Daniela Rotin

List of Publications by Year in Descending Order

86 papers	6,428 citations	48 h-index	80 g-index
90 ext. papers	7,115 ext. citations	9 avg, IF	5.66 L-index

#	Paper	IF	Citations
86	Inhibition of eEF2K synergizes with glutaminase inhibitors or 4EBP1 depletion to suppress growth of triple-negative breast cancer cells. *Scientific Reports*, **2021**, 11, 9181	4.9	2
85	Function and Regulation of the Epithelial Na Channel ENaC. *Comprehensive Physiology*, **2021**, 11, 2017-2045	7.7	7
84	Split Chloramphenicol Acetyl-Transferase Assay Reveals Self-Ubiquitylation-Dependent Regulation of UBE3B. *Journal of Molecular Biology*, **2021**, 433, 167276	6.5	
83	Conditional deletion of Nedd4-2 in lung epithelial cells causes progressive pulmonary fibrosis in adult mice. *Nature Communications*, **2020**, 11, 2012	17.4	26
82	Phosphorylation of the Chaperone-Like HspB5 Rescues Trafficking and Function of F508del-CFTR. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
81	The Ion Transporter NKCC1 Links Cell Volume to Cell Mass Regulation by Suppressing mTORC1. *Cell Reports*, **2019**, 27, 1886-1896.e6	10.6	15
80	Regulation of SH3PX1 by dNedd4-long at the neuromuscular junction. *Journal of Biological Chemistry*, **2019**, 294, 1739-1752	5.4	1
79	Dynamin inhibitors block activation of mTORC1 by amino acids independently of dynamin. *Journal of Cell Science*, **2018**, 131,	5.3	18
78	Ubiquitylation-dependent oligomerization regulates activity of Nedd4 ligases. *EMBO Journal*, **2017**, 36, 425-440	13	37
77	The Ubiquitin Ligase Nedd4L Regulates the Na/K/2Cl Co-transporter NKCC1/SLC12A2 in the Colon. *Journal of Biological Chemistry*, **2017**, 292, 3137-3145	5.4	11
76	Inhaled ENaC antisense oligonucleotide ameliorates cystic fibrosis-like lung disease in mice. *Journal of Cystic Fibrosis*, **2017**, 16, 671-680	4.1	52
75	Drosophila Nedd4-long reduces Amphiphysin levels in muscles and leads to impaired T-tubule formation. *Molecular Biology of the Cell*, **2016**, 27, 907-18	3.5	3
74	System-Wide Modulation of HECT E3 Ligases with Selective Ubiquitin Variant Probes. *Molecular Cell* , **2016**, 62, 121-36	17.6	110
73	RNA Interference Screen to Identify Kinases That Suppress Rescue of F508-CFTR. *Molecular and Cellular Proteomics*, **2015**, 14, 1569-83	7.6	20
72	Ibuprofen rescues mutant cystic fibrosis transmembrane conductance regulator trafficking. *Journal of Cystic Fibrosis*, **2015**, 14, 16-25	4.1	36
71	LAPTM4b recruits the LAT1-4F2hc Leu transporter to lysosomes and promotes mTORC1 activation. *Nature Communications*, **2015**, 6, 7250	17.4	118
70	Rsp5/Nedd4 is the main ubiquitin ligase that targets cytosolic misfolded proteins following heat stress. *Nature Cell Biology*, **2014**, 16, 1227-37	23.4	125

