

# Daniela Rotin

## List of Publications by Year in descending order

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88  
papers

7,676  
citations

41344

49  
h-index

51608

86  
g-index

90  
all docs

90  
docs citations

90  
times ranked

8240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physiological functions of the HECT family of ubiquitin ligases. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 398-409.	37.0	888
2	Defective regulation of the epithelial Na <sup>+</sup> channel by Nedd4 in Liddle's syndrome. <i>Journal of Clinical Investigation</i> , 1999, 103, 667-673.	8.2	331
3	A Strategy for Modulation of Enzymes in the Ubiquitin System. <i>Science</i> , 2013, 339, 590-595.	12.6	257
4	The Grb10/Nedd4 Complex Regulates Ligand-Induced Ubiquitination and Stability of the Insulin-Like Growth Factor I Receptor. <i>Molecular and Cellular Biology</i> , 2003, 23, 3363-3372.	2.3	245
5	Autoinhibition of the HECT-Type Ubiquitin Ligase Smurf2 through Its C2 Domain. <i>Cell</i> , 2007, 130, 651-662.	28.9	237
6	Solution structure of a Nedd4 WW domain-ENaC peptide complex. <i>Nature Structural Biology</i> , 2001, 8, 407-412.	9.7	202
7	Role of Ubiquitylation in Cellular Membrane Transport. <i>Physiological Reviews</i> , 2006, 86, 669-707.	28.8	193
8	Regulation of the epithelial Na <sup>+</sup> channel by Nedd4 and ubiquitination. <i>Kidney International</i> , 2000, 57, 809-815.	5.2	190
9	The C2 Domain of the Ubiquitin Protein Ligase Nedd4 Mediates Ca <sup>2+</sup> -dependent Plasma Membrane Localization. <i>Journal of Biological Chemistry</i> , 1997, 272, 32329-32336.	3.4	176
10	Rsp5/Nedd4 is the main ubiquitin ligase that targets cytosolic misfolded proteins following heat stress. <i>Nature Cell Biology</i> , 2014, 16, 1227-1237.	10.3	161
11	The ubiquitin ligase Nedd4-1 is dispensable for the regulation of PTEN stability and localization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8585-8590.	7.1	160
12	Drosophila Nedd4, a Ubiquitin Ligase, Is Recruited by Commissureless to Control Cell Surface Levels of the Roundabout Receptor. <i>Neuron</i> , 2002, 35, 447-459.	8.1	158
13	LAPTM4b recruits the LAT1-4F2hc Leu transporter to lysosomes and promotes mTORC1 activation. <i>Nature Communications</i> , 2015, 6, 7250.	12.8	156
14	Latent Membrane Protein 2A of Epstein-Barr Virus Binds WW Domain E3 Protein-Ubiquitin Ligases That Ubiquitinate B-Cell Tyrosine Kinases. <i>Molecular and Cellular Biology</i> , 2000, 20, 8526-8535.	2.3	152
15	Ubiquitination screen using protein microarrays for comprehensive identification of Rsp5 substrates in yeast. <i>Molecular Systems Biology</i> , 2007, 3, 116.	7.2	145
16	System-Wide Modulation of HECT E3 Ligases with Selective Ubiquitin Variant Probes. <i>Molecular Cell</i> , 2016, 62, 121-136.	9.7	142
17	Apical Membrane Targeting of Nedd4 Is Mediated by an Association of Its C2 Domain with Annexin Xiiiib. <i>Journal of Cell Biology</i> , 2000, 149, 1473-1484.	5.2	135
18	Electrophysiological Characterization of the Rat Epithelial Na <sup>+</sup> Channel (rENaC) Expressed in MDCK Cells. <i>Journal of General Physiology</i> , 1998, 111, 825-846.	1.9	129

