

Bernard C Rossier

List of Publications by Year in descending order

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110
papers

13,959
citations

34105

52
h-index

31849

101
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. <i>Function</i> , 2020, 1, zqaa024.	2.3	24
2	SARS-CoV-2 et le transport de sodium: une stratégie diabolique. <i>Revue Medicale Suisse</i> , 2020, 16, 1450-1455.	0.0	1
3	Plasma Potassium Determines NCC Abundance in Adult Kidney-Specific β ENaC Knockout. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 977-990.	6.1	23
4	The Hypertension Pandemic: An Evolutionary Perspective. <i>Physiology</i> , 2017, 32, 112-125.	3.1	102
5	Osmoregulation during Long-Term Fasting in Lungfish and Elephant Seal: Old and New Lessons for the Nephrologist. <i>Nephron</i> , 2016, 134, 5-9.	1.8	11
6	Adult nephron-specific MR-deficient mice develop a severe renal PHA-1 phenotype. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 895-908.	2.8	33
7	Severe Salt-Losing Syndrome and Hyperkalemia Induced by Adult Nephron-Specific Knockout of the Epithelial Sodium Channel β -Subunit. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 2309-2318.	6.1	36
8	Epithelial Sodium Transport and Its Control by Aldosterone: The Story of Our Internal Environment Revisited. <i>Physiological Reviews</i> , 2015, 95, 297-340.	28.8	217
9	Colon-Specific Deletion of Epithelial Sodium Channel Causes Sodium Loss and Aldosterone Resistance. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 1453-1464.	6.1	62
10	Epithelial sodium channel (ENaC) and the control of blood pressure. <i>Current Opinion in Pharmacology</i> , 2014, 15, 33-46.	3.5	97
11	Genetic dissection of sodium and potassium transport along the aldosterone-sensitive distal nephron: Importance in the control of blood pressure and hypertension. <i>FEBS Letters</i> , 2013, 587, 1929-1941.	2.8	60
12	The Louis Jeantet Prize 2013: Michael Stratton, Peter Hegemann and Georg Nagel. <i>EMBO Molecular Medicine</i> , 2013, 5, 167-168.	6.9	0
13	Pendrin gene ablation reduces ENaC surface expression and open probability. <i>FASEB Journal</i> , 2013, 27, .	0.5	0
14	Inactivation of the epithelial sodium channel (ENaC) in the aldosterone-sensitive connecting tubule. <i>FASEB Journal</i> , 2013, 27, 911.7.	0.5	0
15	Rewarding excellence in biomedical research. <i>EMBO Molecular Medicine</i> , 2012, 4, 69-70.	6.9	0
16	Evolution of the epithelial sodium channel and the sodium pump as limiting factors of aldosterone action on sodium transport. <i>Physiological Genomics</i> , 2011, 43, 844-854.	2.3	39
17	Excellence in biomedical research: ubiquitin family proteins and grid cells. <i>EMBO Molecular Medicine</i> , 2011, 3, 67-68.	6.9	0
18	β ENaC-Mediated Lithium Absorption Promotes Nephrogenic Diabetes Insipidus. <i>Journal of the American Society of Nephrology: JASN</i> , 2011, 22, 253-261.	6.1	73

