Olivier Staub

List of Publications by Year
in descending order

85 papers	5,858 citations	61984 43 h-index	74163 75 g-index
87 all docs	87 docs citations	87 times ranked	4723 citing authors

#	Article	IF	Citations
1	Defective regulation of the epithelial Na+ channel by Nedd4 in Liddle's syndrome. Journal of Clinical Investigation, 1999, 103, 667-673.	8.2	331
2	A novel mouse Nedd4 protein suppresses the activity of the epithelial Na⁺channel. FASEB Journal, 2001, 15, 204-214.	0.5	268
3	Functional expression of the epithelial Ca2+ channels (TRPV5 and TRPV6) requires association of the S100A10-annexin 2 complex. EMBO Journal, 2003, 22, 1478-1487.	7.8	253
4	Cardiac Voltage-Gated Sodium Channel Na v 1.5 Is Regulated by Nedd4-2 Mediated Ubiquitination. Circulation Research, 2004, 95, 284-291.	4.5	196
5	Role of Ubiquitylation in Cellular Membrane Transport. Physiological Reviews, 2006, 86, 669-707.	28.8	193
6	Regulation of the epithelial Na+ channel by Nedd4 and ubiquitination. Kidney International, 2000, 57, 809-815.	5.2	190
7	The C2 Domain of the Ubiquitin Protein Ligase Nedd4 Mediates Ca2+-dependent Plasma Membrane Localization. Journal of Biological Chemistry, 1997, 272, 32329-32336.	3.4	176
8	Concerted action of ENaC, Nedd4â€“2, and Sgk1 in transepithelial Na⁺transport. American Journal of Physiology - Renal Physiology, 2002, 283, F377-F387.	2.7	168
9	Serum- and Glucocorticoid-Regulated Kinase 1 Regulates Ubiquitin Ligase Neural Precursor Cell-Expressed, Developmentally Down-Regulated Protein 4-2 by Inducing Interaction with 14-3-3. Molecular Endocrinology, 2005, 19, 3073-3084.	3.7	167
10	Nedd4-2 Modulates Renal Na+-Clâˆ’ Cotransporter via the Aldosterone-SGK1-Nedd4-2 Pathway. Journal of the American Society of Nephrology: JASN, 2011, 22, 1707-1719.	6.1	144
11	Early Aldosterone-Induced Gene Product Regulates the Epithelial Sodium Channel by Deubiquitylation. Journal of the American Society of Nephrology: JASN, 2007, 18, 1084-1092.	6.1	137
12	Salt-sensitive hypertension and cardiac hypertrophy in mice deficient in the ubiquitin ligase Nedd4-2. American Journal of Physiology - Renal Physiology, 2008, 295, F462-F470.	2.7	136
13	SGK KINASES AND THEIR ROLE IN EPITHELIAL TRANSPORT. Annual Review of Physiology, 2006, 68, 461-490.	13.1	134
14	Nedd4.1-mediated ubiquitination and subsequent recruitment of Tsg101 ensure HTLV-1 Gag trafficking towards the multivesicular body pathway prior to virus budding. Journal of Cell Science, 2004, 117, 2357-2367.	2.0	133
15	SGK1: Aldosterone-Induced Relay of Na⁺ Transport Regulation in Distal Kidney Nephron Cells. Cellular Physiology and Biochemistry, 2003, 13, 21-028.	1.6	123
16	Molecular determinants of voltage-gated sodium channel regulation by the Nedd4/Nedd4-like proteins. American Journal of Physiology - Cell Physiology, 2005, 288, C692-C701.	4.6	121
17	Renal tubular NEDD4-2 deficiency causes NCC-mediated salt-dependent hypertension. Journal of Clinical Investigation, 2013, 123, 657-65.	8.2	120
18	Distinct characteristics of two human Nedd4 proteins with respect to epithelial Na⁺channel regulation. American Journal of Physiology - Renal Physiology, 2001, 281, F469-F477.	2.7	118

