Joseph J Kieber

List of Publications by Year in Descending Order

117 papers	15,156 citations	65 h-index	123 g-index
137 ext. papers	17,672 ext. citations	8.5 avg, IF	6.75 L-index

#	Paper	IF	Citations
117	Heat Stress Targeting Individual Organs Reveals the Central Role of Roots and Crowns in Rice Stress Responses.. *Frontiers in Plant Science*, **2021**, 12, 799249	6.2	3
116	Meta-analysis of transcriptomic studies of cytokinin-treated rice roots defines a core set of cytokinin response genes. *Plant Journal*, **2021**, 107, 1387-1402	6.9	1
115	Function of the pseudo phosphotransfer proteins has diverged between rice and Arabidopsis. *Plant Journal*, **2021**, 106, 159-173	6.9	2
114	Dynamic Construction, Perception, and Remodeling of Plant Cell Walls. *Annual Review of Plant Biology*, **2020**, 71, 39-69	30.7	53
113	EXO70D isoforms mediate selective autophagic degradation of type-A ARR proteins to regulate cytokinin sensitivity. *Proceedings of the National Academy of Sciences of the United States of America* , **2020**, 117, 27034-27043	11.5	9
112	The HK5 and HK6 cytokinin receptors mediate diverse developmental pathways in rice. *Development (Cambridge)*, **2020**, 147,	6.6	10
111	Functional Analysis of the Rice Type-B Response Regulator RR22. *Frontiers in Plant Science*, **2020**, 11, 577676	6.2	1
110	Mutagenomics: A Rapid, High-Throughput Method to Identify Causative Mutations from a Genetic Screen. *Plant Physiology*, **2020**, 184, 1658-1673	6.6	4
109	Type-B response regulators of rice play key roles in growth, development and cytokinin signaling. *Development (Cambridge)*, **2019**, 146,	6.6	18
108	Response Regulators 9 and 10 Negatively Regulate Salinity Tolerance in Rice. *Plant and Cell Physiology*, **2019**, 60, 2549-2563	4.9	32
107	Using indCAPS to Detect CRISPR/Cas9 Induced Mutations. *Bio-protocol*, **2019**, 9, e3374	0.9	
106	1-Aminocyclopropane 1-Carboxylic Acid and Its Emerging Role as an Ethylene-Independent Growth Regulator. *Frontiers in Plant Science*, **2019**, 10, 1602	6.2	25
105	The Regulation of Cellulose Biosynthesis in Plants. *Plant Cell*, **2019**, 31, 282-296	11.6	76
104	Cytokinin signaling in plant development. *Development (Cambridge)*, **2018**, 145,	6.6	246
103	Coordination of Chloroplast Development through the Action of the GNC and GLK Transcription Factor Families. *Plant Physiology*, **2018**, 178, 130-147	6.6	30
102	A role for two-component signaling elements in the Arabidopsis growth recovery response to ethylene. *Plant Direct*, **2018**, 2, e00058	3.3	9
101	The Formation of ACC and Competition between Polyamines and Ethylene for SAM **2018**, 53-81		3