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19	Vasopressin-dependent coupling between sodium transport and water flow in a mouse cortical collecting duct cell line. <i>Kidney International</i> , 2011, 79, 843-852.	5.2	21
20	ENaC-mediated alveolar fluid clearance and lung fluid balance depend on the channel-activating protease 1. <i>EMBO Molecular Medicine</i> , 2010, 2, 26-37.	6.9	87
21	Rewarding excellence in biomedical research. <i>EMBO Molecular Medicine</i> , 2010, 2, 111-112.	6.9	0
22	Hypertension finds a new rhythm. <i>Nature Medicine</i> , 2010, 16, 27-28.	30.7	3
23	Airway Surface Liquid Volume Regulation Determines Different Airway Phenotypes in Liddle Compared with β ENaC-overexpressing Mice. <i>Journal of Biological Chemistry</i> , 2010, 285, 26945-26955.	3.4	61
24	Sodium and Potassium Balance Depends on β ENaC Expression in Connecting Tubule. <i>Journal of the American Society of Nephrology: JASN</i> , 2010, 21, 1942-1951.	6.1	88
25	In vivo nuclear translocation of mineralocorticoid and glucocorticoid receptors in rat kidney: differential effect of corticosteroids along the distal tubule. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 299, F1473-F1485.	2.7	94
26	Thiazolidinedione-Induced Fluid Retention Is Independent of Collecting Duct β ENaC Activity. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 721-729.	6.1	75
27	Amiloride blocks lithium entry through the sodium channel thereby attenuating the resultant nephrogenic diabetes insipidus. <i>Kidney International</i> , 2009, 76, 44-53.	5.2	104
28	Mutations in SPINT2 Cause a Syndromic Form of Congenital Sodium Diarrhea. <i>American Journal of Human Genetics</i> , 2009, 84, 188-196.	6.2	110
29	Activation of the Epithelial Sodium Channel (ENaC) by Serine Proteases. <i>Annual Review of Physiology</i> , 2009, 71, 361-379.	13.1	193
30	Lithium nephrotoxicity revisited. <i>Nature Reviews Nephrology</i> , 2009, 5, 270-276.	9.6	275
31	Aldosterone responsiveness of the epithelial sodium channel (ENaC) in colon is increased in a mouse model for Liddle's syndrome. <i>Journal of Physiology</i> , 2008, 586, 459-475.	2.9	50
32	Preferential Assembly of Epithelial Sodium Channel (ENaC) Subunits in <i>Xenopus</i> Oocytes. <i>Journal of Biological Chemistry</i> , 2008, 283, 7455-7463.	3.4	56
33	NF- κ B Inhibits Sodium Transport via Down-regulation of SGK1 in Renal Collecting Duct Principal Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 25671-25681.	3.4	41
34	Epithelial Sodium Channel. <i>Hypertension</i> , 2008, 52, 595-600.	2.7	67
35	Pseudohypoaldosteronisms, report on a 10-patient series. <i>Nephrology Dialysis Transplantation</i> , 2008, 23, 1636-1641.	0.7	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 vasopressin-dependent regulation of ENaC activity. <i>FASEB Journal</i> , 2008, 22, 1201-22.	0.5	0
38	Collecting duct-specific gene inactivation of ENaC in the mouse kidney does not attenuate rosiglitazone-induced weight gain. <i>FASEB Journal</i> , 2008, 22, 947-14.	0.5	0
39	Increased Renal Responsiveness to Vasopressin and Enhanced V2 Receptor Signaling in RGS2 ^{-/-} Mice. <i>Journal of the American Society of Nephrology: JASN</i> , 2007, 18, 1672-1678.	6.1	34
40	A Novel Neutrophil Elastase Inhibitor Prevents Elastase Activation and Surface Cleavage of the Epithelial Sodium Channel Expressed in <i>Xenopus laevis</i> Oocytes. <i>Journal of Biological Chemistry</i> , 2007, 282, 58-64.	3.4	88
41	Identification of corticosteroid-regulated genes in cardiomyocytes by serial analysis of gene expression. <i>Genomics</i> , 2007, 89, 370-377.	2.9	19
42	β -Liddle mutation of the epithelial sodium channel increases alveolar fluid clearance and reduces the severity of hydrostatic pulmonary oedema in mice. <i>Journal of Physiology</i> , 2007, 582, 777-788.	2.9	30
43	Activation of Epithelial Sodium Channels by Mouse Channel Activating Proteases (mCAP) Expressed in <i>Xenopus</i> Oocytes Requires Catalytic Activity of mCAP3 and mCAP2 but not mCAP1. <i>Journal of the American Society of Nephrology: JASN</i> , 2006, 17, 968-976.	6.1	76
44	A direct relationship between plasma aldosterone and cardiac L-type Ca ²⁺ -current in mice. <i>Journal of Physiology</i> , 2005, 569, 153-162.	2.9	58
45	A novel Tmprss3 missense mutation in a DFNB8/10 family prevents proteolytic activation of the protein. <i>Human Genetics</i> , 2005, 117, 528-535.	3.8	47
46	Renal Sodium Handling: The Role of the Epithelial Sodium Channel. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 3151-3153.	6.1	13
47	Mineralocorticoid versus Glucocorticoid Receptor Occupancy Mediating Aldosterone-Stimulated Sodium Transport in a Novel Renal Cell Line. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 878-891.	6.1	197
48	In vitro and in vivo regulation of transepithelial lung alveolar sodium transport by serine proteases. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 288, L1099-L1109.	2.9	70
49	Progesterone Down-regulates the Open Probability of the Amiloride-sensitive Epithelial Sodium Channel via a Nedd4-2-dependent Mechanism. <i>Journal of Biological Chemistry</i> , 2005, 280, 38264-38270.	3.4	41
50	Vasopressin-stimulated CFTR Cl ⁻ currents are increased in the renal collecting duct cells of a mouse model of Liddle's syndrome. <i>Journal of Physiology</i> , 2005, 562, 271-284.	2.9	23
51	The Epithelial Sodium Channel: Activation by Membrane-Bound Serine Proteases. <i>Proceedings of the American Thoracic Society</i> , 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. <i>Journal of Biological Chemistry</i> , 2004, 279, 51002-51012.	3.4	47
53	Small proline-rich protein 1A is a gp130 pathway- and stress-inducible cardioprotective protein. <i>EMBO Journal</i> , 2004, 23, 4517-4525.	7.8	78
54	Mineralocorticoid Effects in the Kidney. <i>Journal of the American Society of Nephrology: JASN</i> , 2003, 14, 1107-1115.	6.1	96