69	Ubiquitin E3 ligase Nedd4-1 acts as a downstream target of PI3K/PTEN-mTORC1 signaling to promote neurite growth. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 13205-10	11.5	51
68	Protein tyrosine phosphatase targets apical junction complex proteins in the intestine and regulates epithelial permeability. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 693-8	11.5	48
67	Tyrosine phosphorylation of NEDD4 activates its ubiquitin ligase activity. *Science Signaling*, **2014**, 7, ra958.8		53
66	A strategy for modulation of enzymes in the ubiquitin system. *Science*, **2013**, 339, 590-5	33.3	199
65	Ubiquitylation-dependent localization of PLK1 in mitosis. *Nature Cell Biology*, **2013**, 15, 430-9	23.4	70
64	Nedd4-2 and the regulation of epithelial sodium transport. *Frontiers in Physiology*, **2012**, 3, 212	4.6	52
63	LAPTM5 protein is a positive regulator of proinflammatory signaling pathways in macrophages. *Journal of Biological Chemistry*, **2012**, 287, 27691-702	5.4	34
62	Use of kinase inhibitors to correct F508-CFTR function. *Molecular and Cellular Proteomics*, **2012**, 11, 745-57	7.6	25
61	The ubiquitin ligase Nedd4-1 participates in denervation-induced skeletal muscle atrophy in mice. *PLoS ONE*, **2012**, 7, e46427	3.7	52
60	Deletion of the ubiquitin ligase Nedd4L in lung epithelia causes cystic fibrosis-like disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 3216-21	11.5	77
59	A role for the ubiquitin ligase Nedd4 in membrane sorting of LAPTM4 proteins. *PLoS ONE*, **2011**, 6, e27478	3.7	29
58	Role of the ubiquitin system in regulating ion transport. *Pflugers Archiv European Journal of Physiology*, **2011**, 461, 1-21	4.6	81
57	Nedd4-1 binds and ubiquitylates activated FGFR1 to control its endocytosis and function. *EMBO Journal*, **2011**, 30, 3259-73	13	53
56	A splice isoform of DNedd4, DNedd4-long, negatively regulates neuromuscular synaptogenesis and viability in Drosophila. *PLoS ONE*, **2011**, 6, e27007	3.7	10
55	Use of proteome arrays to globally identify substrates for E3 ubiquitin ligases. *Methods in Molecular Biology*, **2011**, 759, 215-24	1.4	7
54	Correction of the Delta phe508 cystic fibrosis transmembrane conductance regulator trafficking defect by the bioavailable compound glafenine. *Molecular Pharmacology*, **2010**, 77, 922-30	4.3	85
53	The ubiquitin ligase Nedd4-1 is required for heart development and is a suppressor of thrombospondin-1. *Journal of Biological Chemistry*, **2010**, 285, 6770-80	5.4	51
52	Comparison of substrate specificity of the ubiquitin ligases Nedd4 and Nedd4-2 using proteome arrays. *Molecular Systems Biology*, **2009**, 5, 333	12.2	100

