Bernard C Rossier

List of Publications by Year
in descending order

110 papers	13,959 citations	36203 51 h-index	32761 100 g-index
117 all docs	117 docs citations	117 times ranked	6178 citing authors

#	Article	IF	Citations
1	A Pathophysiological Model for COVID-19: Critical Importance of Transepithelial Sodium Transport upon Airway Infection. Function, 2020, 1, zqaa024.	1.1	24
2	SARS-CoV-2 et le transport de sodium: une stratÃ©gie diabolique. Revue Medicale Suisse, 2020, 16, 1450-1455.	0.0	1
3	Plasma Potassium Determines NCC Abundance in Adult Kidney-Specific Î³ENaC Knockout. Journal of the American Society of Nephrology: JASN, 2018, 29, 977-990.	3.0	23
4	The Hypertension Pandemic: An Evolutionary Perspective. Physiology, 2017, 32, 112-125.	1.6	102
5	Osmoregulation during Long-Term Fasting in Lungfish and Elephant Seal: Old and New Lessons for the Nephrologist. Nephron, 2016, 134, 5-9.	0.9	11
6	Adult nephron-specific MR-deficient mice develop a severe renal PHA-1 phenotype. Pflugers Archiv European Journal of Physiology, 2016, 468, 895-908.	1.3	33
7	Severe Saltâ€“Losing Syndrome and Hyperkalemia Induced by Adult Nephronâ€“Specific Knockout of the Epithelial Sodium Channel Î±-Subunit. Journal of the American Society of Nephrology: JASN, 2016, 27, 2309-2318.	3.0	36
8	Epithelial Sodium Transport and Its Control by Aldosterone: The Story of Our Internal Environment Revisited. Physiological Reviews, 2015, 95, 297-340.	13.1	217
9	Colon-Specific Deletion of Epithelial Sodium Channel Causes Sodium Loss and Aldosterone Resistance. Journal of the American Society of Nephrology: JASN, 2014, 25, 1453-1464.	3.0	62
10	Epithelial sodium channel (ENaC) and the control of blood pressure. Current Opinion in Pharmacology, 2014, 15, 33-46.	1.7	97
11	Genetic dissection of sodium and potassium transport along the aldosteroneâ€sensitive distal nephron: Importance in the control of blood pressure and hypertension. FEBS Letters, 2013, 587, 1929-1941.	1.3	60
12	The Louisâ€Jeantet Prize 2013: Michael Stratton, Peter Hegemann and Georg Nagel. EMBO Molecular Medicine, 2013, 5, 167-168.	3.3	0
13	Pendrin gene ablation reduces ENaC surface expression and open probability. FASEB Journal, 2013, 27, .	0.2	0
14	Inactivation of the epithelial sodium channel (ENaC) in the aldosteroneâ€sensitive connecting tubule. FASEB Journal, 2013, 27, 911.7.	0.2	0
15	Rewarding excellence in biomedical research. EMBO Molecular Medicine, 2012, 4, 69-70.	3.3	0
16	Evolution of the epithelial sodium channel and the sodium pump as limiting factors of aldosterone action on sodium transport. Physiological Genomics, 2011, 43, 844-854.	1.0	39
17	Excellence in biomedical research: ubiquitin family proteins and grid cells. EMBO Molecular Medicine, 2011, 3, 67-68.	3.3	0
18	Î±ENaC-Mediated Lithium Absorption Promotes Nephrogenic Diabetes Insipidus. Journal of the American Society of Nephrology: JASN, 2011, 22, 253-261.	3.0	73

