

Daniela Rotin

List of Publications by Citations

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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 | Physiological functions of the HECT family of ubiquitin ligases. <i>Nature Reviews Molecular Cell Biology</i> , 2009 , 10, 398-409 | 48.7 | 736 |
| 85 | Defective regulation of the epithelial Na ⁺ channel by Nedd4 in Liddle's syndrome. <i>Journal of Clinical Investigation</i> , 1999 , 103, 667-73 | 15.9 | 301 |
| 84 | 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, 3363-72 | 4.8 | 209 |
| 83 | Autoinhibition of the HECT-type ubiquitin ligase Smurf2 through its C2 domain. <i>Cell</i> , 2007 , 130, 651-62 | 56.2 | 206 |
| 82 | A strategy for modulation of enzymes in the ubiquitin system. <i>Science</i> , 2013 , 339, 590-5 | 33.3 | 199 |
| 81 | Solution structure of a Nedd4 WW domain-ENaC peptide complex. <i>Nature Structural Biology</i> , 2001 , 8, 407-12 | | 181 |
| 80 | Role of ubiquitylation in cellular membrane transport. <i>Physiological Reviews</i> , 2006 , 86, 669-707 | 47.9 | 180 |
| 79 | Regulation of the epithelial Na ⁺ channel by Nedd4 and ubiquitination. <i>Kidney International</i> , 2000 , 57, 809-15 | 9.9 | 168 |
| 78 | The C2 domain of the ubiquitin protein ligase Nedd4 mediates Ca ²⁺ -dependent plasma membrane localization. <i>Journal of Biological Chemistry</i> , 1997 , 272, 32329-36 | 5.4 | 154 |
| 77 | Drosophila Nedd4, a ubiquitin ligase, is recruited by Commissureless to control cell surface levels of the roundabout receptor. <i>Neuron</i> , 2002 , 35, 447-59 | 13.9 | 144 |
| 76 | 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, 8526-35 | 4.8 | 139 |
| 75 | 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, 8585-90 | 11.5 | 137 |
| 74 | Apical membrane targeting of Nedd4 is mediated by an association of its C2 domain with annexin XIIIb. <i>Journal of Cell Biology</i> , 2000 , 149, 1473-84 | 7.3 | 128 |
| 73 | Ubiquitination screen using protein microarrays for comprehensive identification of Rsp5 substrates in yeast. <i>Molecular Systems Biology</i> , 2007 , 3, 116 | 12.2 | 126 |
| 72 | Electrophysiological characterization of the rat epithelial Na ⁺ channel (rENaC) expressed in MDCK cells. Effects of Na ⁺ and Ca ²⁺ . <i>Journal of General Physiology</i> , 1998 , 111, 825-46 | 3.4 | 126 |
| 71 | Rsp5/Nedd4 is the main ubiquitin ligase that targets cytosolic misfolded proteins following heat stress. <i>Nature Cell Biology</i> , 2014 , 16, 1227-37 | 23.4 | 125 |
| 70 | LAPTM4b recruits the LAT1-4F2hc Leu transporter to lysosomes and promotes mTORC1 activation. <i>Nature Communications</i> , 2015 , 6, 7250 | 17.4 | 118 |

