# Joseph J Kieber

List of Publications by Year
in descending order

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|---|---|---|---|
| 117 papers | 19,192 citations | 12330 69 h-index | 20358 116 g-index |
| 137 all docs | 137 docs citations | 137 times ranked | 11966 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Integrated omics reveal novel functions and underlying mechanisms of the receptor kinase FERONIA in<i>Arabidopsis thaliana</i>. Plant Cell, 2022, 34, 2594-2614. | 6.6 | 18 |
| 2 | Function of the pseudo phosphotransfer proteins has diverged between rice and Arabidopsis. Plant Journal, 2021, 106, 159-173. | 5.7 | 7 |
| 3 | Metaâ€analysis of transcriptomic studies of cytokininâ€treated rice roots defines a core set of cytokinin response genes. Plant Journal, 2021, 107, 1387-1402. | 5.7 | 4 |
| 4 | Heat Stress Targeting Individual Organs Reveals the Central Role of Roots and Crowns in Rice Stress Responses. Frontiers in Plant Science, 2021, 12, 799249. | 3.6 | 8 |
| 5 | 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. | 7.1 | 39 |
| 6 | The HK5 and HK6 cytokinin receptors mediate diverse developmental pathways in rice. Development (Cambridge), 2020, 147, . | 2.5 | 24 |
| 7 | Functional Analysis of the Rice Type-B Response Regulator RR22. Frontiers in Plant Science, 2020, 11, 577676. | 3.6 | 8 |
| 8 | Mutagenomics: A Rapid, High-Throughput Method to Identify Causative Mutations from a Genetic Screen. Plant Physiology, 2020, 184, 1658-1673. | 4.8 | 6 |
| 9 | Dynamic Construction, Perception, and Remodeling of Plant Cell Walls. Annual Review of Plant Biology, 2020, 71, 39-69. | 18.7 | 132 |
| 10 | Response Regulators 9 and 10 Negatively Regulate Salinity Tolerance in Rice. Plant and Cell Physiology, 2019, 60, 2549-2563. | 3.1 | 68 |
| 11 | Type-B response regulators of rice play key roles in growth, development, and cytokinin signaling. Development (Cambridge), 2019, 146, . | 2.5 | 38 |
| 12 | Behind the Screen: How a Simple Seedling Response Helped Unravel Ethylene Signaling in Plants. Plant Cell, 2019, 31, 1402-1403. | 6.6 | 3 |
| 13 | 1-Aminocyclopropane 1-Carboxylic Acid and Its Emerging Role as an Ethylene-Independent Growth Regulator. Frontiers in Plant Science, 2019, 10, 1602. | 3.6 | 61 |
| 14 | The Regulation of Cellulose Biosynthesis in Plants. Plant Cell, 2019, 31, 282-296. | 6.6 | 181 |
| 15 | Using indCAPS to Detect CRISPR/Cas9 Induced Mutations. Bio-protocol, 2019, 9, e3374. | 0.4 | 1 |
| 16 | Cytokinin signaling in plant development. Development (Cambridge), 2018, 145, . | 2.5 | 472 |
| 17 | Cytokinin modulates context-dependent chromatin accessibility through the type-B response regulators. Nature Plants, 2018, 4, 1102-1111. | 9.3 | 44 |
| 18 | SHOU4 Proteins Regulate Trafficking of Cellulose Synthase Complexes to the Plasma Membrane. Current Biology, 2018, 28, 3174-3182.e6. | 3.9 | 55 |