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55	Dysfunction of the Epithelial Sodium Channel Expressed in the Kidney of a Mouse Model for Liddle Syndrome. <i>Journal of the American Society of Nephrology: JASN</i> , 2003, 14, 2219-2228.	6.1	72
56	Mineralocorticoid regulation of epithelial Na ⁺ channels is maintained in a mouse model of Liddle's syndrome. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 285, F310-F318.	2.7	67
57	Collecting duct-specific gene inactivation of ENaC in the mouse kidney does not impair sodium and potassium balance. <i>Journal of Clinical Investigation</i> , 2003, 112, 554-565.	8.2	187
58	Negative regulators of sodium transport in the kidney: Key factors in understanding salt-sensitive hypertension?. <i>Journal of Clinical Investigation</i> , 2003, 111, 947-950.	8.2	36
59	Renal Ca ²⁺ wasting, hyperabsorption, and reduced bone thickness in mice lacking TRPV5. <i>Journal of Clinical Investigation</i> , 2003, 112, 1906-1914.	8.2	406
60	Negative regulators of sodium transport in the kidney: Key factors in understanding salt-sensitive hypertension?. <i>Journal of Clinical Investigation</i> , 2003, 111, 947-950.	8.2	16
61	Disturbances of Na/K Balance: Pseudohypoaldosteronism Revisited. <i>Journal of the American Society of Nephrology: JASN</i> , 2002, 13, 2399-2414.	6.1	87
62	Synergistic Activation of ENaC by Three Membrane-bound Channel-activating Serine Proteases (mCAP1, TjETQq000rgBT/Overlock10) <i>Journal of General Physiology</i> , 2002, 120, 191-201.	1.9	210
63	The transmembrane serine protease (TMPRSS3) mutated in deafness DFNB8/10 activates the epithelial sodium channel (ENaC) in vitro. <i>Human Molecular Genetics</i> , 2002, 11, 2829-2836.	2.9	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. <i>Journal of Biological Chemistry</i> , 2002, 277, 14731-14737.	3.4	48
65	Hormonal Regulation of the Epithelial Sodium Channel ENaC. <i>Journal of General Physiology</i> , 2002, 120, 67-70.	1.9	58
66	Selected Contribution: Limiting Na ⁺ transport rate in airway epithelia from ENaC transgenic mice: a model for pulmonary edema. <i>Journal of Applied Physiology</i> , 2002, 93, 1881-1887.	2.5	29
67	Epithelial Sodium Channel and the Control of Sodium Balance: Interaction Between Genetic and Environmental Factors. <i>Annual Review of Physiology</i> , 2002, 64, 877-897.	13.1	361
68	A conditional allele at the mouse channel activating protease 1 (Prss8) gene locus. <i>Genesis</i> , 2002, 32, 173-176.	1.6	21
69	Conditional gene targeting of the Scnn1a (ENaC) gene locus. <i>Genesis</i> , 2002, 32, 169-172.	1.6	38
70	CFTR: A chloride channel, channel regulator, or both?. <i>Kidney International</i> , 2002, 62, 1517-1518.	5.2	0
71	A novel mutation of the epithelial Na ⁺ channel causes type 1 pseudohypoaldosteronism. <i>Pediatric Nephrology</i> , 2002, 17, 804-808.	1.7	41
72	A novel vasopressin-induced transcript promotes MAP kinase activation and ENaC downregulation. <i>EMBO Journal</i> , 2002, 21, 5109-5117.	7.8	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. <i>Journal of the American Society of Nephrology: JASN</i> , 2002, 13, 588-594.	6.1	79