100	Cytokinin modulates context-dependent chromatin accessibility through the type-B response regulators. *Nature Plants*, **2018**, 4, 1102-1111	11.5	22
99	SHOU4 Proteins Regulate Trafficking of Cellulose Synthase Complexes to the Plasma Membrane. *Current Biology*, **2018**, 28, 3174-3182.e6	6.3	25
98	Role of BASIC PENTACYSTEINE transcription factors in a subset of cytokinin signaling responses. *Plant Journal*, **2018**, 95, 458-473	6.9	18
97	Regulation of the turnover of ACC synthases by phytohormones and heterodimerization in Arabidopsis. *Plant Journal*, **2017**, 91, 491-504	6.9	31
96	Dynamic patterns of expression for genes regulating cytokinin metabolism and signaling during rice inflorescence development. *PLoS ONE*, **2017**, 12, e0176060	3.7	30
95	Cytokinin induces genome-wide binding of the type-B response regulator ARR10 to regulate growth and development in. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E5995-E6004	11.5	99
94	indCAPS: A tool for designing screening primers for CRISPR/Cas9 mutagenesis events. *PLoS ONE*, **2017**, 12, e0188406	3.7	10
93	Pseudomonas syringae type III effector HopAF1 suppresses plant immunity by targeting methionine recycling to block ethylene induction. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E3577-86	11.5	29
92	The Role of Cytokinin During Infection of Arabidopsis thaliana by the Cyst Nematode Heterodera schachtii. *Molecular Plant-Microbe Interactions*, **2016**, 29, 57-68	3.6	26
91	Characterization of the cytokinin-responsive transcriptome in rice. *BMC Plant Biology*, **2016**, 16, 260	5.3	27
90	The cytokinin response factors modulate root and shoot growth and promote leaf senescence in Arabidopsis. *Plant Journal*, **2016**, 85, 134-47	6.9	72
89	Cytokinin acts through the auxin influx carrier AUX1 to regulate cell elongation in the root. *Development (Cambridge)*, **2016**, 143, 3982-3993	6.6	38
88	The yin-yang of hormones: cytokinin and auxin interactions in plant development. *Plant Cell*, **2015**, 27, 44-63	11.6	306
87	Cytokinin is required for escape but not release from auxin mediated apical dominance. *Plant Journal*, **2015**, 82, 874-86	6.9	95
86	COBRA-LIKE2, a member of the glycosylphosphatidylinositol-anchored COBRA-LIKE family, plays a role in cellulose deposition in arabidopsis seed coat mucilage secretory cells. *Plant Physiology*, **2015** , 167, 711-24	6.6	55
85	Ethylene Inhibits Cell Proliferation of the Arabidopsis Root Meristem. *Plant Physiology*, **2015**, 169, 338-50	6.6	92
84	The Plant Cell Introduces Breakthrough Reports: A New Forum for Cutting-Edge Plant Research. *Plant Cell*, **2015**, tpc.15.00862	11.6	78
83	Cytokinin Signaling in Plants **2014**, 269-289		2

82	Cytokinin and the cell cycle. *Current Opinion in Plant Biology*, **2014**, 21, 7-15	9.9	143
81	Signaling: Cytokinin Signaling **2014**, 1-19		2
80	Cytokinins. *The Arabidopsis Book*, **2014**, 12, e0168	3	309
79	Alterations in auxin homeostasis suppress defects in cell wall function. *PLoS ONE*, **2014**, 9, e98193	3.7	18
78	Cytokinin induces cell division in the quiescent center of the Arabidopsis root apical meristem. *Current Biology*, **2013**, 23, 1979-89	6.3	111
77	Cytokinin-dependent specification of the functional megaspore in the Arabidopsis female gametophyte. *Plant Journal*, **2013**, 73, 929-40	6.9	52
76	14-3-3 regulates 1-aminocyclopropane-1-carboxylate synthase protein turnover in Arabidopsis. *Plant Cell*, **2013**, 25, 1016-28	11.6	81
75	Functional characterization of type-B response regulators in the Arabidopsis cytokinin response. *Plant Physiology*, **2013**, 162, 212-24	6.6	63
74	Identification of cytokinin-responsive genes using microarray meta-analysis and RNA-Seq in Arabidopsis. *Plant Physiology*, **2013**, 162, 272-94	6.6	172
73	The role of cytokinin in ovule development in Arabidopsis. *Plant Signaling and Behavior*, **2013**, 8, e23393	2.5	11
72	The rice F-box protein KISS ME DEADLY2 functions as a negative regulator of cytokinin signalling. *Plant Signaling and Behavior*, **2013**, 8, e26434	2.5	12
71	ACC synthase and its cognate E3 ligase are inversely regulated by light. *Plant Signaling and Behavior* , **2013**, 8, e26478	2.5	11
70	SCF(KMD) controls cytokinin signaling by regulating the degradation of type-B response regulators. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 10028-33	11.5	80
69	Characterization of genes involved in cytokinin signaling and metabolism from rice. *Plant Physiology*, **2012**, 158, 1666-84	6.6	129
68	Two-component elements mediate interactions between cytokinin and salicylic acid in plant immunity. *PLoS Genetics*, **2012**, 8, e1002448	6	161
67	The Formation of ACC and Competition Between Polyamines and Ethylene for SAM **2012**, 53-81		37
66	CTR1 phosphorylates the central regulator EIN2 to control ethylene hormone signaling from the ER membrane to the nucleus in Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 19486-91	11.5	380
65	The FEI2-SOS5 pathway and CELLULOSE SYNTHASE 5 are required for cellulose biosynthesis in the Arabidopsis seed coat and affect pectin mucilage structure. *Plant Signaling and Behavior*, **2012**, 7, 285-8	2.5	27

