

# Masaaki Umeda

## List of Publications by Year in descending order

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68  
papers

4,942  
citations

109321

35  
h-index

114465

63  
g-index

74  
all docs

74  
docs citations

74  
times ranked

5236  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into Land Plant Evolution Garnered from the <i>Marchantia polymorpha</i> Genome. <i>Cell</i> , 2017, 171, 287-304.e15.	28.9	973
2	Programmed induction of endoreduplication by DNA double-strand breaks in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10004-10009.	7.1	252
3	CDK-related protein kinases in plants. <i>Plant Molecular Biology</i> , 2000, 43, 607-620.	3.9	221
4	Hormonal control of cell division and elongation along differentiation trajectories in roots. <i>Journal of Experimental Botany</i> , 2014, 65, 2633-2643.	4.8	194
5	SUMO E3 Ligase HIGH PLOIDY2 Regulates Endocycle Onset and Meristem Maintenance in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2009, 21, 2284-2297.	6.6	186
6	The <i>Arabidopsis</i> SIAMESE-RELATED Cyclin-Dependent Kinase Inhibitors SMR5 and SMR7 Regulate the DNA Damage Checkpoint in Response to Reactive Oxygen Species. <i>Plant Cell</i> , 2014, 26, 296-309.	6.6	164
7	ATM-mediated phosphorylation of SOG1 is essential for the DNA damage response in <i>Arabidopsis</i> . <i>EMBO Reports</i> , 2013, 14, 817-822.	4.5	154
8	Targeted Degradation of the Cyclin-Dependent Kinase Inhibitor ICK4/KRP6 by RING-Type E3 Ligases Is Essential for Mitotic Cell Cycle Progression during <i>Arabidopsis</i> Gametogenesis. <i>Plant Cell</i> , 2008, 20, 1538-1554.	6.6	142
9	Auxin modulates the transition from the mitotic cycle to the endocycle in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2010, 137, 63-71.	2.5	131
10	Condensin II Alleviates DNA Damage and Is Essential for Tolerance of Boron Overload Stress in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 3533-3546.	6.6	128
11	Transcriptional repression by MYB 3R proteins regulates plant organ growth. <i>EMBO Journal</i> , 2015, 34, 1992-2007.	7.8	128
12	Identifying the target genes of SUPPRESSOR OF GAMMA RESPONSE 1, a master transcription factor controlling DNA damage response in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2018, 94, 439-453.	5.7	127
13	The plant-specific CDKB 1-CYCB 1 complex mediates homologous recombination repair in <i>Arabidopsis</i> . <i>EMBO Journal</i> , 2016, 35, 2068-2086.	7.8	119
14	Rapid Elimination of the Persistent Synergid through a Cell Fusion Mechanism. <i>Cell</i> , 2015, 161, 907-918.	28.9	111
15	Synthesis of Very-Long-Chain Fatty Acids in the Epidermis Controls Plant Organ Growth by Restricting Cell Proliferation. <i>PLoS Biology</i> , 2013, 11, e1001531.	5.6	107
16	Control of Cell Division and Transcription by Cyclin-dependent Kinase-activating Kinases in Plants. <i>Plant and Cell Physiology</i> , 2005, 46, 1437-1442.	3.1	95
17	Cytokinins Control Endocycle Onset by Promoting the Expression of an APC/C Activator in <i>Arabidopsis</i> Roots. <i>Current Biology</i> , 2013, 23, 1812-1817.	3.9	92
18	A regulatory module controlling stress-induced cell cycle arrest in <i>Arabidopsis</i> . <i>ELife</i> , 2019, 8, .	6.0	86