74	Aldosterone induces rapid apical translocation of ENaC in early portion of renal collecting system: possible role of SGK. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 280, F675-F682.	2.7	320
75	Functional Analyses of a N-Terminal Splice Variant of the β Subunit of the Epithelial Sodium Channel. <i>Cellular Physiology and Biochemistry</i> , 2001, 11, 115-122.	1.6	17
76	Compensatory up-regulation of angiotensin II subtype 1 receptors in β ENaC knockout heterozygous mice. <i>Kidney International</i> , 2001, 59, 2216.	5.2	2
77	Salt- And Angiotensin II-Dependent Variations In Amiloride-Sensitive Rectal Potential Difference In Mice. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2000, 27, 60-66.	1.9	38
78	Activation of the Amiloride-Sensitive Epithelial Sodium Channel by the Serine Protease mCAP1 Expressed in a Mouse Cortical Collecting Duct Cell Line. <i>Journal of the American Society of Nephrology: JASN</i> , 2000, 11, 828-834.	6.1	204
79	Mutational Analysis of Cysteine-rich Domains of the Epithelium Sodium Channel (ENaC). <i>Journal of Biological Chemistry</i> , 1999, 274, 2743-2749.	3.4	94
80	Epithelial Na ⁺ channel subunits in rat taste cells: Localization and regulation by aldosterone. <i>Journal of Comparative Neurology</i> , 1999, 405, 406-420.	1.6	180
81	Cell and molecular biology of epithelial transport. <i>Current Opinion in Nephrology and Hypertension</i> , 1999, 8, 579-580.	2.0	2
82	Functional expression of a pseudohypoaldosteronism type I mutated epithelial Na ⁺ channel lacking the pore-forming region of its β subunit. <i>Journal of Clinical Investigation</i> , 1999, 104, 967-974.	8.2	106
83	A Mouse Model for Liddle's Syndrome. <i>Journal of the American Society of Nephrology: JASN</i> , 1999, 10, 2527-2533.	6.1	128
84	Corticosteroid-Dependent Sodium Transport in a Novel Immortalized Mouse Collecting Duct Principal Cell Line. <i>Journal of the American Society of Nephrology: JASN</i> , 1999, 10, 923-934.	6.1	268
85	Epithelial sodium channel regulatory proteins identified by functional expression cloning. <i>Kidney International</i> , 1998, 54, S109-S114.	5.2	27
86	Mechanosensitivity of the Epithelial Sodium Channel (ENaC): Controversy or Pseudocontroversy?. <i>Journal of General Physiology</i> , 1998, 112, 95-96.	1.9	32
87	Molecular cell biology and physiology of solute transport. <i>Current Opinion in Nephrology and Hypertension</i> , 1998, 7, 495-496.	2.0	0
88	Cystic Fibrosis Transmembrane Conductance Regulator Inverts Protein Kinase A-mediated Regulation of Epithelial Sodium Channel Single Channel Kinetics. <i>Journal of Biological Chemistry</i> , 1997, 272, 14037-14040.	3.4	175
89	Role of the Epithelial Sodium Channel in Lung Liquid Clearance. <i>Chest</i> , 1997, 111, 113S.	0.8	18
90	A reappraisal of aldosterone effects on the kidney: new insight provided by epithelial sodium channel cloning. <i>Current Opinion in Nephrology and Hypertension</i> , 1997, 6, 35-39.	2.0	29