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19	Comparison of substrate specificity of the ubiquitin ligases Nedd4 and Nedd4 $\epsilon$ using proteome arrays. <i>Molecular Systems Biology</i> , 2009, 5, 333.	7.2	128
20	Trafficking and Cell Surface Stability of the Epithelial Na <sup>+</sup> Channel Expressed in Epithelial Madin-Darby Canine Kidney Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 9772-9779.	3.4	121
21	Molecular determinants of voltage-gated sodium channel regulation by the Nedd4/Nedd4-like proteins. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C692-C701.	4.6	121
22	Trafficking and cell surface stability of ENaC. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 281, F391-F399.	2.7	112
23	The PY Motif of ENaC, Mutated in Liddle Syndrome, Regulates Channel Internalization, Sorting and Mobilization from Subapical Pool. <i>Traffic</i> , 2007, 8, 1246-1264.	2.7	110
24	Ubiquitin E3 ligase Nedd4-1 acts as a downstream target of PI3K/PTEN-mTORC1 signaling to promote neurite growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13205-13210.	7.1	110
25	Deletion of the ubiquitin ligase Nedd4L in lung epithelia causes cystic fibrosis-like disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3216-3221.	7.1	97
26	The Second Catalytic Domain of Protein Tyrosine Phosphatase $\hat{\Gamma}$ (PTP $\hat{\Gamma}$ ) Binds to and Inhibits the First Catalytic Domain of PTP $\hat{\Gamma}$ . <i>Molecular and Cellular Biology</i> , 1998, 18, 2608-2616.	2.3	94
27	mGrb10 Interacts with Nedd4. <i>Journal of Biological Chemistry</i> , 1999, 274, 24094-24099.	3.4	93
28	Role of the ubiquitin system in regulating ion transport. <i>Pflugers Archiv European Journal of Physiology</i> , 2011, 461, 1-21.	2.8	92
29	Ubiquitylation-dependent localization of PLK1 in mitosis. <i>Nature Cell Biology</i> , 2013, 15, 430-439.	10.3	91
30	WW domains. <i>Structure</i> , 1996, 4, 495-499.	3.3	90
31	Enhanced Rate of Nerve Regeneration and Directional Errors After Sciatic Nerve Injury in Receptor Protein Tyrosine Phosphatase $\hat{\Gamma}$ Knock-Out Mice. <i>Journal of Neuroscience</i> , 2002, 22, 5481-5491.	3.6	90
32	Transport of LAPT5 to lysosomes requires association with the ubiquitin ligase Nedd4, but not LAPT5 ubiquitination. <i>Journal of Cell Biology</i> , 2006, 175, 631-645.	5.2	89
33	Regulation of Nedd4-2 self-ubiquitination and stability by a PY motif located within its HECT-domain. <i>Biochemical Journal</i> , 2008, 415, 155-163.	3.7	87
34	Correction of the $\hat{\Gamma}$ Phe508 Cystic Fibrosis Transmembrane Conductance Regulator Trafficking Defect by the Bioavailable Compound Glafenine. <i>Molecular Pharmacology</i> , 2010, 77, 922-930.	2.3	86
35	Affinity and Specificity of Interactions between Nedd4 Isoforms and the Epithelial Na <sup>+</sup> Channel. <i>Journal of Biological Chemistry</i> , 2003, 278, 20019-20028.	3.4	80
36	Structural Determinants for High-Affinity Binding in a Nedd4 WW3 $\hat{\Gamma}$ -Domain-Comm PY Motif Complex. <i>Structure</i> , 2006, 14, 543-553.	3.3	77