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19	Vasopressin-dependent coupling between sodium transport and water flow in a mouse cortical collecting duct cell line. Kidney International, 2011, 79, 843-852.	2.6	21
20	ENaCâ€mediated alveolar fluid clearance and lung fluid balance depend on the channelâ€activating protease 1. EMBO Molecular Medicine, 2010, 2, 26-37.	3.3	87
21	Rewarding excellence in biomedical research. EMBO Molecular Medicine, 2010, 2, 111-112.	3.3	0
22	Hypertension finds a new rhythm. Nature Medicine, 2010, 16, 27-28.	15.2	3
23	Airway Surface Liquid Volume Regulation Determines Different Airway Phenotypes in Liddle Compared with Î²ENaC-overexpressing Mice. Journal of Biological Chemistry, 2010, 285, 26945-26955.	1.6	61
24	Sodium and Potassium Balance Depends on Î±ENaC Expression in Connecting Tubule. Journal of the American Society of Nephrology: JASN, 2010, 21, 1942-1951.	3.0	88
25	In vivo nuclear translocation of mineralocorticoid and glucocorticoid receptors in rat kidney: differential effect of corticosteroids along the distal tubule. American Journal of Physiology - Renal Physiology, 2010, 299, F1473-F1485.	1.3	94
26	Thiazolidinedione-Induced Fluid Retention Is Independent of Collecting Duct Î±ENaC Activity. Journal of the American Society of Nephrology: JASN, 2009, 20, 721-729.	3.0	75
27	Amiloride blocks lithium entry through the sodium channel thereby attenuating the resultant nephrogenic diabetes insipidus. Kidney International, 2009, 76, 44-53.	2.6	104
28	Mutations in SPINT2 Cause a Syndromic Form of Congenital Sodium Diarrhea. American Journal of Human Genetics, 2009, 84, 188-196.	2.6	110
29	Activation of the Epithelial Sodium Channel (ENaC) by Serine Proteases. Annual Review of Physiology, 2009, 71, 361-379.	5.6	193
30	Lithium nephrotoxicity revisited. Nature Reviews Nephrology, 2009, 5, 270-276.	4.1	275
31	Aldosterone responsiveness of the epithelial sodium channel (ENaC) in colon is increased in a mouse model for Liddle's syndrome. Journal of Physiology, 2008, 586, 459-475.	1.3	50
32	Preferential Assembly of Epithelial Sodium Channel (ENaC) Subunits in Xenopus Oocytes. Journal of Biological Chemistry, 2008, 283, 7455-7463.	1.6	56
33	NF-Î°B Inhibits Sodium Transport via Down-regulation of SGK1 in Renal Collecting Duct Principal Cells. Journal of Biological Chemistry, 2008, 283, 25671-25681.	1.6	41
34	Epithelial Sodium Channel. Hypertension, 2008, 52, 595-600.	1.3	67
35	Pseudohypoaldosteronisms, report on a 10-patient series. Nephrology Dialysis Transplantation, 2008, 23, 1636-1641.	0.4	69
36	Mineralocorticoid Action in the Aldosterone-Sensitive Distal Nephron. , 2008, , 889-924.		17

