

# Mechanistic insight into a peptide hormone signaling cascade in plant abscission

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Q&A: How does peptide signaling direct plant development?. BMC Biology, 2016, 14, 58.	3.8	34
2	Allele-Specific Interactions between CAST AWAY and NEVERSHED Control Abscission in Arabidopsis Flowers. Frontiers in Plant Science, 2016, 7, 1588.	3.6	5
3	Precursor processing for plant peptide hormone maturation by subtilisin-like serine proteinases. Science, 2016, 354, 1594-1597.	12.6	118
4	SERKing Coreceptors for Receptors. Trends in Plant Science, 2016, 21, 1017-1033.	8.8	172
5	Regulation of pattern recognition receptor signalling in plants. Nature Reviews Immunology, 2016, 16, 537-552.	22.7	1,031
6	Structural Insight into Recognition of Plant Peptide Hormones by Receptors. Molecular Plant, 2016, 9, 1454-1463.	8.3	35
7	Disrupting ER-associated protein degradation suppresses the abscission defect of a weak <i>hsl2</i> mutant in Arabidopsis. Journal of Experimental Botany, 2016, 67, 5473-5484.	4.8	18
8	CLAVATA 1-type receptors in plant development. Journal of Experimental Botany, 2016, 67, 4827-4833.	4.8	60
9	Root diffusion barrier control by a vasculature-derived peptide binding to the SGN3 receptor. Science, 2017, 355, 280-284.	12.6	211
10	The receptor kinase FER is a RALF-regulated scaffold controlling plant immune signaling. Science, 2017, 355, 287-289.	12.6	541
11	The Structural Basis of Ligand Perception and Signal Activation by Receptor Kinases. Annual Review of Plant Biology, 2017, 68, 109-137.	18.7	247
12	Plant cell wall signalling and receptor-like kinases. Biochemical Journal, 2017, 474, 471-492.	3.7	142
13	Mechanisms and Strategies Shaping Plant Peptide Hormones. Plant and Cell Physiology, 2017, 58, 1313-1318.	3.1	25
14	Two SERK Receptor-Like Kinases Interact with EMS1 to Control Anther Cell Fate Determination. Plant Physiology, 2017, 173, 326-337.	4.8	72
15	In Silico Prediction of Ligand-Binding Sites of Plant Receptor Kinases Using Conservation Mapping. Methods in Molecular Biology, 2017, 1621, 93-105.	0.9	2
16	Perception of root-active <i>CLE</i> peptides requires <i>CORYNE</i> function in the phloem vasculature. EMBO Reports, 2017, 18, 1367-1381.	4.5	80
17	Ligand Receptor-Mediated Regulation of Growth in Plants. Current Topics in Developmental Biology, 2017, 123, 331-363.	2.2	15
18	Receptor Kinases in Plant-Pathogen Interactions: More Than Pattern Recognition. Plant Cell, 2017, 29, 618-637.	6.6	552