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37	Tyrosine phosphorylation of NEDD4 activates its ubiquitin ligase activity. <i>Science Signaling</i> , 2014, 7, ra95.	3.6	76
38	Sequential assignment of proline-rich regions in proteins: application to modular binding domain complexes. <i>Journal of Biomolecular NMR</i> , 2000, 16, 253-259.	2.8	74
39	Inhaled ENaC antisense oligonucleotide ameliorates cystic fibrosis-like lung disease in mice. <i>Journal of Cystic Fibrosis</i> , 2017, 16, 671-680.	0.7	74
40	Nedd4-2 and the Regulation of Epithelial Sodium Transport. <i>Frontiers in Physiology</i> , 2012, 3, 212.	2.8	73
41	Nedd4-1 binds and ubiquitylates activated FGFR1 to control its endocytosis and function. <i>EMBO Journal</i> , 2011, 30, 3259-3273.	7.8	70
42	The Ubiquitin Ligase Nedd4-1 Is Required for Heart Development and Is a Suppressor of Thrombospondin-1. <i>Journal of Biological Chemistry</i> , 2010, 285, 6770-6780.	3.4	65
43	LAPTM5 Protein Is a Positive Regulator of Proinflammatory Signaling Pathways in Macrophages. <i>Journal of Biological Chemistry</i> , 2012, 287, 27691-27702.	3.4	65
44	The Ubiquitin Ligase Nedd4-1 Participates in Denervation-Induced Skeletal Muscle Atrophy in Mice. <i>PLoS ONE</i> , 2012, 7, e46427.	2.5	63
45	Protein tyrosine phosphatase $\gamma$ -deficient mice show aberrant cytoarchitecture and structural abnormalities in the central nervous system. <i>Journal of Neuroscience Research</i> , 2002, 70, 24-35.	2.9	62
46	Direct Binding of the $\beta$ 1 Adrenergic Receptor to the Cyclic AMP-Dependent Guanine Nucleotide Exchange Factor CNrasGEF Leads to Ras Activation. <i>Molecular and Cellular Biology</i> , 2002, 22, 7942-7952.	2.3	61
47	<i>Drosophila</i> larval foraging behavior. II. Selection in the sibling species, <i>D. melanogaster</i> and <i>D. simulans</i> . <i>Behavior Genetics</i> , 1983, 13, 169-177.	2.1	58
48	Synthesis and degradation of C16 juvenile hormone (JH III) during the final two stadia of the cockroach, <i>Diploptera punctata</i> . <i>General and Comparative Endocrinology</i> , 1982, 48, 25-32.	1.8	53
49	N-Cadherin Is an In Vivo Substrate for Protein Tyrosine Phosphatase Sigma (PTP $\sigma$ ) and Participates in PTP $\sigma$ -Mediated Inhibition of Axon Growth. <i>Molecular and Cellular Biology</i> , 2007, 27, 208-219.	2.3	53
50	Protein-Tyrosine Phosphatase Sigma Is Associated with Ulcerative Colitis. <i>Current Biology</i> , 2007, 17, 1212-1218.	3.9	53
51	Protein tyrosine phosphatase $\zeta$ targets apical junction complex proteins in the intestine and regulates epithelial permeability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 693-698.	7.1	53
52	Conditional deletion of Nedd4-2 in lung epithelial cells causes progressive pulmonary fibrosis in adult mice. <i>Nature Communications</i> , 2020, 11, 2012.	12.8	52
53	Ubiquitylation-independent oligomerization regulates activity of Nedd4 ligases. <i>EMBO Journal</i> , 2017, 36, 425-440.	7.8	51
54	Overexpression of Protein-Tyrosine Phosphatase PTP $\sigma$ Is Linked to Impaired Glucose-Induced Insulin Secretion in Hereditary Diabetic Goto-Kakizaki Rats. <i>Biochemical and Biophysical Research Communications</i> , 2002, 291, 945-950.	2.1	49

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55	Regulation of the epithelial sodium channel (ENaC) by accessory proteins. <i>Current Opinion in Nephrology and Hypertension</i> , 2000, 9, 529-534.	2.0	45
56	High-content Functional Screen to Identify Proteins that Correct F508del-CFTR Function. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 780-790.	3.8	45
57	Ibuprofen rescues mutant cystic fibrosis transmembrane conductance regulator trafficking. <i>Journal of Cystic Fibrosis</i> , 2015, 14, 16-25.	0.7	44
58	Nedd4 Regulates Ubiquitination and Stability of the Guanine-Nucleotide Exchange Factor CNrasGEF. <i>Journal of Biological Chemistry</i> , 2001, 276, 46995-47003.	3.4	41
59	ENaC and Its Regulatory Proteins as Drug Targets for Blood Pressure Control. <i>Current Drug Targets</i> , 2008, 9, 709-716.	2.1	40
60	The Ion Transporter NKCC1 Links Cell Volume to Cell Mass Regulation by Suppressing mTORC1. <i>Cell Reports</i> , 2019, 27, 1886-1896.e6.	6.4	39
61	A High Throughput Screen to Identify Substrates for the Ubiquitin Ligase Rsp5. <i>Journal of Biological Chemistry</i> , 2005, 280, 29470-29478.	3.4	37
62	Function and Regulation of the Epithelial Na <sup>+</sup> Channel ENaC. , 2021, 11, 2017-2045.		36
63	Regulation of Commissureless by the Ubiquitin Ligase DNedd4 Is Required for Neuromuscular Synaptogenesis in <i>Drosophila melanogaster</i> . <i>Molecular and Cellular Biology</i> , 2007, 27, 481-496.	2.3	34
64	Role of the UPS in Liddle syndrome. <i>BMC Biochemistry</i> , 2008, 9, S5.	4.4	33
65	Pituitary, Pancreatic and Gut Neuroendocrine Defects in Protein Tyrosine Phosphatase-Sigma-Deficient Mice. <i>Molecular Endocrinology</i> , 2002, 16, 155-169.	3.7	31
66	Use of Kinase Inhibitors to Correct <sup>125</sup> I-F508-CFTR Function. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 745-757.	3.8	31
67	A Role for the Ubiquitin Ligase Nedd4 in Membrane Sorting of LAPTM4 Proteins. <i>PLoS ONE</i> , 2011, 6, e27478.	2.5	29
68	The Guanine Nucleotide Exchange Factor CNrasGEF Regulates Melanogenesis and Cell Survival in Melanoma Cells*. <i>Journal of Biological Chemistry</i> , 2006, 281, 121-128.	3.4	28
69	The Ubiquitin Ligase Nedd4L Regulates the Na <sup>+</sup> /K <sup>+</sup> /2Cl <sup>-</sup> Co-transporter NKCC1/SLC12A2 in the Colon. <i>Journal of Biological Chemistry</i> , 2017, 292, 3137-3145.	3.4	26
70	Proline-rich Motifs of the Na <sup>+</sup> /H <sup>+</sup> Exchanger 2 Isoform. <i>Journal of Biological Chemistry</i> , 1999, 274, 10481-10488.	3.4	25
71	RNA Interference Screen to Identify Kinases That Suppress Rescue of <sup>125</sup> I-F508-CFTR*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1569-1583.	3.8	24
72	Dynamin inhibitors block mTORC1 activation by amino acids independently of dynamin. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	23