51	High-content functional screen to identify proteins that correct F508del-CFTR function. *Molecular and Cellular Proteomics*, **2009**, 8, 780-90	7.6	40
50	Physiological functions of the HECT family of ubiquitin ligases. *Nature Reviews Molecular Cell Biology*, **2009**, 10, 398-409	48.7	736
49	Functional rescue of DeltaF508-CFTR by peptides designed to mimic sorting motifs. *Chemistry and Biology*, **2009**, 16, 520-30		18
48	The ubiquitin ligase Nedd4-1 is dispensable for the regulation of PTEN stability and localization. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 8585-90	11.5	137
47	Apical junction complex proteins and ulcerative colitis: a focus on the PTPRS gene. *Expert Review of Molecular Diagnostics*, **2008**, 8, 465-77	3.8	7
46	ENaC and its regulatory proteins as drug targets for blood pressure control. *Current Drug Targets*, **2008**, 9, 709-16	3	35
45	Regulation of Nedd4-2 self-ubiquitination and stability by a PY motif located within its HECT-domain. *Biochemical Journal*, **2008**, 415, 155-63	3.8	75
44	Role of the UPS in Liddle syndrome. *BMC Biochemistry*, **2008**, 9 Suppl 1, S5	4.8	22
43	The PY motif of ENaC, mutated in Liddle syndrome, regulates channel internalization, sorting and mobilization from subapical pool. *Traffic*, **2007**, 8, 1246-64	5.7	92
42	Protein-tyrosine phosphatase sigma is associated with ulcerative colitis. *Current Biology*, **2007**, 17, 1212-8	8.3	46
41	Regulation of Commissureless by the ubiquitin ligase DNedd4 is required for neuromuscular synaptogenesis in Drosophila melanogaster. *Molecular and Cellular Biology*, **2007**, 27, 481-96	4.8	29
40	N-cadherin is an in vivo substrate for protein tyrosine phosphatase sigma (PTPsigma) and participates in PTPsigma-mediated inhibition of axon growth. *Molecular and Cellular Biology*, **2007**, 27, 208-19	4.8	50
39	Ubiquitination screen using protein microarrays for comprehensive identification of Rsp5 substrates in yeast. *Molecular Systems Biology*, **2007**, 3, 116	12.2	126
38	Autoinhibition of the HECT-type ubiquitin ligase Smurf2 through its C2 domain. *Cell*, **2007**, 130, 651-62	56.2	206
37	Structural determinants for high-affinity binding in a Nedd4 WW3* domain-Comm PY motif complex. *Structure*, **2006**, 14, 543-53	5.2	67
36	Role of ubiquitylation in cellular membrane transport. *Physiological Reviews*, **2006**, 86, 669-707	47.9	180
35	The guanine nucleotide exchange factor CNrasGEF regulates melanogenesis and cell survival in melanoma cells. *Journal of Biological Chemistry*, **2006**, 281, 121-8	5.4	25
34	Transport of LAPTM5 to lysosomes requires association with the ubiquitin ligase Nedd4, but not LAPTM5 ubiquitination. *Journal of Cell Biology*, **2006**, 175, 631-45	7.3	77

33	Problems with co-funding in Canada. *Science*, **2005**, 308, 1867	33.3	5
32	A high throughput screen to identify substrates for the ubiquitin ligase Rsp5. *Journal of Biological Chemistry*, **2005**, 280, 29470-8	5.4	35
31	Molecular determinants of voltage-gated sodium channel regulation by the Nedd4/Nedd4-like proteins. *American Journal of Physiology - Cell Physiology*, **2005**, 288, C692-701	5.4	101
30	Affinity and specificity of interactions between Nedd4 isoforms and the epithelial Na+ channel. *Journal of Biological Chemistry*, **2003**, 278, 20019-28	5.4	74
29	The Grb10/Nedd4 complex regulates ligand-induced ubiquitination and stability of the insulin-like growth factor I receptor. *Molecular and Cellular Biology*, **2003**, 23, 3363-72	4.8	209
28	Regulation of the epithelial Na+ channel by cytosolic ATP. *Journal of Biological Chemistry*, **2003**, 278, 38276-86	5.4	13
27	Protein tyrosine phosphatase sigma-deficient mice show aberrant cytoarchitecture and structural abnormalities in the central nervous system. *Journal of Neuroscience Research*, **2002**, 70, 24-35	4.4	55
26	Pituitary, pancreatic and gut neuroendocrine defects in protein tyrosine phosphatase-sigma-deficient mice. *Molecular Endocrinology*, **2002**, 16, 155-69		28
25	Direct binding of the beta1 adrenergic receptor to the cyclic AMP-dependent guanine nucleotide exchange factor CNrasGEF leads to Ras activation. *Molecular and Cellular Biology*, **2002**, 22, 7942-52	4.8	55
24	Trafficking and cell surface stability of the epithelial Na+ channel expressed in epithelial Madin-Darby canine kidney cells. *Journal of Biological Chemistry*, **2002**, 277, 9772-9	5.4	103
23	Overexpression of protein-tyrosine phosphatase PTP sigma is linked to impaired glucose-induced insulin secretion in hereditary diabetic Goto-Kakizaki rats. *Biochemical and Biophysical Research Communications*, **2002**, 291, 945-50	3.4	43
22	Drosophila Nedd4, a ubiquitin ligase, is recruited by Commissureless to control cell surface levels of the roundabout receptor. *Neuron*, **2002**, 35, 447-59	13.9	144
21	Enhanced rate of nerve regeneration and directional errors after sciatic nerve injury in receptor protein tyrosine phosphatase sigma knock-out mice. *Journal of Neuroscience*, **2002**, 22, 5481-91	6.6	86
20	Solution structure of a Nedd4 WW domain-ENaC peptide complex. *Nature Structural Biology*, **2001**, 8, 407-12		181
19	Nedd4 regulates ubiquitination and stability of the guanine-nucleotide exchange factor CNrasGEF. *Journal of Biological Chemistry*, **2001**, 276, 46995-7003	5.4	38
18	Trafficking and cell surface stability of ENaC. *American Journal of Physiology - Renal Physiology*, **2001**, 281, F391-9	4.3	97
17	Regulation of the epithelial sodium channel (ENaC) by accessory proteins. *Current Opinion in Nephrology and Hypertension*, **2000**, 9, 529-34	3.5	37
16	Regulation of the epithelial Na+ channel by Nedd4 and ubiquitination. *Kidney International*, **2000**, 57, 809-15	9.9	168

