithelial sodium channels occurs with dual kinetics. <i>Pflügers Archiv European Journal of Physiology</i> , 2016 , 468, 859-70	4.6	6

24	Heterogeneous nuclear ribonucleoprotein A2/B1 is a tissue-specific aldosterone target gene with prominent induction in the rat distal colon. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 304, G122-31	5.1	6
23	Regulation of Aldosterone Signaling by MicroRNAs. <i>Vitamins and Hormones</i> , 2019 , 109, 69-103	2.5	6
22	Functional effects of proinflammatory factors present in Sjögren's syndrome salivary microenvironment in an in vitro model of human salivary gland. <i>Scientific Reports</i> , 2017 , 7, 11897	4.9	5
21	Increased SGK1 activity potentiates mineralocorticoid/NaCl-induced kidney injury. <i>American Journal of Physiology - Renal Physiology</i> , 2021 , 320, F628-F643	4.3	5
20	Chromatin structure analysis of the rat Na, K-ATPase beta2 gene 5'flanking region. <i>International Journal of Biochemistry and Cell Biology</i> , 2002 , 34, 632-44	5.6	4
19	Structural and molecular determinants of mineralocorticoid receptor signaling. <i>British Journal of Pharmacology</i> , 2021 ,	8.6	4
18	Mechanical activation of epithelial Na ⁺ channel relies on an interdependent activity of the extracellular matrix and extracellular N-glycans of ENaC		4
17	SGK1.1 Reduces Kainic Acid-Induced Seizure Severity and Leads to Rapid Termination of Seizures. <i>Cerebral Cortex</i> , 2020 , 30, 3184-3197	5.1	4
16	Cellular and developmental distribution of the Na,K-ATPase beta subunit isoforms of neural tissues. <i>Annals of the New York Academy of Sciences</i> , 1997 , 834, 110-4	6.5	3
15	Hsp90 acetylation regulates mineralocorticoid receptor subcellular dynamics and aldosterone-induced promoter transactivation (1097.15). <i>FASEB Journal</i> , 2014 , 28, 1097.15	0.9	2
14	SGK1.1 limits brain damage after status epilepticus through M current-dependent and independent mechanisms. <i>Neurobiology of Disease</i> , 2021 , 153, 105317	7.5	2
13	Kv1.3 Channel Inhibition Limits Uremia-Induced Calcification in Mouse and Human Vascular Smooth Muscle.. <i>Function</i> , 2021 , 2, zqaa036	6.1	1
12	Post-Translational Modification of MR Activity 2019 ,		1
11	SGK1.1 isoform is involved in nociceptive modulation, offering a protective effect against noxious cold stimulus in a sexually dimorphic manner. <i>Pharmacology Biochemistry and Behavior</i> , 2021 , 212, 173302 ⁹	3.9	0
10	Sex-Related Signaling of Aldosterone/Mineralocorticoid Receptor Pathway in Calcific Aortic Stenosis.. <i>Hypertension</i> , 2022 , 101161HYPERTENSIONAHA12219526	8.5	0
9	411 NEUTROPHIL GELATINASE-ASSOCIATED LIPOCALIN IS A NOVEL MINERALOCORTICOID TARGET IN THE CARDIOVASCULAR SYSTEM. <i>Journal of Hypertension</i> , 2012 , 30, e121	1.9	
8	Activation of SGK1.1 Upregulates the M-current in the Presence of Epilepsy Mutations.. <i>Frontiers in Molecular Neuroscience</i> , 2021 , 14, 798261	6.1	
7	Mineralocorticoid Receptor Mediates Uremic Serum-Induced Increase in Endothelial Cell Dysfunction. <i>FASEB Journal</i> , 2018 , 32, 904.8	0.9	

- 6 Systemic Increase in Serum- and Glucocorticoid-Inducible Kinase 1 (SGK1) Activity Potentiates Mineralocorticoid/NaCl-Induced Renal but not Cardiac Fibrosis. *FASEB Journal*, **2015**, 29, 663.7 0.9
- 5 Molecular mechanisms involved in the constitutive nuclear localization of the mineralocorticoid receptor in cardiac myocytes. *FASEB Journal*, **2010**, 24, 1040.11 0.9
- 4 Differential plasma membrane abundance of epithelial sodium channel β subunit splice isoforms. *FASEB Journal*, **2011**, 25, 1041.45 0.9
- 3 Epithelial sodium channel (ENaC) plasma membrane turnover is modified in channels containing α subunits. *FASEB Journal*, **2012**, 26, 1068.8 0.9
- 2 Heterogeneous nuclear ribonucleoprotein A2/B1 is a novel aldosterone target gene in the rat distal colon epithelium. *FASEB Journal*, **2013**, 27, 1148.8 0.9
- 1 State-dependent Photocrosslinking at the BK Channel Intersubunit Interface. *Biophysical Journal*, **2020**, 118, 169a 2.9