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73	Regulation of ion transport by protein-protein interaction domains. <i>Current Opinion in Nephrology and Hypertension</i> , 1997, 6, 447-454.	2.0	19
74	Functional Rescue of DeltaF508-CFTR by Peptides Designed to Mimic Sorting Motifs. <i>Chemistry and Biology</i> , 2009, 16, 520-530.	6.0	19
75	Regulation of the Epithelial Na <sup>+</sup> Channel by Cytosolic ATP. <i>Journal of Biological Chemistry</i> , 2003, 278, 38276-38286.	3.4	14
76	The possible role of juvenile hormone esterase in the regulation of juvenile hormone titre in the female cockroach <i>Diploptera punctata</i> . <i>Canadian Journal of Biochemistry and Cell Biology</i> , 1983, 61, 811-817.	1.3	10
77	A Splice Isoform of DNedd4, DNedd4-Long, Negatively Regulates Neuromuscular Synaptogenesis and Viability in <i>Drosophila</i> . <i>PLoS ONE</i> , 2011, 6, e27007.	2.5	10
78	Elevated intracellular Na <sup>+</sup> and osmolarity stimulate catalytic activity of the ubiquitin ligase Nedd4-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	8
79	Apical junction complex proteins and ulcerative colitis: a focus on the <i>PTPRS</i> gene. <i>Expert Review of Molecular Diagnostics</i> , 2008, 8, 465-477.	3.1	7
80	Use of Proteome Arrays to Globally Identify Substrates for E3 Ubiquitin Ligases. <i>Methods in Molecular Biology</i> , 2011, 759, 215-224.	0.9	7
81	Problems with Co-Funding in Canada. <i>Science</i> , 2005, 308, 1867b-1867b.	12.6	6
82	Regulation of SH3PX1 by dNedd4-long at the <i>Drosophila</i> neuromuscular junction. <i>Journal of Biological Chemistry</i> , 2019, 294, 1739-1752.	3.4	6
83	Inhibition of eEF2K synergizes with glutaminase inhibitors or 4EBP1 depletion to suppress growth of triple-negative breast cancer cells. <i>Scientific Reports</i> , 2021, 11, 9181.	3.3	6
84	High-Throughput Functional Analysis of CFTR and Other Apically Localized Proteins in iPSC-Derived Human Intestinal Organoids. <i>Cells</i> , 2021, 10, 3419.	4.1	6
85	Phosphorylation of the Chaperone-Like HspB5 Rescues Trafficking and Function of F508del-CFTR. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4844.	4.1	5
86	<i>Drosophila</i> Nedd4-long reduces Amphiphysin levels in muscles and leads to impaired T-tubule formation. <i>Molecular Biology of the Cell</i> , 2016, 27, 907-918.	2.1	4
87	Split chloramphenicol acetyl-transferase assay reveals self-ubiquitylation-dependent regulation of UBE3B. <i>Journal of Molecular Biology</i> , 2021, 433, 167276.	4.2	3
88	Technical Note: The Use of RNA-interference as a Tool to Find Proteins Involved in Melanosome Formation or Transport. <i>Nature Precedings</i> , 2009, , .	0.1	0