15	Sequential assignment of proline-rich regions in proteins: application to modular binding domain complexes. *Journal of Biomolecular NMR*, **2000**, 16, 253-9	3	64
14	Apical membrane targeting of Nedd4 is mediated by an association of its C2 domain with annexin XIIIb. *Journal of Cell Biology*, **2000**, 149, 1473-84	7.3	128
13	Latent membrane protein 2A of Epstein-Barr virus binds WW domain E3 protein-ubiquitin ligases that ubiquitinate B-cell tyrosine kinases. *Molecular and Cellular Biology*, **2000**, 20, 8526-35	4.8	139
12	mGrb10 interacts with Nedd4. *Journal of Biological Chemistry*, **1999**, 274, 24094-9	5.4	85
11	Proline-rich motifs of the Na+/H+ exchanger 2 isoform. Binding of Src homology domain 3 and role in apical targeting in epithelia. *Journal of Biological Chemistry*, **1999**, 274, 10481-8	5.4	24
10	Defective regulation of the epithelial Na+ channel by Nedd4 in Liddle's syndrome. *Journal of Clinical Investigation*, **1999**, 103, 667-73	15.9	301
9	Electrophysiological characterization of the rat epithelial Na+ channel (rENaC) expressed in MDCK cells. Effects of Na+ and Ca2+. *Journal of General Physiology*, **1998**, 111, 825-46	3.4	126
8	The second catalytic domain of protein tyrosine phosphatase delta (PTP delta) binds to and inhibits the first catalytic domain of PTP sigma. *Molecular and Cellular Biology*, **1998**, 18, 2608-16	4.8	89
7	The C2 domain of the ubiquitin protein ligase Nedd4 mediates Ca2+-dependent plasma membrane localization. *Journal of Biological Chemistry*, **1997**, 272, 32329-36	5.4	154
6	Regulation of ion transport by protein-protein interaction domains. *Current Opinion in Nephrology and Hypertension*, **1997**, 6, 447-54	3.5	18
5	WW domains. *Structure*, **1996**, 4, 495-9	5.2	85
4	Drosophila larval foraging behavior. II. Selection in the sibling species, D. melanogaster and D. simulans. *Behavior Genetics*, **1983**, 13, 169-77	3.2	51
3	The possible role of juvenile hormone esterase in the regulation of juvenile hormone titre in the female cockroach Diploptera punctata. *Canadian Journal of Biochemistry and Cell Biology*, **1983**, 61, 811-7		10
2	Synthesis and degradation of C16 juvenile hormone (JH III) during the final two stadia of the cockroach, Diploptera punctata. *General and Comparative Endocrinology*, **1982**, 48, 25-32	3	52
1	High-throughput functional analysis of CFTR and other apically localized channels in iPSC derived intestinal organoids		2