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19	The KCNQ1 potassium channel is down-regulated by ubiquitylating enzymes of the Nedd4/Nedd4-like family. Cardiovascular Research, 2007, 74, 64-74.	3.8	116
20	Aldosterone Paradox: Differential Regulation of Ion Transport in Distal Nephron. Physiology, 2011, 26, 115-123.	3.1	111
21	Regulation of the cardiac voltage-gated Na+ channel (H1) by the ubiquitin-protein ligase Nedd4. FEBS Letters, 2000, 466, 377-380.	2.8	105
22	mGrb10 Interacts with Nedd4. Journal of Biological Chemistry, 1999, 274, 24094-24099.	3.4	93
23	Role of the ubiquitin system in regulating ion transport. Pflugers Archiv European Journal of Physiology, 2011, 461, 1-21.	2.8	92
24	WW domains. Structure, 1996, 4, 495-499.	3.3	90
25	Extracellular K⁺ rapidly controls NaCl cotransporter phosphorylation in the native distal convoluted tubule by Cl^{âˆ'}â€dependent and independent mechanisms. Journal of Physiology, 2016, 594, 6319-6331.	2.9	90
26	Regulation of Nedd4-2 self-ubiquitination and stability by a PY motif located within its HECT-domain. Biochemical Journal, 2008, 415, 155-163.	3.7	87
27	Aldosterone-Induced Serum and Glucocorticoid-Induced Kinase 1 Expression Is Accompanied by Nedd4-2 Phosphorylation and Increased Na+ Transport in Cortical Collecting Duct Cells. Journal of the American Society of Nephrology: JASN, 2005, 16, 2279-2287.	6.1	86
28	Ubiquitylation of Ion Channels. Physiology, 2005, 20, 398-407.	3.1	83
29	HECT E3s and human disease. BMC Biochemistry, 2007, 8, S6.	4.4	81
30	Inducible kidney-specific Sgk1 knockout mice show a salt-losing phenotype. American Journal of Physiology - Renal Physiology, 2012, 302, F977-F985.	2.7	80
31	A tyrosine-based sorting signal is involved in connexin43 stability and gap junction turnover. Journal of Cell Science, 2003, 116, 2213-2222.	2.0	78
32	Cardiac sodium channel Nav1.5 interacts with and is regulated by the protein tyrosine phosphatase PTPH1. Biochemical and Biophysical Research Communications, 2006, 348, 1455-1462.	2.1	75
33	Nedd4-2 and the Regulation of Epithelial Sodium Transport. Frontiers in Physiology, 2012, 3, 212.	2.8	73
34	The role of Nedd4/Nedd4-like dependant ubiquitylation in epithelial transport processes. Pflugers Archiv European Journal of Physiology, 2003, 446, 334-338.	2.8	72
35	The Adaptor Complex 2 Directly Interacts with the Î±1b-Adrenergic Receptor and Plays a Role in Receptor Endocytosis. Journal of Biological Chemistry, 2003, 278, 19331-19340.	3.4	68
36	Deubiquitylation Regulates Activation and Proteolytic Cleavage of ENaC. Journal of the American Society of Nephrology: JASN, 2008, 19, 2170-2180.	6.1	65