64	Functional characterization of the GATA transcription factors GNC and CGA1 reveals their key role in chloroplast development, growth, and division in Arabidopsis. *Plant Physiology*, **2012**, 160, 332-48	6.6	113
63	Type-A response regulators are required for proper root apical meristem function through post-transcriptional regulation of PIN auxin efflux carriers. *Plant Journal*, **2011**, 68, 1-10	6.9	87
62	Cellulose synthesis via the FEI2 RLK/SOS5 pathway and cellulose synthase 5 is required for the structure of seed coat mucilage in Arabidopsis. *Plant Journal*, **2011**, 68, 941-53	6.9	109
61	The influence of cytokinin-auxin cross-regulation on cell-fate determination in Arabidopsis thaliana root development. *Journal of Theoretical Biology*, **2011**, 283, 152-67	2.3	36
60	CLE peptides can negatively regulate protoxylem vessel formation via cytokinin signaling. *Plant and Cell Physiology*, **2011**, 52, 37-48	4.9	99
59	Protein phosphatase 2A controls ethylene biosynthesis by differentially regulating the turnover of ACC synthase isoforms. *PLoS Genetics*, **2011**, 7, e1001370	6	102
58	The subcellular distribution of the Arabidopsis histidine phosphotransfer proteins is independent of cytokinin signaling. *Plant Journal*, **2010**, 62, 473-82	6.9	74
57	Type-B response regulators ARR1 and ARR12 regulate expression of AtHKT1;1 and accumulation of sodium in Arabidopsis shoots. *Plant Journal*, **2010**, 64, 753-63	6.9	106
56	The role of receptor-like kinases in regulating cell wall function. *Plant Physiology*, **2010**, 153, 479-84	6.6	65
55	Localization of the Arabidopsis histidine phosphotransfer proteins is independent of cytokinin. *Plant Signaling and Behavior*, **2010**, 5, 896-8	2.5	17
54	The perception of cytokinin: a story 50 years in the making. *Plant Physiology*, **2010**, 154, 487-92	6.6	52
53	Cytokinin signaling and transcriptional networks. *Current Opinion in Plant Biology*, **2010**, 13, 533-9	9.9	106
52	Role of A-type ARABIDOPSIS RESPONSE REGULATORS in meristem maintenance and regeneration. *European Journal of Cell Biology*, **2010**, 89, 279-84	6.1	76
51	Environmental perception avenues: the interaction of cytokinin and environmental response pathways. *Plant, Cell and Environment*, **2009**, 32, 1147-60	8.4	264
50	The BTB ubiquitin ligases ETO1, EOL1 and EOL2 act collectively to regulate ethylene biosynthesis in Arabidopsis by controlling type-2 ACC synthase levels. *Plant Journal*, **2009**, 57, 332-45	6.9	138
49	Regulation of ACS protein stability by cytokinin and brassinosteroid. *Plant Journal*, **2009**, 57, 606-14	6.9	159
48	Cytosolic activity of SPINDLY implies the existence of a DELLA-independent gibberellin-response pathway. *Plant Journal*, **2009**, 58, 979-88	6.9	31
47	Cytokinin signaling: two-components and more. *Trends in Plant Science*, **2008**, 13, 85-92	13.1	298