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19	Gametophytic Pollen Tube Guidance: Attractant Peptides, Gametic Controls, and Receptors. <i>Plant Physiology</i> , 2017, 173, 112-121.	4.8	100
20	Stem development through vascular tissues: EPFLâ€“ERECTA family signaling that bounces in and out of phloem. <i>Journal of Experimental Botany</i> , 2017, 68, 45-53.	4.8	36
21	Genome-Wide Identification of <i>Medicago</i> Peptides Involved in Macronutrient Responses and Nodulation. <i>Plant Physiology</i> , 2017, 175, 1669-1689.	4.8	101
22	The study of pattern-triggered immunity in <i>Arabidopsis</i> . <i>Canadian Journal of Plant Pathology</i> , 2017, 39, 275-281.	1.4	1
23	Structural basis for receptor recognition of pollen tube attraction peptides. <i>Nature Communications</i> , 2017, 8, 1331.	12.8	55
24	The IDA-LIKE peptides IDL6 and IDL7 are negative modulators of stress responses in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2017, 68, 3557-3571.	4.8	34
25	<scp>IDL</scp>6â€“<scp>HAE</scp>/<scp>HSL</scp>2 impacts pectin degradation and resistance to <i>Pseudomonas syringae</i> pv tomato <scp>DC</scp>3000 in <i>Arabidopsis</i> leaves. <i>Plant Journal</i> , 2017, 89, 250-263.	5.7	80
26	Single-Molecule Fluorescence Methods to Study Plant Hormone Signal Transduction Pathways. <i>Frontiers in Plant Science</i> , 2017, 8, 1888.	3.6	7
27	BAK1 is involved in AtRALF1-induced inhibition of root cell expansion. <i>PLoS Genetics</i> , 2017, 13, e1007053.	3.5	37
28	Leaf shedding as an anti-bacterial defense in <i>Arabidopsis</i> cauline leaves. <i>PLoS Genetics</i> , 2017, 13, e1007132.	3.5	44
29	Abscission in plants. <i>Current Biology</i> , 2018, 28, R338-R339.	3.9	32
30	Ectopic expression of the <i>Coffea canephora</i> SERK1 homologâ€“induced differential transcription of genes involved in auxin metabolism and in the developmental control of embryogenesis. <i>Physiologia Plantarum</i> , 2018, 163, 530-551.	5.2	23
31	The root-knot nematode <i>Meloidogyne incognita</i> produces a functional mimic of the <i>Arabidopsis</i> INFLORESCENCE DEFICIENT IN ABSCISSION signaling peptide. <i>Journal of Experimental Botany</i> , 2018, 69, 3009-3021.	4.8	31
32	Signaling Peptides and Receptors Coordinating Plant Root Development. <i>Trends in Plant Science</i> , 2018, 23, 337-351.	8.8	79
33	Molecular control of stomatal development. <i>Biochemical Journal</i> , 2018, 475, 441-454.	3.7	106
34	Plant cell surface receptor-mediated signaling â€“ a common theme amid diversity. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	134
35	Post-translational maturation of IDA, a peptide signal controlling floral organ abscission in <i>Arabidopsis</i> . <i>Communicative and Integrative Biology</i> , 2018, 11, e1395119.	1.4	9
36	An extracellular network of <i>Arabidopsis</i> leucine-rich repeat receptor kinases. <i>Nature</i> , 2018, 553, 342-346.	27.8	241

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37	A Lignin Molecular Brace Controls Precision Processing of Cell Walls Critical for Surface Integrity in Arabidopsis. <i>Cell</i> , 2018, 173, 1468-1480.e9.	28.9	109
38	INFLORESCENCE DEFICIENT IN ABSCISSION-like is an abscission-associated and phytohormone-regulated gene in flower separation of <i>Lupinus luteus</i> . <i>Plant Growth Regulation</i> , 2018, 85, 91-100.	3.4	30
39	CEP peptide hormones: key players in orchestrating nitrogen-demand signalling, root nodulation, and lateral root development. <i>Journal of Experimental Botany</i> , 2018, 69, 1829-1836.	4.8	72
40	Mechanistic basis for the activation of plant membrane receptor kinases by SERK-family coreceptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3488-3493.	7.1	89
41	From structure to function – a family portrait of plant subtilases. <i>New Phytologist</i> , 2018, 218, 901-915.	7.3	108
42	Advances in abscission signaling. <i>Journal of Experimental Botany</i> , 2018, 69, 733-740.	4.8	80
43	Diverse Peptide Hormones Affecting Root Growth Identified in the <i>Medicago truncatula</i> Secreted Peptidome. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 160-174.	3.8	57
44	Transcriptomic evidence for distinct mechanisms underlying abscission deficiency in the Arabidopsis mutants <i>haesa/haesa-like 2</i> and <i>nevershed</i> . <i>BMC Research Notes</i> , 2018, 11, 754.	1.4	6
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49	The <i>Xanthomonas</i> effector XopK harbours E3 ubiquitin-ligase activity that is required for virulence. <i>New Phytologist</i> , 2018, 220, 219-231.	7.3	47
50	The dynamics of root cap sloughing in <i>Arabidopsis</i> is regulated by peptide signalling. <i>Nature Plants</i> , 2018, 4, 596-604.	9.3	62
51	Impact of Plant Peptides on Symbiotic Nodule Development and Functioning. <i>Frontiers in Plant Science</i> , 2018, 9, 1026.	3.6	44
52	Cloning, Characterization, and Functional Investigation of VaHAESA from <i>Vitis amurensis</i> Inoculated with <i>Plasmopara viticola</i> . <i>International Journal of Molecular Sciences</i> , 2018, 19, 1204.	4.1	10
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56	Regulation of plant peptide hormones and growth factors by post-translational modification. Plant Biology, 2019, 21, 49-63.	3.8	72
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62	SERK Receptor-like Kinases Control Division Patterns of Vascular Precursors and Ground Tissue Stem Cells during Embryo Development in Arabidopsis. Molecular Plant, 2019, 12, 984-1002.	8.3	26
63	Diverse function of plant peptide hormones in local signaling and development. Current Opinion in Plant Biology, 2019, 51, 81-87.	7.1	49
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67	A MAPK cascade downstream of IDA-HAE/HSL2 ligand-receptor pair in lateral root emergence. Nature Plants, 2019, 5, 414-423.	9.3	90
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74	Receptor-Like Protein Kinases Function Upstream of MAPKs in Regulating Plant Development. International Journal of Molecular Sciences, 2020, 21, 7638.	4.1	14
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87	Emerging mechanisms to fine-tune receptor kinase signaling specificity. Current Opinion in Plant Biology, 2020, 57, 41-51.	7.1	9
88	Perception of <i>Agrobacterium tumefaciens</i> flagellin by FLS2XL confers resistance to crown gall disease. Nature Plants, 2020, 6, 22-27.	9.3	46
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90	Molecular mechanism for the recognition of sequence-divergent CIF peptides by the plant receptor kinases GSO1/SGN3 and GSO2. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2693-2703.	7.1	68

