

Ubiquitylation activates a peptidase that promotes cleavage of  
activating E3 ligases and diverse growth regulatory proteins  
*Arabidopsis*

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Citation Report

#	ARTICLE	IF	CITATIONS
1	<i>WIDE AND THICK GRAIN 1</i> , which encodes an otubainin-like protease with deubiquitination activity, influences grain size and shape in rice. <i>Plant Journal</i> , 2017, 91, 849-860.	2.8	146
2	Exiting Already? Molecular Control of Cell-Proliferation Arrest in Leaves: Cutting Edge. <i>Molecular Plant</i> , 2017, 10, 909-911.	3.9	0
4	In Vivo Reporters for Protein Half-Life. <i>Methods in Molecular Biology</i> , 2017, 1669, 387-406.	0.4	10
5	Conditional Modulation of Biological Processes by Low-Temperature Degrons. <i>Methods in Molecular Biology</i> , 2017, 1669, 407-416.	0.4	12
6	BIG BROTHER Uncouples Cell Proliferation from Elongation in the Arabidopsis Primary Root. <i>Plant and Cell Physiology</i> , 2017, 58, 1519-1527.	1.5	11
7	Identification of miRNAs that regulate silique development in Brassica napus. <i>Plant Science</i> , 2018, 269, 106-117.	1.7	27
8	A Regulatory Module Controlling Homeostasis of a Plant Immune Kinase. <i>Molecular Cell</i> , 2018, 69, 493-504.e6.	4.5	161
9	Ubiquitylation in plants: signaling hub for the integration of environmental signals. <i>Journal of Experimental Botany</i> , 2018, 69, 4511-4527.	2.4	64
10	Control of grain size in rice. <i>Plant Reproduction</i> , 2018, 31, 237-251.	1.3	188
11	Real-time detection of N-ε-mediated ubiquitination via fluorescently labeled substrate probes. <i>New Phytologist</i> , 2018, 217, 613-624.	3.5	32
12	Overexpression of mutated <i>ZmDA1</i> or <i>ZmDAR1</i> gene improves maize kernel yield by enhancing starch synthesis. <i>Plant Biotechnology Journal</i> , 2018, 16, 234-244.	4.1	57
13	Repertoire of plant RING E3 ubiquitin ligases revisited: New groups counting gene families and single genes. <i>PLoS ONE</i> , 2018, 13, e0203442.	1.1	26
14	Control of Grain Size and Weight by the OsMKKK10-OsMKK4-OsMAPK6 Signaling Pathway in Rice. <i>Molecular Plant</i> , 2018, 11, 860-873.	3.9	168
15	N-terminal acetylation: an essential protein modification emerges as an important regulator of stress responses. <i>Journal of Experimental Botany</i> , 2018, 69, 4555-4568.	2.4	73
16	OLIGOCELLULA1/HIGH EXPRESSION OF OSMOTICALLY RESPONSIVE GENES15 Promotes Cell Proliferation With HISTONE DEACETYLASE9 and POWERDRESS During Leaf Development in Arabidopsis thaliana. <i>Frontiers in Plant Science</i> , 2018, 9, 580.	1.7	30
17	Ubiquitin-related genes are differentially expressed in isogenic lines contrasting for pericarp cell size and grain weight in hexaploid wheat. <i>BMC Plant Biology</i> , 2018, 18, 22.	1.6	29
18	Origins of peptidases. <i>Biochimie</i> , 2019, 166, 4-18.	1.3	30
19	Variation in Expression of the HECT E3 Ligase <i>UPL3</i> Modulates LEC2 Levels, Seed Size, and Crop Yields in <i>Brassica napus</i> . <i>Plant Cell</i> , 2019, 31, 2370-2385.	3.1	38