46	Two-component signaling elements and histidyl-aspartyl phosphorelays. *The Arabidopsis Book*, **2008**, 6, e0112	3	102
45	Two leucine-rich repeat receptor kinases mediate signaling, linking cell wall biosynthesis and ACC synthase in Arabidopsis. *Plant Cell*, **2008**, 20, 3065-79	11.6	226
44	Type B response regulators of Arabidopsis play key roles in cytokinin signaling and plant development. *Plant Cell*, **2008**, 20, 2102-16	11.6	285
43	Cytokinin regulates type-A Arabidopsis Response Regulator activity and protein stability via two-component phosphorelay. *Plant Cell*, **2007**, 19, 3901-14	11.6	177
42	Regulation of Ethylene Biosynthesis. *Journal of Plant Growth Regulation*, **2007**, 26, 92-105	4.7	191
41	Signaling via Histidine-Containing Phosphotransfer Proteins in Arabidopsis. *Plant Signaling and Behavior*, **2007**, 2, 287-9	2.5	13
40	Nomenclature for two-component signaling elements of rice. *Plant Physiology*, **2007**, 143, 555-7	6.6	56
39	The Arabidopsis histidine phosphotransfer proteins are redundant positive regulators of cytokinin signaling. *Plant Cell*, **2006**, 18, 3073-87	11.6	313
38	A subset of Arabidopsis AP2 transcription factors mediates cytokinin responses in concert with a two-component pathway. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 11081-5	11.5	283
37	RCN1-regulated phosphatase activity and EIN2 modulate hypocotyl gravitropism by a mechanism that does not require ethylene signaling. *Plant Physiology*, **2006**, 141, 1617-29	6.6	48
36	Arabidopsis response regulators ARR3 and ARR4 play cytokinin-independent roles in the control of circadian period. *Plant Cell*, **2006**, 18, 55-69	11.6	113
35	Eto Brute? Role of ACS turnover in regulating ethylene biosynthesis. *Trends in Plant Science*, **2005**, 10, 291-6	13.1	180
34	The interaction of cytokinin with other signals. *Physiologia Plantarum*, **2005**, 123, 184-194	4.6	50
33	WUSCHEL controls meristem function by direct regulation of cytokinin-inducible response regulators. *Nature*, **2005**, 438, 1172-5	50.4	620
32	Cytokinin signaling. *Current Opinion in Plant Biology*, **2005**, 8, 518-25	9.9	210
31	Multiple type-B response regulators mediate cytokinin signal transduction in Arabidopsis. *Plant Cell* , **2005**, 17, 3007-18	11.6	315
30	Type-A Arabidopsis response regulators are partially redundant negative regulators of cytokinin signaling. *Plant Cell*, **2004**, 16, 658-71	11.6	503
29	Type-B response regulators display overlapping expression patterns in Arabidopsis. *Plant Physiology*, **2004**, 135, 927-37	6.6	133