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91	KNOX protein KNAT1 regulates fruitlet abscission in litchi by repressing ethylene biosynthetic genes. <i>Journal of Experimental Botany</i> , 2020, 71, 4069-4082.	4.8	35
92	Structural Insights into the Plant Immune Receptors PRRs and NLRs. <i>Plant Physiology</i> , 2020, 182, 1566-1581.	4.8	37
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97	Computational prediction method to decipher receptor-glycoligand interactions in plant immunity. <i>Plant Journal</i> , 2021, 105, 1710-1726.	5.7	14
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100	Perception of a divergent family of phytocytokines by the Arabidopsis receptor kinase MIK2. <i>Nature Communications</i> , 2021, 12, 705.	12.8	71
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110	IDA (INFLORESCENCE DEFICIENT IN ABSCISSION)-like peptides and HAE (HAESA)-like receptors regulate corolla abscission in <i>Nicotiana benthamiana</i> flowers. <i>BMC Plant Biology</i> , 2021, 21, 226.	3.6	13

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111	Brassinosteroids suppress ethylene-induced fruitlet abscission through LcBZR1/2-mediated transcriptional repression of <i>LcACS1</i> and <i>LcACO2</i> in litchi. Horticulture Research, 2021, 8, 105.	6.3	17
112	A new method to visualize CEP hormone-CEP receptor interactions in vascular tissue <i>in vivo</i> . Journal of Experimental Botany, 2021, 72, 6164-6174.	4.8	7
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121	Protein Phosphorylation in Plant Cell Signaling. Methods in Molecular Biology, 2021, 2358, 45-71.	0.9	9
126	Crystal structure of the leucine-rich repeat ectodomain of the plant immune receptor kinase SOBIR1. Acta Crystallographica Section D: Structural Biology, 2019, 75, 488-497.	2.3	11
127	Polyproline II Helix as a Recognition Motif of Plant Peptide Hormones and Flagellin Peptide flg22. Protein and Peptide Letters, 2019, 26, 684-690.	0.9	1
128	Emerging roles of pathogen-secreted host mimics in plant disease development. Trends in Parasitology, 2021, 37, 1082-1095.	3.3	8
134	Genome-Wide Analysis of HAESA/HAESA-Like Kinase Family in Rice. American Journal of Plant Sciences, 2020, 11, 1254-1269.	0.8	0
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136	Crystal structure of the extracellular domain of the receptor-like kinase TMK3 from <i>Arabidopsis thaliana</i> . Acta Crystallographica Section F, Structural Biology Communications, 2020, 76, 384-390.	0.8	3
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139	DeepLRR: An Online Webserver for Leucine-Rich-Repeat Containing Protein Characterization Based on Deep Learning. <i>Plants</i> , 2022, 11, 136.	3.5	5
140	Receptor-like protein kinases in plant reproduction: Current understanding and future perspectives. <i>Plant Communications</i> , 2022, 3, 100273.	7.7	16
141	Essential roles of SERKs in the ROOT MERISTEM GROWTH FACTOR-mediated signaling pathway. <i>Plant Physiology</i> , 2022, 189, 165-177.	4.8	11
142	MAP kinase cascades in plant development and immune signaling. <i>EMBO Reports</i> , 2022, 23, e53817.	4.5	41
143	HSL1 and BAM1/2 impact epidermal cell development by sensing distinct signaling peptides. <i>Nature Communications</i> , 2022, 13, 876.	12.8	24
145	Phytocytokine signalling reopens stomata in plant immunity and water loss. <i>Nature</i> , 2022, 605, 332-339.	27.8	64
146	Perception of a conserved family of plant signalling peptides by the receptor kinase HSL3. <i>ELife</i> , 0, 11, .	6.0	20
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155	PEP7 acts as a peptide ligand for the receptor kinase SIRK1 to regulate aquaporin-mediated water influx and lateral root growth. <i>Molecular Plant</i> , 2022, 15, 1615-1631.	8.3	11
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157	Involvement of IDA-HAE Module in Natural Development of Tomato Flower Abscission. <i>Plants</i> , 2023, 12, 185.	3.5	3
158	Mechanisms controlling plant proteases and their substrates. <i>Cell Death and Differentiation</i> , 2023, 30, 1047-1058.	11.2	1
159	Brt9SIDA/IDALs as peptide signals mediate diverse biological pathways in plants. <i>Plant Science</i> , 2023, 330, 111642.	3.6	0
160	Morphological Characterization of Metamorphosis in Stamens of Anemone barbulata Turcz. (Ranunculaceae). <i>Agronomy</i> , 2023, 13, 554.	3.0	1