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20	Protein partners of plant ubiquitin-specific proteases (UBPs). <i>Plant Physiology and Biochemistry</i> , 2019, 145, 227-236.	2.8	13
21	Modulating Protein Stability to Switch Toxic Protein Function On and Off in Living Cells. <i>Plant Physiology</i> , 2019, 179, 929-942.	2.3	16
22	Transcriptional Repression of the APC/C Activator Genes <i>CCS52A1/A2</i> by the Mediator Complex Subunit MED16 Controls Endoreduplication and Cell Growth in Arabidopsis. <i>Plant Cell</i> , 2019, 31, 1899-1912.	3.1	32
23	Conditional Protein Function via N-Degron Pathway-Mediated Proteostasis in Stress Physiology. <i>Annual Review of Plant Biology</i> , 2019, 70, 83-117.	8.6	53
24	New beginnings and new ends: methods for large-scale characterization of protein termini and their use in plant biology. <i>Journal of Experimental Botany</i> , 2019, 70, 2021-2038.	2.4	37
25	Molecular Networks of Seed Size Control in Plants. <i>Annual Review of Plant Biology</i> , 2019, 70, 435-463.	8.6	336
26	Caught green-handed: methods for in vivo detection and visualization of protease activity. <i>Journal of Experimental Botany</i> , 2019, 70, 2125-2141.	2.4	7
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28	The Arabidopsis thaliana N-recognin E3 ligase PROTEOLYSIS1 influences the immune response. <i>Plant Direct</i> , 2019, 3, e00194.	0.8	12
29	Differential N-end Rule Degradation of RIN4/NOI Fragments Generated by the AvrRpt2 Effector Protease. <i>Plant Physiology</i> , 2019, 180, 2272-2289.	2.3	16
30	A reductionist approach to dissecting grain weight and yield in wheat. <i>Journal of Integrative Plant Biology</i> , 2019, 61, 337-358.	4.1	122
31	The plant N-degron pathways of ubiquitin-mediated proteolysis. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 70-89.	4.1	51
32	<i>TaDA1</i> , a conserved negative regulator of kernel size, has an additive effect with <i>TaGW2</i> in common wheat ( <i>Triticum aestivum</i> L.). <i>Plant Biotechnology Journal</i> , 2020, 18, 1330-1342.	4.1	90
33	Molecular networks regulating cell division during Arabidopsis leaf growth. <i>Journal of Experimental Botany</i> , 2020, 71, 2365-2378.	2.4	83
34	A simple and efficient <i>Agrobacterium</i> -mediated transient expression system to dissect molecular processes in <i>Brassica rapa</i> and <i>Brassica napus</i> . <i>Plant Direct</i> , 2020, 4, e00237.	0.8	6
35	The ubiquitin system affects agronomic plant traits. <i>Journal of Biological Chemistry</i> , 2020, 295, 13940-13955.	1.6	32
36	Transcriptome profiling and weighted gene co-expression network analysis of early floral development in <i>Aquilegia coerulea</i> . <i>Scientific Reports</i> , 2020, 10, 19637.	1.6	12
37	RING finger ubiquitin E3 ligase gene <i>TaSDIR1-4A</i> contributes to determination of grain size in common wheat. <i>Journal of Experimental Botany</i> , 2020, 71, 5377-5388.	2.4	43