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|----|--|------|-----|
| 69 | System-Wide Modulation of HECT E3 Ligases with Selective Ubiquitin Variant Probes. <i>Molecular Cell</i> , 2016 , 62, 121-36 | 17.6 | 110 |
| 68 | Trafficking and cell surface stability of the epithelial Na ⁺ channel expressed in epithelial Madin-Darby canine kidney cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 9772-9 | 5.4 | 103 |
| 67 | Molecular determinants of voltage-gated sodium channel regulation by the Nedd4/Nedd4-like proteins. <i>American Journal of Physiology - Cell Physiology</i> , 2005 , 288, C692-701 | 5.4 | 101 |
| 66 | Comparison of substrate specificity of the ubiquitin ligases Nedd4 and Nedd4-2 using proteome arrays. <i>Molecular Systems Biology</i> , 2009 , 5, 333 | 12.2 | 100 |
| 65 | Trafficking and cell surface stability of ENaC. <i>American Journal of Physiology - Renal Physiology</i> , 2001 , 281, F391-9 | 4.3 | 97 |
| 64 | The PY motif of ENaC, mutated in Liddle syndrome, regulates channel internalization, sorting and mobilization from subapical pool. <i>Traffic</i> , 2007 , 8, 1246-64 | 5.7 | 92 |
| 63 | The second catalytic domain of protein tyrosine phosphatase delta (PTP delta) binds to and inhibits the first catalytic domain of PTP sigma. <i>Molecular and Cellular Biology</i> , 1998 , 18, 2608-16 | 4.8 | 89 |
| 62 | Enhanced rate of nerve regeneration and directional errors after sciatic nerve injury in receptor protein tyrosine phosphatase sigma knock-out mice. <i>Journal of Neuroscience</i> , 2002 , 22, 5481-91 | 6.6 | 86 |
| 61 | Correction of the Delta phe508 cystic fibrosis transmembrane conductance regulator trafficking defect by the bioavailable compound glafenine. <i>Molecular Pharmacology</i> , 2010 , 77, 922-30 | 4.3 | 85 |
| 60 | mGrb10 interacts with Nedd4. <i>Journal of Biological Chemistry</i> , 1999 , 274, 24094-9 | 5.4 | 85 |
| 59 | WW domains. <i>Structure</i> , 1996 , 4, 495-9 | 5.2 | 85 |
| 58 | Role of the ubiquitin system in regulating ion transport. <i>Pflugers Archiv European Journal of Physiology</i> , 2011 , 461, 1-21 | 4.6 | 81 |
| 57 | 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, 3216-21 | 11.5 | 77 |
| 56 | Transport of LAPTM5 to lysosomes requires association with the ubiquitin ligase Nedd4, but not LAPTM5 ubiquitination. <i>Journal of Cell Biology</i> , 2006 , 175, 631-45 | 7.3 | 77 |
| 55 | Regulation of Nedd4-2 self-ubiquitination and stability by a PY motif located within its HECT-domain. <i>Biochemical Journal</i> , 2008 , 415, 155-63 | 3.8 | 75 |
| 54 | Affinity and specificity of interactions between Nedd4 isoforms and the epithelial Na ⁺ channel. <i>Journal of Biological Chemistry</i> , 2003 , 278, 20019-28 | 5.4 | 74 |
| 53 | Ubiquitylation-dependent localization of PLK1 in mitosis. <i>Nature Cell Biology</i> , 2013 , 15, 430-9 | 23.4 | 70 |
| 52 | Structural determinants for high-affinity binding in a Nedd4 WW3* domain-Comm PY motif complex. <i>Structure</i> , 2006 , 14, 543-53 | 5.2 | 67 |