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91	Molecular mechanisms of transport protein regulation. <i>Current Opinion in Nephrology and Hypertension</i> , 1997, 6, 423-424.	2.0	0
92	An epithelial serine protease activates the amiloride-sensitive sodium channel. <i>Nature</i> , 1997, 389, 607-610.	27.8	492
93	Physiological and Pathophysiological Role of the Epithelial Sodium Channel in the Control of Blood Pressure. <i>Kidney and Blood Pressure Research</i> , 1996, 19, 160-165.	2.0	11
94	Mutations in subunits of the epithelial sodium channel cause salt wasting with hyperkalaemic acidosis, pseudohypoaldosteronism type 1. <i>Nature Genetics</i> , 1996, 12, 248-253.	21.4	752
95	Early death due to defective neonatal lung liquid clearance in β ENaC-deficient mice. <i>Nature Genetics</i> , 1996, 12, 325-328.	21.4	841
96	Expression cloning of the epithelial sodium channel. <i>Kidney International</i> , 1995, 48, 950-955.	5.2	41
97	Hypertension caused by a truncated epithelial sodium channel β 3 subunit: genetic heterogeneity of Liddle syndrome. <i>Nature Genetics</i> , 1995, 11, 76-82.	21.4	725
98	Amiloride-sensitive epithelial Na ⁺ channel is made of three homologous subunits. <i>Nature</i> , 1994, 367, 463-467.	27.8	1,904
99	Liddle's syndrome: Heritable human hypertension caused by mutations in the β 2 subunit of the epithelial sodium channel. <i>Cell</i> , 1994, 79, 407-414.	28.9	1,230
100	SCNN1, an Epithelial Cell Sodium Channel Gene in the Conserved Linkage Group on Mouse Chromosome 6 and Human Chromosome 12. <i>Genomics</i> , 1994, 24, 185-186.	2.9	20
101	Chapter 4 Structure-Function Relationship of Na,K-ATPase: The Digitalis Receptor. <i>Current Topics in Membranes</i> , 1994, 41, 71-85.	0.9	6
102	Epithelial sodium channels. <i>Current Opinion in Nephrology and Hypertension</i> , 1994, 3, 487-496.	2.0	140
103	Epithelial sodium channel related to proteins involved in neurodegeneration. <i>Nature</i> , 1993, 361, 467-470.	27.8	934
104	The Epithelial Sodium Channel: Recent Developments. <i>Cellular Physiology and Biochemistry</i> , 1993, 3, 283-294.	1.6	20
105	The β Subunit Modulates Potassium Activation of the Na-K Pump. <i>Annals of the New York Academy of Sciences</i> , 1992, 671, 113-119.	3.8	16
106	Functional expression of N-terminal truncated β -subunits of Na,K-ATPase in <i>Xenopus laevis</i> oocytes. <i>FEBS Letters</i> , 1991, 290, 83-86.	2.8	37
107	Establishment of Renal Cell Lines Derived from S<sub>2</sub> Segments of the Proximal Tubule. <i>Kidney and Blood Pressure Research</i> , 1991, 14, 128-139.	2.0	4
108	Summary: Symposium on the Organization of Membrane Polarity in Epithelial Cells. <i>Kidney International</i> , 1990, 38, 1-4.	5.2	3

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109	Three ATPase Activities Have an Abnormal Developmental Time Course in Trembler Sciatic Nerves. <i>Developmental Neuroscience</i> , 1987, 9, 45-52.	2.0	4
110	Inhibition of the anti-natriuretic action of aldosterone by thyroid hormone in the rat. Pflugers <i>Archiv European Journal of Physiology</i> , 1980, 385, 91-93.	2.8	4