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37	Vasopressin-inducible ubiquitin-specific protease 10 increases ENaC cell surface expression by deubiquitylating and stabilizing sorting nexin 3. American Journal of Physiology - Renal Physiology, 2008, 295, F889-F900.	2.7	62
38	Impact of Nedd4 Proteins and Serum and Glucocorticoid-Induced Kinases on Epithelial Na+ Transport in the Distal Nephron. Journal of the American Society of Nephrology: JASN, 2005, 16, 3167-3174.	6.1	60
39	Dietary Sodium Intake Regulates the Ubiquitin-Protein Ligase Nedd4-2 in the Renal Collecting System. Journal of the American Society of Nephrology: JASN, 2006, 17, 1264-1274.	6.1	60
40	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.	2.8	60
41	Alternatively spliced proline-rich cassettes link WNK1 to aldosterone action. Journal of Clinical Investigation, 2015, 125, 3433-3448.	8.2	58
42	Endoplasmic Reticulum Quality Control of Oligomeric Membrane Proteins: Topogenic Determinants Involved in the Degradation of the Unassembled Na,K-ATPase Î± Subunit and in Its Stabilization by Î² Subunit Assembly. Molecular Biology of the Cell, 2000, 11, 1657-1672.	2.1	56
43	Mineralocorticoid receptor degradation is promoted by Hsp90 inhibition and the ubiquitin-protein ligase CHIP. American Journal of Physiology - Renal Physiology, 2010, 299, F1462-F1472.	2.7	48
44	Ubiquitin-specific protease 2-45 (Usp2-45) binds to epithelial Na⁺ channel (ENaC)-ubiquitylating enzyme Nedd4-2. American Journal of Physiology - Renal Physiology, 2011, 301, F189-F196.	2.7	43
45	Differential ubiquitylation of the mineralocorticoid receptor is regulated by phosphorylation. FASEB Journal, 2012, 26, 4373-4382.	0.5	41
46	NEDD4-2 and salt-sensitive hypertension. Current Opinion in Nephrology and Hypertension, 2015, 24, 111-116.	2.0	38
47	Function and Regulation of the Epithelial Na⁺Channel<scp>ENaC</scp>. , 2021, 11, 2017-2045.		36
48	Participation of the Ubiquitin-Conjugating Enzyme UBE2E3 in Nedd4-2-Dependent Regulation of the Epithelial Na + Channel. Molecular and Cellular Biology, 2004, 24, 2397-2409.	2.3	35
49	A naturally occurring human Nedd4â€“2 variant displays impaired ENaC regulation in Xenopus laevis oocytes. American Journal of Physiology - Renal Physiology, 2004, 287, F550-F561.	2.7	35
50	Deubiquitylating enzyme USP2 counteracts Nedd4-2â€“mediated downregulation of KCNQ1 potassium channels. Heart Rhythm, 2012, 9, 440-448.	0.7	34
51	Mutation affecting the conserved acidic WNK1 motif causes inherited hyperkalemic hyperchloremic acidosis. Journal of Clinical Investigation, 2020, 130, 6379-6394.	8.2	32
52	Renal tubular SGK1 deficiency causes impaired K⁺ excretion via loss of regulation of NEDD4-2/WNK1 and ENaC. American Journal of Physiology - Renal Physiology, 2016, 311, F330-F342.	2.7	30
53	Intracellular Ubiquitylation of the Epithelial Na+ Channel Controls Extracellular Proteolytic Channel Activation via Conformational Change. Journal of Biological Chemistry, 2011, 286, 2416-2424.	3.4	28
54	Mice carrying ubiquitin-specific protease 2 (<i>Usp2</i>) gene inactivation maintain normal sodium balance and blood pressure. American Journal of Physiology - Renal Physiology, 2013, 305, F21-F30.	2.7	28