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| 51 | Sequential assignment of proline-rich regions in proteins: application to modular binding domain complexes. <i>Journal of Biomolecular NMR</i> , 2000 , 16, 253-9 | 3 | 64 |
| 50 | Protein tyrosine phosphatase sigma-deficient mice show aberrant cytoarchitecture and structural abnormalities in the central nervous system. <i>Journal of Neuroscience Research</i> , 2002 , 70, 24-35 | 4.4 | 55 |
| 49 | Direct binding of the beta1 adrenergic receptor to the cyclic AMP-dependent guanine nucleotide exchange factor CNrasGEF leads to Ras activation. <i>Molecular and Cellular Biology</i> , 2002 , 22, 7942-52 | 4.8 | 55 |
| 48 | Tyrosine phosphorylation of NEDD4 activates its ubiquitin ligase activity. <i>Science Signaling</i> , 2014 , 7, ra958.8 | | 53 |
| 47 | Nedd4-1 binds and ubiquitylates activated FGFR1 to control its endocytosis and function. <i>EMBO Journal</i> , 2011 , 30, 3259-73 | 13 | 53 |
| 46 | Inhaled ENaC antisense oligonucleotide ameliorates cystic fibrosis-like lung disease in mice. <i>Journal of Cystic Fibrosis</i> , 2017 , 16, 671-680 | 4.1 | 52 |
| 45 | Nedd4-2 and the regulation of epithelial sodium transport. <i>Frontiers in Physiology</i> , 2012 , 3, 212 | 4.6 | 52 |
| 44 | 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 | 3 | 52 |
| 43 | The ubiquitin ligase Nedd4-1 participates in denervation-induced skeletal muscle atrophy in mice. <i>PLoS ONE</i> , 2012 , 7, e46427 | 3.7 | 52 |
| 42 | 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, 13205-10 | 11.5 | 51 |
| 41 | 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, 6770-80 | 5.4 | 51 |
| 40 | <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, 169-77 | 3.2 | 51 |
| 39 | N-cadherin is an in vivo substrate for protein tyrosine phosphatase sigma (PTPsigma) and participates in PTPsigma-mediated inhibition of axon growth. <i>Molecular and Cellular Biology</i> , 2007 , 27, 208-19 | 4.8 | 50 |
| 38 | Protein tyrosine phosphatase ζ 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, 693-8 | 11.5 | 48 |
| 37 | Protein-tyrosine phosphatase sigma is associated with ulcerative colitis. <i>Current Biology</i> , 2007 , 17, 1212-8.3 | | 46 |
| 36 | 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, 945-50 | 3.4 | 43 |
| 35 | High-content functional screen to identify proteins that correct F508del-CFTR function. <i>Molecular and Cellular Proteomics</i> , 2009 , 8, 780-90 | 7.6 | 40 |
| 34 | Nedd4 regulates ubiquitination and stability of the guanine-nucleotide exchange factor CNrasGEF. <i>Journal of Biological Chemistry</i> , 2001 , 276, 46995-7003 | 5.4 | 38 |

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| 33 | Ubiquitylation-dependent oligomerization regulates activity of Nedd4 ligases. <i>EMBO Journal</i> , 2017 , 36, 425-440 | 13 | 37 |
| 32 | Regulation of the epithelial sodium channel (ENaC) by accessory proteins. <i>Current Opinion in Nephrology and Hypertension</i> , 2000 , 9, 529-34 | 3.5 | 37 |
| 31 | Ibuprofen rescues mutant cystic fibrosis transmembrane conductance regulator trafficking. <i>Journal of Cystic Fibrosis</i> , 2015 , 14, 16-25 | 4.1 | 36 |
| 30 | ENaC and its regulatory proteins as drug targets for blood pressure control. <i>Current Drug Targets</i> , 2008 , 9, 709-16 | 3 | 35 |
| 29 | A high throughput screen to identify substrates for the ubiquitin ligase Rsp5. <i>Journal of Biological Chemistry</i> , 2005 , 280, 29470-8 | 5.4 | 35 |
| 28 | LAPTM5 protein is a positive regulator of proinflammatory signaling pathways in macrophages. <i>Journal of Biological Chemistry</i> , 2012 , 287, 27691-702 | 5.4 | 34 |
| 27 | A role for the ubiquitin ligase Nedd4 in membrane sorting of LAPTM4 proteins. <i>PLoS ONE</i> , 2011 , 6, e27438 | 3.7 | 29 |
| 26 | 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, 481-96 | 4.8 | 29 |
| 25 | Pituitary, pancreatic and gut neuroendocrine defects in protein tyrosine phosphatase-sigma-deficient mice. <i>Molecular Endocrinology</i> , 2002 , 16, 155-69 | | 28 |
| 24 | Conditional deletion of Nedd4-2 in lung epithelial cells causes progressive pulmonary fibrosis in adult mice. <i>Nature Communications</i> , 2020 , 11, 2012 | 17.4 | 26 |
| 23 | Use of kinase inhibitors to correct B508-CFTR function. <i>Molecular and Cellular Proteomics</i> , 2012 , 11, 745-57 | 7.6 | 25 |
| 22 | The guanine nucleotide exchange factor CNrasGEF regulates melanogenesis and cell survival in melanoma cells. <i>Journal of Biological Chemistry</i> , 2006 , 281, 121-8 | 5.4 | 25 |
| 21 | Proline-rich motifs of the Na ⁺ /H ⁺ exchanger 2 isoform. Binding of Src homology domain 3 and role in apical targeting in epithelia. <i>Journal of Biological Chemistry</i> , 1999 , 274, 10481-8 | 5.4 | 24 |
| 20 | Role of the UPS in Liddle syndrome. <i>BMC Biochemistry</i> , 2008 , 9 Suppl 1, S5 | 4.8 | 22 |
| 19 | RNA Interference Screen to Identify Kinases That Suppress Rescue of B508-CFTR. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 1569-83 | 7.6 | 20 |
| 18 | Dynamins inhibitors block activation of mTORC1 by amino acids independently of dynamin. <i>Journal of Cell Science</i> , 2018 , 131, | 5.3 | 18 |
| 17 | Functional rescue of DeltaF508-CFTR by peptides designed to mimic sorting motifs. <i>Chemistry and Biology</i> , 2009 , 16, 520-30 | | 18 |
| 16 | Regulation of ion transport by protein-protein interaction domains. <i>Current Opinion in Nephrology and Hypertension</i> , 1997 , 6, 447-54 | 3.5 | 18 |