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37	Role of Golgi apparatus and microtubules for aldosterone and vasopressinâ€"dependent regulation of ENaC activity. FASEB Journal, 2008, 22, 1201.22.	0.2	0
38	Collecting ductâ€specific gene inactivation of Î±ENaC in the mouse kidney does not attenuate rosiglitazoneâ€induced weight gain. FASEB Journal, 2008, 22, 947.14.	0.2	0
39	Increased Renal Responsiveness to Vasopressin and Enhanced V2 Receptor Signaling in RGS2â^'/â^' Mice. Journal of the American Society of Nephrology: JASN, 2007, 18, 1672-1678.	3.0	34
40	A Novel Neutrophil Elastase Inhibitor Prevents Elastase Activation and Surface Cleavage of the Epithelial Sodium Channel Expressed in Xenopus laevis Oocytes. Journal of Biological Chemistry, 2007, 282, 58-64.	1.6	88
41	Identification of corticosteroid-regulated genes in cardiomyocytes by serial analysis of gene expression. Genomics, 2007, 89, 370-377.	1.3	19
42	Î²-Liddle mutation of the epithelial sodium channel increases alveolar fluid clearance and reduces the severity of hydrostatic pulmonary oedema in mice. Journal of Physiology, 2007, 582, 777-788.	1.3	30
43	Activation of Epithelial Sodium Channels by Mouse Channel Activating Proteases (mCAP) Expressed in Xenopus Oocytes Requires Catalytic Activity of mCAP3 and mCAP2 but not mCAP1. Journal of the American Society of Nephrology: JASN, 2006, 17, 968-976.	3.0	76
44	A direct relationship between plasma aldosterone and cardiac L-type Ca2+current in mice. Journal of Physiology, 2005, 569, 153-162.	1.3	58
45	A novel TMPRSS3 missense mutation in a DFNB8/10 family prevents proteolytic activation of the protein. Human Genetics, 2005, 117, 528-535.	1.8	47
46	Renal Sodium Handling: The Role of the Epithelial Sodium Channel. Journal of the American Society of Nephrology: JASN, 2005, 16, 3151-3153.	3.0	13
47	MineralocorticoidversusGlucocorticoid Receptor Occupancy Mediating Aldosterone-Stimulated Sodium Transport in a Novel Renal Cell Line. Journal of the American Society of Nephrology: JASN, 2005, 16, 878-891.	3.0	197
48	In vitro and in vivo regulation of transepithelial lung alveolar sodium transport by serine proteases. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 288, L1099-L1109.	1.3	70
49	Progesterone Down-regulates the Open Probability of the Amiloride-sensitive Epithelial Sodium Channel via a Nedd4-2-dependent Mechanism. Journal of Biological Chemistry, 2005, 280, 38264-38270.	1.6	41
50	Vasopressin-stimulated CFTR Clâ^'currents are increased in the renal collecting duct cells of a mouse model of Liddle's syndrome. Journal of Physiology, 2005, 562, 271-284.	1.3	23
51	The Epithelial Sodium Channel: Activation by Membrane-Bound Serine Proteases. Proceedings of the American Thoracic Society, 2004, 1, 4-9.	3.5	75
52	ERK1/2 Controls Na,K-ATPase Activity and Transepithelial Sodium Transport in the Principal Cell of the Cortical Collecting Duct of the Mouse Kidney. Journal of Biological Chemistry, 2004, 279, 51002-51012.	1.6	47
53	Small proline-rich protein 1A is a gp130 pathway- and stress-inducible cardioprotective protein. EMBO Journal, 2004, 23, 4517-4525.	3.5	78
54	Mineralocorticoid Effects in the Kidney: Correlation between Î±ENaC, GILZ, and Sgk-1 mRNA Expression and Urinary Excretion of Na+ and K+. Journal of the American Society of Nephrology: JASN, 2003, 14, 1107-1115.	3.0	96

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55	Dysfunction of the Epithelial Sodium Channel Expressed in the Kidney of a Mouse Model for Liddle Syndrome. Journal of the American Society of Nephrology: JASN, 2003, 14, 2219-2228.	3.0	72
56	Mineralocorticoid regulation of epithelial Na+ channels is maintained in a mouse model of Liddle's syndrome. American Journal of Physiology - Renal Physiology, 2003, 285, F310-F318.	1.3	67
57	Collecting ductâ€“specific gene inactivation of Î±ENaC in the mouse kidney does not impair sodium and potassium balance. Journal of Clinical Investigation, 2003, 112, 554-565.	3.9	187
58	Negative regulators of sodium transport in the kidney: Key factors in understanding salt-sensitive hypertension?. Journal of Clinical Investigation, 2003, 111, 947-950.	3.9	36
59	Renal Ca2+ wasting, hyperabsorption, and reduced bone thickness in mice lacking TRPV5. Journal of Clinical Investigation, 2003, 112, 1906-1914.	3.9	406
60	Negative regulators of sodium transport in the kidney: Key factors in understanding salt-sensitive hypertension?. Journal of Clinical Investigation, 2003, 111, 947-950.	3.9	16
61	Disturbances of Na/K Balance: Pseudohypoaldosteronism Revisited. Journal of the American Society of Nephrology: JASN, 2002, 13, 2399-2414.	3.0	87
62	Synergistic Activation of ENaC by Three Membrane-bound Channel-activating Serine Proteases (mCAP1,) Tj ETQq0 0 0 rgBT /Overlock 10 Journal of General Physiology, 2002, 120, 191-201.	0.9	210
63	The transmembrane serine protease (TMPRSS3) mutated in deafness DFNB8/10 activates the epithelial sodium channel (ENaC) in vitro. Human Molecular Genetics, 2002, 11, 2829-2836.	1.4	153
64	Respective Roles of Calcitonin Receptor-like Receptor (CRLR) and Receptor Activity-modifying Proteins (RAMP) in Cell Surface Expression of CRLR/RAMP Heterodimeric Receptors. Journal of Biological Chemistry, 2002, 277, 14731-14737.	1.6	48
65	Hormonal Regulation of the Epithelial Sodium Channel ENaC. Journal of General Physiology, 2002, 120, 67-70.	0.9	58
66	Selected Contribution: Limiting Na+ transport rate in airway epithelia from Î±-ENaC transgenic mice: a model for pulmonary edema. Journal of Applied Physiology, 2002, 93, 1881-1887.	1.2	29
67	Epithelial Sodium Channel and the Control of Sodium Balance: Interaction Between Genetic and Environmental Factors. Annual Review of Physiology, 2002, 64, 877-897.	5.6	361
68	A conditional allele at the mouse channel activating protease 1 (Prss8) gene locus. Genesis, 2002, 32, 173-176.	0.8	21
69	Conditional gene targeting of theScnn1a(Î±ENaC) gene locus. Genesis, 2002, 32, 169-172.	0.8	38
70	CFTR: A chloride channel, channel regulator, or both?. Kidney International, 2002, 62, 1517-1518.	2.6	0
71	A novel mutation of the epithelial Na + channel causes type 1 pseudohypoaldosteronism. Pediatric Nephrology, 2002, 17, 804-808.	0.9	41
72	A novel vasopressin-induced transcript promotes MAP kinase activation and ENaC downregulation. EMBO Journal, 2002, 21, 5109-5117.	3.5	41