28	Cytokinins play opposite roles in lateral root formation, and nematode and Rhizobial symbioses. *Plant Journal*, **2004**, 38, 203-14	6.9	269
27	Identification of a new motif for CDPK phosphorylation in vitro that suggests ACC synthase may be a CDPK substrate. *Archives of Biochemistry and Biophysics*, **2004**, 428, 81-91	4.1	119
26	Localization of the Raf-like kinase CTR1 to the endoplasmic reticulum of Arabidopsis through participation in ethylene receptor signaling complexes. *Journal of Biological Chemistry*, **2003**, 278, 34725-32	5.4	272
25	Biochemical and functional analysis of CTR1, a protein kinase that negatively regulates ethylene signaling in Arabidopsis. *Plant Journal*, **2003**, 33, 221-33	6.9	307
24	The eto1, eto2, and eto3 mutations and cytokinin treatment increase ethylene biosynthesis in Arabidopsis by increasing the stability of ACS protein. *Plant Cell*, **2003**, 15, 545-59	11.6	309
23	Expression profiling of cytokinin action in Arabidopsis. *Plant Physiology*, **2003**, 132, 1998-2011	6.6	233
22	Tribute to Folke Skoog: Recent Advances in our Understanding of Cytokinin Biology. *Journal of Plant Growth Regulation*, **2002**, 21, 1-2	4.7	14
21	Cytokinins. New insights into a classic phytohormone. *Plant Physiology*, **2002**, 128, 354-62	6.6	270
20	Cytokinin signaling in Arabidopsis. *Plant Cell*, **2002**, 14 Suppl, S47-59	11.6	149
19	Cytokinins. *The Arabidopsis Book*, **2002**, 1, e0063	3	21
18	A rapid cytokinin response assay in Arabidopsis indicates a role for phospholipase D in cytokinin signalling. *FEBS Letters*, **2002**, 515, 39-43	3.8	84
17	ATMPK4, an Arabidopsis homolog of mitogen-activated protein kinase, is activated in vitro by AtMEK1 through threonine phosphorylation. *Plant Physiology*, **2000**, 122, 1301-10	6.6	131
16	A strong loss-of-function mutation in RAN1 results in constitutive activation of the ethylene response pathway as well as a rosette-lethal phenotype. *Plant Cell*, **2000**, 12, 443-55	11.6	195
15	Characterization of the response of the Arabidopsis response regulator gene family to cytokinin. *Plant Physiology*, **2000**, 124, 1706-17	6.6	465
14	Factors regulating ethylene biosynthesis in etiolated Arabidopsis thaliana seedlings. *Physiologia Plantarum*, **1999**, 105, 478-484	4.6	64
13	Phosphorelay signal transduction: the emerging family of plant response regulators. *Trends in Biochemical Sciences*, **1999**, 24, 452-6	10.3	89
12	Molecular mechanisms of cytokinin action. *Current Opinion in Plant Biology*, **1999**, 2, 359-64	9.9	86
11	Two Arabidopsis mutants that overproduce ethylene are affected in the posttranscriptional regulation of 1-aminocyclopropane-1-carboxylic acid synthase. *Plant Physiology*, **1999**, 119, 521-30	6.6	189

10	RESPONSIVE-TO-ANTAGONIST1, a Menkes/Wilson disease-related copper transporter, is required for ethylene signaling in Arabidopsis. *Cell*, **1999**, 97, 383-93	56.2	351
9	Two genes with similarity to bacterial response regulators are rapidly and specifically induced by cytokinin in Arabidopsis. *Plant Cell*, **1998**, 10, 1009-19	11.6	331
8	Two Genes with Similarity to Bacterial Response Regulators Are Rapidly and Specifically Induced by Cytokinin in Arabidopsis. *Plant Cell*, **1998**, 10, 1009	11.6	1
7	Isolation and characterization of Arabidopsis mutants defective in the induction of ethylene biosynthesis by cytokinin. *Genetics*, **1998**, 149, 417-27	4	105
6	The ethylene signal transduction pathway in Arabidopsis. *Journal of Experimental Botany*, **1997**, 48, 211-8	7	35
5	The ethylene response pathway in Arabidopsis. *Annual Review of Plant Biology*, **1997**, 48, 277-96		159
4	CTR1, a negative regulator of the ethylene response pathway in Arabidopsis, encodes a member of the raf family of protein kinases. *Cell*, **1993**, 72, 427-41	56.2	1640
3	Ethylene gas: it's not just for ripening any more!. *Trends in Genetics*, **1993**, 9, 356-62	8.5	71
2	Cloning and Characterization of an Arabidopsis thaliana Topoisomerase I Gene. *Plant Physiology*, **1992**, 99, 1493-501	6.6	38
1	Cloning and characterization of an inorganic pyrophosphatase gene from Arabidopsis thaliana. *Plant Molecular Biology*, **1991**, 16, 345-8	4.6	27