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38	Quantitative Trait Loci for Seed Size Variation in Cucurbits – A Review. <i>Frontiers in Plant Science</i> , 2020, 11, 304.	1.7	30
39	Control of Plant Branching by the CUC2/CUC3-DA1-UBP15 Regulatory Module. <i>Plant Cell</i> , 2020, 32, 1919-1932.	3.1	27
40	Decreased grain size1, a C3HC4-type RING protein, influences grain size in rice ( <i>Oryza sativa</i> L.). <i>Plant Molecular Biology</i> , 2021, 105, 405-417.	2.0	10
41	The F-box protein MIO1/SLB1 regulates organ size and leaf movement in <i>Medicago truncatula</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 2995-3011.	2.4	20
42	Post-translational modifications regulate the activity of the growth-restricting protease DA1. <i>Journal of Experimental Botany</i> , 2021, 72, 3352-3366.	2.4	24
43	From genes to networks: The genetic control of leaf development. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 1181-1196.	4.1	36
44	Lectin receptor-like kinase LecRK-VIII.2 is a missing link in MAPK signaling-mediated yield control. <i>Plant Physiology</i> , 2021, 187, 303-320.	2.3	19
45	Genetic regulators of leaf size in Brassica crops. <i>Horticulture Research</i> , 2021, 8, 91.	2.9	23
46	AINTEGUMENTA and AINTEGUMENTA-LIKE6 directly regulate floral homeotic, growth, and vascular development genes in young <i>Arabidopsis</i> flowers. <i>Journal of Experimental Botany</i> , 2021, 72, 5478-5493.	2.4	21
47	The ubiquitin-interacting motif-type ubiquitin receptor HDR3 interacts with and stabilizes the histone acetyltransferase GW6a to control the grain size in rice. <i>Plant Cell</i> , 2021, 33, 3331-3347.	3.1	38
48	Dissection of Allelic Variation Underlying Floral and Fruit Traits in Flare Tree Peony ( <i>Paeonia rockii</i> ) Using Association Mapping. <i>Frontiers in Genetics</i> , 2021, 12, 664814.	1.1	0
49	The GW2-WG1-OsbZIP47 pathway controls grain size and weight in rice. <i>Molecular Plant</i> , 2021, 14, 1266-1280.	3.9	70
50	Life and death of proteins after protease cleavage: protein degradation by the N-end rule pathway. <i>New Phytologist</i> , 2018, 218, 929-935.	3.5	77
51	UBP12 and UBP13 negatively regulate the activity of the ubiquitin-dependent peptidases DA1, DAR1 and DAR2. <i>ELife</i> , 2020, 9, .	2.8	30
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60	The phosphoproteomic and interactomic landscape of qGL3/OsPPKL1-mediated brassinosteroid signaling in rice. <i>Plant Journal</i> , 2022, 109, 1048-1063.	2.8	8
61	Plant Proteolysis in Development: Insights and Functions. <i>Progress in Botany Fortschritte Der Botanik</i> , 2021, , .	0.1	0

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63	Ectopic expression of <i>GmRNF1a</i> encoding a soybean E3 ubiquitin ligase affects <i>Arabidopsis</i> silique development and dehiscence. <i>Planta</i> , 2022, 255, 55.	1.6	2
64	A sweet cherry AGAMOUS-LIKE transcription factor PavAGL15 affects fruit size by directly repressing the PavCYP78A9 expression. <i>Scientia Horticulturae</i> , 2022, 297, 110947.	1.7	5
65	CRISPR-Cas9 Mediated Mutation in OsPUB43 Improves Grain Length and Weight in Rice by Promoting Cell Proliferation in Spikelet Hull. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2347.	1.8	6
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69	Review: Exploring possible approaches using ubiquitylation and sumoylation pathways in modifying plant stress tolerance. <i>Plant Science</i> , 2022, 319, 111275.	1.7	5
70	Modulation of the DA1 pathway in maize shows that translatability of information from <i>Arabidopsis</i> to crops is complex. <i>Plant Science</i> , 2022, 321, 111295.	1.7	7
88	My favourite flowering image: "giant" <i>Arabidopsis</i> flowers. <i>Journal of Experimental Botany</i> , 2022, 73, 3836-3839.	2.4	2
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91	Ubiquitinated DA1 negatively regulates vascular cambium activity through modulating the stability of WOX4 in <i>Populus</i> . <i>Plant Cell</i> , 2022, 34, 3364-3382.	3.1	16
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94	ERECTA regulates seed size independently of its intracellular domain via MAPK-DA1-UBP15 signaling. <i>Plant Cell</i> , 2022, 34, 3773-3789.	3.1	12
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101	Using CRL3<sup>BPM</sup> E3 ligase substrate recognition sites as tools to impact plant development and stress tolerance in <sc><i>Arabidopsis thaliana</i></sc>. <i>Plant Direct</i> , 2022, 6, .	0.8	2
102	Mechanisms controlling plant proteases and their substrates. <i>Cell Death and Differentiation</i> , 2023, 30, 1047-1058.	5.0	1
104	Genetic Localization and Homologous Genes Mining for Barley Grain Size. <i>International Journal of Molecular Sciences</i> , 2023, 24, 4932.	1.8	3
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