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73	Cell-Surface Expression of the Channel Activating Protease xCAP-1 Is Required for Activation of ENaC in the Xenopus Oocyte. Journal of the American Society of Nephrology: JASN, 2002, 13, 588-594.	3.0	79
74	Aldosterone induces rapid apical translocation of ENaC in early portion of renal collecting system: possible role of SGK. American Journal of Physiology - Renal Physiology, 2001, 280, F675-F682.	1.3	320
75	Functional Analyses of a N-Terminal Splice Variant of the Î± Subunit of the Epithelial Sodium Channel. Cellular Physiology and Biochemistry, 2001, 11, 115-122.	1.1	17
76	Compensatory up-regulation of angiotensin II subtype 1 receptors in Î±ENaC knockout heterozygous mice. Kidney International, 2001, 59, 2216.	2.6	2
77	Salt- And Angiotensin Ii-Dependent Variations In Amiloride-Sensitive Rectal Potential Difference In Mice. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 60-66.	0.9	38
78	Activation of the Amiloride-Sensitive Epithelial Sodium Channel by the Serine Protease mCAP1 Expressed in a Mouse Cortical Collecting Duct Cell Line. Journal of the American Society of Nephrology: JASN, 2000, 11, 828-834.	3.0	204
79	Mutational Analysis of Cysteine-rich Domains of the Epithelium Sodium Channel (ENaC). Journal of Biological Chemistry, 1999, 274, 2743-2749.	1.6	94
80	Epithelial Na+ channel subunits in rat taste cells: Localization and regulation by aldosterone. , 1999, 405, 406-420.		180
81	Cell and molecular biology of epithelial transport. Current Opinion in Nephrology and Hypertension, 1999, 8, 579-580.	1.0	2
82	Functional expression of a pseudohypoaldosteronism type I mutated epithelial Na+ channel lacking the pore-forming region of its Î± subunit. Journal of Clinical Investigation, 1999, 104, 967-974.	3.9	106
83	A Mouse Model for Liddle's Syndrome. Journal of the American Society of Nephrology: JASN, 1999, 10, 2527-2533.	3.0	128
84	Corticosteroid-Dependent Sodium Transport in a Novel Immortalized Mouse Collecting Duct Principal Cell Line. Journal of the American Society of Nephrology: JASN, 1999, 10, 923-934.	3.0	268
85	Epithelial sodium channel regulatory proteins identified by functional expression cloning. Kidney International, 1998, 54, S109-S114.	2.6	27
86	Mechanosensitivity of the Epithelial Sodium Channel (ENaC): Controversy or Pseudocontroversy?. Journal of General Physiology, 1998, 112, 95-96.	0.9	32
87	Molcular cell biology and physiology of solute transport. Current Opinion in Nephrology and Hypertension, 1998, 7, 495-496.	1.0	0
88	Cystic Fibrosis Transmembrane Conductance Regulator Inverts Protein Kinase A-mediated Regulation of Epithelial Sodium Channel Single Channel Kinetics. Journal of Biological Chemistry, 1997, 272, 14037-14040.	1.6	175
89	Role of the Epithelial Sodium Channel in Lung Liquid Clearance. Chest, 1997, 111, 113S.	0.4	18
90	A reappraisal of aldosterone effects on the kidney: new insight provided by epithelial sodium channel cloning. Current Opinion in Nephrology and Hypertension, 1997, 6, 35-39.	1.0	29