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| 15 | The Ion Transporter NKCC1 Links Cell Volume to Cell Mass Regulation by Suppressing mTORC1. <i>Cell Reports</i> , 2019 , 27, 1886-1896.e6 | 10.6 | 15 |
| 14 | Regulation of the epithelial Na ⁺ channel by cytosolic ATP. <i>Journal of Biological Chemistry</i> , 2003 , 278, 38276-86 | 5.4 | 13 |
| 13 | The Ubiquitin Ligase Nedd4L Regulates the Na/K/2Cl Co-transporter NKCC1/SLC12A2 in the Colon. <i>Journal of Biological Chemistry</i> , 2017 , 292, 3137-3145 | 5.4 | 11 |
| 12 | 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, 811-7 | | 10 |
| 11 | A splice isoform of DNedd4, DNedd4-long, negatively regulates neuromuscular synaptogenesis and viability in <i>Drosophila</i> . <i>PLoS ONE</i> , 2011 , 6, e27007 | 3.7 | 10 |
| 10 | Apical junction complex proteins and ulcerative colitis: a focus on the PTPRS gene. <i>Expert Review of Molecular Diagnostics</i> , 2008 , 8, 465-77 | 3.8 | 7 |
| 9 | Use of proteome arrays to globally identify substrates for E3 ubiquitin ligases. <i>Methods in Molecular Biology</i> , 2011 , 759, 215-24 | 1.4 | 7 |
| 8 | Function and Regulation of the Epithelial Na Channel ENaC. <i>Comprehensive Physiology</i> , 2021 , 11, 2017-2045 | 4.5 | 7 |
| 7 | Problems with co-funding in Canada. <i>Science</i> , 2005 , 308, 1867 | 33.3 | 5 |
| 6 | <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, 907-18 | 3.5 | 3 |
| 5 | Phosphorylation of the Chaperone-Like HspB5 Rescues Trafficking and Function of F508del-CFTR. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 2 |
| 4 | 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 | 4.9 | 2 |
| 3 | High-throughput functional analysis of CFTR and other apically localized channels in iPSC derived intestinal organoids | | 2 |
| 2 | Regulation of SH3PX1 by dNedd4-long at the neuromuscular junction. <i>Journal of Biological Chemistry</i> , 2019 , 294, 1739-1752 | 5.4 | 1 |
| 1 | Split Chloramphenicol Acetyl-Transferase Assay Reveals Self-Ubiquitylation-Dependent Regulation of UBE3B. <i>Journal of Molecular Biology</i> , 2021 , 433, 167276 | 6.5 | |