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163	Structural insight of peptide-ligand recognition by plant membrane receptors. <i>Plant Morphology</i> , 2022, 34, 29-36.	0.1	0
164	Functional Expression of the Ectodomain of Plant Receptor Kinases in Plant Suspension Culture. <i>Methods in Molecular Biology</i> , 2023, , 129-143.	0.9	0
165	Ectopic Expression of AGAMOUS-like 18 from Litchi ( <i>Litchi chinensis</i> Sonn.) Delayed the Floral Organ Abscission in Arabidopsis. <i>Horticulturae</i> , 2023, 9, 578.	2.8	0
166	Genomic loci associated with leaf abscission contribute to machine picking and environmental adaptability in upland cotton ( <i>Gossypium hirsutum</i> L.). <i>Journal of Advanced Research</i> , 2024, 58, 31-43.	9.5	1
167	Mobile Signaling Peptides: Secret Molecular Messengers with a Mighty Role in Plant Life. <i>Journal of Plant Growth Regulation</i> , 2023, 42, 6801-6834.	5.1	0
168	Peptidomics Methods Applied to the Study of Flower Development. <i>Methods in Molecular Biology</i> , 2023, , 509-536.	0.9	0
169	Reproductive defects in the abscission mutant <i>ida-2</i> are caused by T-DNA-induced genomic rearrangements. <i>Plant Physiology</i> , 2023, 193, 2292-2297.	4.8	3
170	Plant abscission: An age-old yet ongoing challenge in future agriculture. <i>Journal of Plant Biotechnology</i> , 0, 50, .	0.4	0
172	Asymmetric Evolution of Protein Domains in the Leucine-Rich Repeat Receptor-Like Kinase Family of Plant Signaling Proteins. <i>Molecular Biology and Evolution</i> , 2023, 40, .	8.9	2
173	Studying the Effect of Dense Planting on the Mechanism of Flower Abscission in Soybean through Combined Transcriptome-Metabolome Analysis. <i>Agronomy</i> , 2023, 13, 2561.	3.0	0
175	An update on evolutionary, structural, and functional studies of receptor-like kinases in plants. <i>Frontiers in Plant Science</i> , 0, 15, .	3.6	0
176	Small but mighty: Peptides regulating abiotic stress responses in plants. <i>Plant, Cell and Environment</i> , 2024, 47, 1207-1223.	5.7	1
178	Dissection of the <i>IDA</i> promoter identifies WRKY transcription factors as abscission regulators in Arabidopsis. <i>Journal of Experimental Botany</i> , 2024, 75, 2417-2434.	4.8	0
179	The transcriptional control of LcIDL1-LcHSL2 complex by LcARF5 integrates auxin and ethylene signaling for litchi fruitlet abscission. <i>Journal of Integrative Plant Biology</i> , 0, , .	8.5	0