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55	AQP2 Abundance is Regulated by the E3-Ligase CHIP Via HSP70. Cellular Physiology and Biochemistry, 2017, 44, 515-531.	1.6	28
56	Liddle's syndrome: A novel mouse Nedd4 isoform regulates the activity of the epithelial Na+ channel. Kidney International, 2001, 60, 466-471.	5.2	27
57	Kir5.1 regulates Nedd4-2-mediated ubiquitination of Kir4.1 in distal nephron. American Journal of Physiology - Renal Physiology, 2018, 315, F986-F996.	2.7	27
58	Ubiquitylation and Control of Renal Na+ Balance and Blood Pressure. Physiology, 2014, 29, 16-26.	3.1	26
59	Renal Tubular Ubiquitin-Protein Ligase NEDD4-2 Is Required for Renal Adaptation during Long-Term Potassium Depletion. Journal of the American Society of Nephrology: JASN, 2017, 28, 2431-2442.	6.1	26
60	USP2-45 Is a Circadian Clock Output Effector Regulating Calcium Absorption at the Post-Translational Level. PLoS ONE, 2016, 11, e0145155.	2.5	25
61	Liddle's syndrome caused by a novel missense mutation (P617L) of the epithelial sodium channel Î² subunit. Journal of Hypertension, 2008, 26, 921-927.	0.5	24
62	WNK3 abrogates the NEDD4-2-mediated inhibition of the renal Na⁺-Cl^{â^’}cotransporter. American Journal of Physiology - Renal Physiology, 2014, 307, F275-F286.	2.7	23
63	The Role of Intercalated Cell Nedd4â€“2 in BP Regulation, Ion Transport, and Transporter Expression. Journal of the American Society of Nephrology: JASN, 2018, 29, 1706-1719.	6.1	21
64	Regulation of ion transport by proteinâ€“protein interaction domains. Current Opinion in Nephrology and Hypertension, 1997, 6, 447-454.	2.0	19
65	Stimulation of ENaC Activity by Rosiglitazone is PPARÎ³-Dependent and Correlates with SGK1 Expression Increase. Journal of Membrane Biology, 2010, 236, 259-270.	2.1	18
66	Renal Tubule Nedd4-2 Deficiency Stimulates Kir4.1/Kir5.1 and Thiazide-Sensitive NaCl Cotransporter in Distal Convoluted Tubule. Journal of the American Society of Nephrology: JASN, 2020, 31, 1226-1242.	6.1	18
67	Mineralocorticoid Receptor Antagonists Cause Natriuresis in the Absence of Aldosterone. Hypertension, 2022, 79, 1423-1434.	2.7	18
68	Functional assessment of sodium chloride cotransporter NCC mutants in polarized mammalian epithelial cells. American Journal of Physiology - Renal Physiology, 2017, 313, F495-F504.	2.7	16
69	The thiazide sensitive sodium chloride co-transporter NCC is modulated by site-specific ubiquitylation. Scientific Reports, 2017, 7, 12981.	3.3	16
70	Relation between Î± , Î² , and Î³ Human Amilorideâ€“ Sensitive Epithelial Na+Channel mRNA Levels and Nasal Epithelial Potential Difference in Healthy Men. American Journal of Respiratory and Critical Care Medicine, 1998, 158, 1213-1220.	5.6	15
71	Mg²⁺restriction downregulates NCC through NEDD4-2 and prevents its activation by hypokalemia. American Journal of Physiology - Renal Physiology, 2019, 317, F825-F838.	2.7	15
72	Ubiquitylation and Isgylation: Overlapping Enzymatic Cascades Do the Job. Science Signaling, 2004, 2004, pe43.	3.6	13

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73	USP2-45 Represses Aldosterone Mediated Responses by Decreasing Mineralocorticoid Receptor Availability. Cellular Physiology and Biochemistry, 2013, 31, 462-472.	1.6	11
74	SIRT7 modulates the stability and activity of the renal Kâ€Cl cotransporter KCC4 through deacetylation. EMBO Reports, 2021, 22, e50766.	4.5	11
75	Lack of Renal Tubular Glucocorticoid Receptor Decreases the Thiazide-Sensitive Na+/Clâ€" Cotransporter NCC and Transiently Affects Sodium Handling. Frontiers in Physiology, 2019, 10, 989.	2.8	8
76	Mineralocorticoid Action in the Aldosterone Sensitive Distal Nephron. , 2013, , 1181-1211.		6
77	The serineâ€threonine kinase PIM3 is an aldosteroneâ€regulated protein in the distal nephron. Physiological Reports, 2019, 7, e14177.	1.7	3
78	Expression of claudin-8 is induced by aldosterone in renal collecting duct principal cells. American Journal of Physiology - Renal Physiology, 2021, 321, F645-F655.	2.7	3
79	Does the early aldosteroneâ€induced SGK1 play a role in early Kaliuresis?. Physiological Reports, 2022, 10, e15188.	1.7	3
80	Nedd4l null mice are defective in downâ€regulating ENaC and have saltâ€sensitive hypertension. FASEB Journal, 2007, 21, A881.	0.5	0
81	Loss of renal Nedd4â€2 in adult mice leads to PHAII compensated by ENaC downâ€regulation and ROMK upâ€regulation. FASEB Journal, 2012, 26, 1067.2.	0.5	0
82	WNK3 Prevents the Nedd4â€2 Inhibition of the Renal Naâ€Cl Cotransporter (NCC). FASEB Journal, 2012, 26, 867.34.	0.5	0
83	The SGK1/NEDD4â€2 pathway is crucial in regulating renal potassium secretion. FASEB Journal, 2015, 29, 666.5.	0.5	0
84	Generation of a tetracyclineâ€inducible NKCC2 expressing MDCKI cell line. FASEB Journal, 2019, 33, 751.6.	0.5	0
85	HECT Ubiquitin-Protein Ligases in Human Disease. , 0, , 77-105.		0