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19	The Arabidopsis D-Type Cyclin CYCD4 Controls Cell Division in the Stomatal Lineage of the Hypocotyl Epidermis. <i>Plant Cell</i> , 2007, 19, 1265-1277.	6.6	73
20	Arabidopsis D-Type Cyclin CYCD4;1 Is a Novel Cyclin Partner of B2-Type Cyclin-Dependent Kinase. <i>Plant Physiology</i> , 2003, 132, 1315-1321.	4.8	72
21	The Plant-Specific Kinase CDKF;1 Is Involved in Activating Phosphorylation of Cyclin-Dependent Kinase-Activating Kinases in Arabidopsis. <i>Plant Cell</i> , 2004, 16, 2954-2966.	6.6	70
22	The role of SOG1, a plant-specific transcriptional regulator, in the DNA damage response. <i>Plant Signaling and Behavior</i> , 2014, 9, e28889.	2.4	70
23	Regulation of the Plant Cell Cycle in Response to Hormones and the Environment. <i>Annual Review of Plant Biology</i> , 2021, 72, 273-296.	18.7	63
24	Activation of CDK-activating kinase is dependent on interaction with H-type cyclins in plants. <i>Plant Journal</i> , 2000, 24, 11-20.	5.7	62
25	Cell-Cycle Control and Plant Development. <i>International Review of Cell and Molecular Biology</i> , 2011, 291, 227-261.	3.2	61
26	A dual-color marker system for <i>in vivo</i> visualization of cell cycle progression in Arabidopsis. <i>Plant Journal</i> , 2014, 80, 541-552.	5.7	61
27	The cell cycle genes <i>cycA1;1</i> and <i>cdc2Os-3</i> are coordinately regulated by gibberellin in plants. <i>Planta</i> , 2000, 211, 376-383.	3.2	60
28	A rice homolog of Cdk7/MO15 phosphorylates both cyclin-dependent protein kinases and the carboxy-terminal domain of RNA polymerase II. <i>Plant Journal</i> , 1998, 16, 613-619.	5.7	59
29	Cyclin-dependent kinase-activating kinases CDKD;1 and CDKD;3 are essential for preserving mitotic activity in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2015, 82, 1004-1017.	5.7	58
30	Arabidopsis R1R2R3-Myb proteins are essential for inhibiting cell division in response to DNA damage. <i>Nature Communications</i> , 2017, 8, 635.	12.8	56
31	Diverse phosphoregulatory mechanisms controlling cyclin-dependent kinase-activating kinases in Arabidopsis. <i>Plant Journal</i> , 2006, 47, 701-710x.	5.7	54
32	The Arabidopsis cyclin-dependent kinase-activating kinase CDKF;1 is a major regulator of cell proliferation and cell expansion but is dispensable for CDKA activation. <i>Plant Journal</i> , 2009, 59, 475-487.	5.7	48
33	Differential phosphorylation activities of CDK-activating kinases in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2003, 534, 69-74.	2.8	47
34	Actin Reorganization Triggers Rapid Cell Elongation in Roots. <i>Plant Physiology</i> , 2018, 178, 1130-1141.	4.8	43
35	The Rice Cyclin-Dependent Kinase-Activating Kinase R2 Regulates S-Phase Progression. <i>Plant Cell</i> , 2002, 14, 197-210.	6.6	42
36	Epigenetic Control of Cell Division and Cell Differentiation in the Root Apex. <i>Frontiers in Plant Science</i> , 2015, 6, 1178.	3.6	42