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91	Molecular mechanisms of transport protein regulation. Current Opinion in Nephrology and Hypertension, 1997, 6, 423-424.	1.0	0
92	An epithelial serine protease activates the amiloride-sensitive sodium channel. Nature, 1997, 389, 607-610.	13.7	492
93	Physiological and Pathophysiological Role of the Epithelial Sodium Channel in the Control of Blood Pressure. Kidney and Blood Pressure Research, 1996, 19, 160-165.	0.9	11
94	Mutations in subunits of the epithelial sodium channel cause salt wasting with hyperkalaemic acidosis, pseudohypoaldosteronism type 1. Nature Genetics, 1996, 12, 248-253.	9.4	752
95	Early death due to defective neonatal lung liquid clearance in Î±ENaC-deficient mice. Nature Genetics, 1996, 12, 325-328.	9.4	841
96	Expression cloning of the epithelial sodium channel. Kidney International, 1995, 48, 950-955.	2.6	41
97	Hypertension caused by a truncated epithelial sodium channel Î³ subunit: genetic heterogeneity of Liddle syndrome. Nature Genetics, 1995, 11, 76-82.	9.4	725
98	Amiloride-sensitive epithelial Na+ channel is made of three homologous subunits. Nature, 1994, 367, 463-467.	13.7	1,904
99	Liddle's syndrome: Heritable human hypertension caused by mutations in the Î² subunit of the epithelial sodium channel. Cell, 1994, 79, 407-414.	13.5	1,230
100	SCNN1, an Epithelial Cell Sodium Channel Gene in the Conserved Linkage Group on Mouse Chromosome 6 and Human Chromosome 12. Genomics, 1994, 24, 185-186.	1.3	20
101	Chapter 4 Structureâ€"Function Relationship of Na,K-ATPase: The Digitalis Receptor. Current Topics in Membranes, 1994, 41, 71-85.	0.5	6
102	Epithelial sodium channels. Current Opinion in Nephrology and Hypertension, 1994, 3, 487-496.	1.0	140
103	Epithelial sodium channel related to proteins involved in neurodegeneration. Nature, 1993, 361, 467-470.	13.7	934
104	The Epithelial Sodium Channel: Recent Developments. Cellular Physiology and Biochemistry, 1993, 3, 283-294.	1.1	20
105	The ? Subunit Modulates Potassium Activation of the Na-K Pump. Annals of the New York Academy of Sciences, 1992, 671, 113-119.	1.8	16
106	Functional expression of N-terminal truncated Î±-subunits of Na,K-ATPase inXenopus laevisoocytes. FEBS Letters, 1991, 290, 83-86.	1.3	37
107	Establishment of Renal Cell Lines Derived from S₂ Segments of the Proximal Tubule. Kidney and Blood Pressure Research, 1991, 14, 128-139.	0.9	4
108	Summary: Symposium on the Organization of Membrane Polarity in Epithelial Cells. Kidney International, 1990, 38, 1-4.	2.6	3

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109	Three ATPase Activities Have an Abnormal Developmental Time Course in Trembler Sciatic Nerves. Developmental Neuroscience, 1987, 9, 45-52.	1.0	4
110	Inhibition of the anti-natriuretic action of aldosterone by thyroid hormone in the rat. Pflugers Archiv European Journal of Physiology, 1980, 385, 91-93.	1.3	4