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37	Cytokinin Signaling Is Essential for Organ Formation in <i>Marchantia polymorpha</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 1842-1854.	3.1	41
38	Two <i>Arabidopsis</i> cyclin A3s possess G1 cyclin-like features. <i>Plant Cell Reports</i> , 2010, 29, 307-315.	5.6	40
39	The <i>Arabidopsis</i> NRT1/PTR FAMILY protein NPF7.3/NRT1.5 is an indole-3-butyric acid transporter involved in root gravitropism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31500-31509.	7.1	32
40	Very long-chain fatty acids have an essential role in plastid division by controlling Z-ring formation in <i>Arabidopsis thaliana</i> . <i>Genes To Cells</i> , 2012, 17, 709-719.	1.2	29
41	Kip-Related Protein 3 Is Required for Control of Endoreduplication in the Shoot Apical Meristem and Leaves of <i>Arabidopsis</i> . <i>Molecules and Cells</i> , 2013, 35, 47-53.	2.6	29
42	Expression of B2-Type Cyclin-Dependent Kinase is Controlled by Protein Degradation in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2006, 47, 1683-1686.	3.1	27
43	DNA double-strand breaks induce the expression of flavin-containing monooxygenase and reduce root meristem size in <i>Arabidopsis thaliana</i> . <i>Genes To Cells</i> , 2015, 20, 636-646.	1.2	26
44	CDKD-dependent activation of CDKA;1 controls microtubule dynamics and cytokinesis during meiosis. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	26
45	ABA inhibits root cell elongation through repressing the cytokinin signaling. <i>Plant Signaling and Behavior</i> , 2019, 14, e1578632.	2.4	23
46	YTOXININ-RESPONSIVE GROWTH REGULATOR regulates cell expansion and cytokinin-mediated cell cycle progression. <i>Plant Physiology</i> , 2021, 186, 1734-1746.	4.8	22
47	Quantitative and cell type-specific transcriptional regulation of A-type cyclin-dependent kinase in <i>Arabidopsis thaliana</i> . <i>Developmental Biology</i> , 2009, 329, 306-314.	2.0	20
48	A distinct type of cyclin D, CYCD4;2, involved in the activation of cell division in <i>Arabidopsis</i> . <i>Plant Cell Reports</i> , 2006, 25, 540-545.	5.6	19
49	Plant stem cell research is uncovering the secrets of longevity and persistent growth. <i>Plant Journal</i> , 2021, 106, 326-335.	5.7	19
50	Combination of Synthetic Chemistry and Live-Cell Imaging Identified a Rapid Cell Division Inhibitor in Tobacco and <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2016, 57, 2255-2268.	3.1	18
51	Potential roles for autophosphorylation, kinase activity, and abundance of a CDK-activating kinase (Ee;CDKF;1) during growth in leafy spurge. <i>Plant Molecular Biology</i> , 2007, 63, 365-379.	3.9	11
52	Cryptogein-Induced Cell Cycle Arrest at G2 Phase is Associated with Inhibition of Cyclin-Dependent Kinases, Suppression of Expression of Cell Cycle-Related Genes and Protein Degradation in Synchronized Tobacco BY-2 Cells. <i>Plant and Cell Physiology</i> , 2011, 52, 922-932.	3.1	11
53	DNA damage inhibits lateral root formation by up-regulating cytokinin biosynthesis genes in <i>Arabidopsis thaliana</i> . <i>Genes To Cells</i> , 2016, 21, 1195-1208.	1.2	11
54	Gap 2 phase: making the fundamental decision to divide or not. <i>Current Opinion in Plant Biology</i> , 2019, 51, 1-6.	7.1	11

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55	Differential regulation of B2-type CDK accumulation in Arabidopsis roots. <i>Plant Cell Reports</i> , 2014, 33, 1033-1040.	5.6	10
56	SUPPRESSOR OF GAMMA RESPONSE 1 acts as a regulator coordinating crosstalk between DNA damage response and immune response in Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2020, 103, 321-340.	3.9	10
57	Alterations in hormonal signals spatially coordinate distinct responses to DNA double-strand breaks in <i>Arabidopsis</i> roots. <i>Science Advances</i> , 2021, 7, .	10.3	10
58	Cytokinin signaling coordinates development of diverse organs in <i>Marchantia polymorpha</i> . <i>Plant Signaling and Behavior</i> , 2019, 14, 1668232.	2.4	8
59	ANAC044 is associated with P reutilization in P deficient Arabidopsis thaliana root cell wall in an ethylene dependent manner. <i>Environmental and Experimental Botany</i> , 2021, 185, 104386.	4.2	8
60	Arabidopsis thaliana subclass I ACTIN DEPOLYMERIZING FACTORS and vegetative ACTIN2/8 are novel regulators of endoreplication. <i>Journal of Plant Research</i> , 2021, 134, 1291-1300.	2.4	6
61	CDK Phosphorylation. , 0, , 114-137.		4
62	Cytrap Marker Systems for In Vivo Visualization of Cell Cycle Progression in Arabidopsis. <i>Methods in Molecular Biology</i> , 2016, 1370, 51-57.	0.9	4
63	Genome Maintenance Mechanisms at the Chromatin Level. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10384.	4.1	3
64	CFI 25 Subunit of Cleavage Factor I is Important for Maintaining the Diversity of 3' UTR Lengths in <i>Arabidopsis thaliana</i> (L.) Heynh.. <i>Plant and Cell Physiology</i> , 2022, 63, 369-383.	3.1	3
65	Cell Cycle. , 2014, , 1-19.		1
66	Editorial overview: How plants transform signaling cues into changes in gene expression. <i>Current Opinion in Plant Biology</i> , 2019, 51, A1-A3.	7.1	0
67	Whole-Mount for the Identification of in the Nuclei of. <i>Methods in Molecular Biology</i> , 2021, 2329, 71-80.	0.9	0
68	Preface to the special issue "Stem cell reformation in plants". <i>Plant Biotechnology</i> , 2022, 39, 1-4.	1.0	0