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|---|---|---|---|
| 19 | Role of <i>BASIC PENTACYSTEINE</i> transcription factors in a subset of cytokinin signaling responses. Plant Journal, 2018, 95, 458-473. | 5.7 | 52 |
| 20 | Coordination of Chloroplast Development through the Action of the GNC and GLK Transcription Factor Families. Plant Physiology, 2018, 178, 130-147. | 4.8 | 85 |
| 21 | A role for twoâ€component signaling elements in the Arabidopsis growth recovery response to ethylene. Plant Direct, 2018, 2, e00058. | 1.9 | 11 |
| 22 | Regulation of the turnover of <scp>ACC</scp> synthases by phytohormones and heterodimerization in Arabidopsis. Plant Journal, 2017, 91, 491-504. | 5.7 | 48 |
| 23 | Cytokinin induces genome-wide binding of the type-B response regulator ARR10 to regulate growth and development in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5995-E6004. | 7.1 | 154 |
| 24 | Dynamic patterns of expression for genes regulating cytokinin metabolism and signaling during rice inflorescence development. PLoS ONE, 2017, 12, e0176060. | 2.5 | 38 |
| 25 | indCAPS: A tool for designing screening primers for CRISPR/Cas9 mutagenesis events. PLoS ONE, 2017, 12, e0188406. | 2.5 | 13 |
| 26 | The Role of Cytokinin During Infection of <i>Arabidopsis thaliana</i> by the Cyst Nematode <i>Heterodera schachtii</i>. Molecular Plant-Microbe Interactions, 2016, 29, 57-68. | 2.6 | 44 |
| 27 | Characterization of the cytokinin-responsive transcriptome in rice. BMC Plant Biology, 2016, 16, 260. | 3.6 | 38 |
| 28 | The cytokinin response factors modulate root and shoot growth and promote leaf senescence in Arabidopsis. Plant Journal, 2016, 85, 134-147. | 5.7 | 101 |
| 29 | Cytokinin acts through the auxin influx carrier AUX1 to regulate cell elongation in the root. Development (Cambridge), 2016, 143, 3982-3993. | 2.5 | 55 |
| 30 | <i>Pseudomonas syringae</i> 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. | 7.1 | 66 |
| 31 | The Plant CellIntroduces Breakthrough Reports: A New Forum for Cutting-Edge Plant Research. Plant Cell, 2015, , tpc.15.00862. | 6.6 | 1 |
| 32 | The Yin-Yang of Hormones: Cytokinin and Auxin Interactions in Plant Development. Plant Cell, 2015, 27, 44-63. | 6.6 | 441 |
| 33 | Cytokinin is required for escape but not release from auxin mediated apical dominance. Plant Journal, 2015, 82, 874-886. | 5.7 | 136 |
| 34 | COBRA-LIKE2, a Member of the Glycosylphosphatidylinositol-Anchored COBRA-LIKE Family, Plays a Role in Cellulose Deposition in Arabidopsis Seed Coat Mucilage Secretory Cells Â, Â Â. Plant Physiology, 2015, 167, 711-724. | 4.8 | 82 |
| 35 | Ethylene Inhibits Cell Proliferation of the Arabidopsis Root Meristem. Plant Physiology, 2015, 169, 338-350. | 4.8 | 130 |
| 36 | Alterations in Auxin Homeostasis Suppress Defects in Cell Wall Function. PLoS ONE, 2014, 9, e98193. | 2.5 | 31 |

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|---|---|---|---|
| 37 | Cytokinin Signaling in Plants. , 2014, , 269-289. | | 4 |
| 38 | Cytokinin and the cell cycle. Current Opinion in Plant Biology, 2014, 21, 7-15. | 7.1 | 215 |
| 39 | Signaling: Cytokinin Signaling. , 2014, , 1-19. | | 2 |
| 40 | Cytokinins. The Arabidopsis Book, 2014, 12, e0168. | 0.5 | 450 |
| 41 | Cytokinin Induces Cell Division in the Quiescent Center of the Arabidopsis Root Apical Meristem. Current Biology, 2013, 23, 1979-1989. | 3.9 | 151 |
| 42 | Cytokininâ€dependent specification of the functional megaspore in the Arabidopsis female gametophyte. Plant Journal, 2013, 73, 929-940. | 5.7 | 74 |
| 43 | 14-3-3 Regulates 1-Aminocyclopropane-1-Carboxylate Synthase Protein Turnover in <i>Arabidopsis</i> Â Â. Plant Cell, 2013, 25, 1016-1028. | 6.6 | 115 |
| 44 | Functional Characterization of Type-B Response Regulators in the Arabidopsis Cytokinin Response Â Â. Plant Physiology, 2013, 162, 212-224. | 4.8 | 82 |
| 45 | Identification of Cytokinin-Responsive Genes Using Microarray Meta-Analysis and RNA-Seq in Arabidopsis Â Â Â. Plant Physiology, 2013, 162, 272-294. | 4.8 | 230 |
| 46 | The role of cytokinin in ovule development in<i><i>Arabidopsis</i></i>. Plant Signaling and Behavior, 2013, 8, e23393. | 2.4 | 17 |
| 47 | The rice F-box protein KISS ME DEADLY2 functions as a negative regulator of cytokinin signalling. Plant Signaling and Behavior, 2013, 8, e26434. | 2.4 | 27 |
| 48 | ACC synthase and its cognate E3 ligase are inversely regulated by light. Plant Signaling and Behavior, 2013, 8, e26478. | 2.4 | 14 |
| 49 | SCF <sup>KMD</sup> 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, 10028-10033. | 7.1 | 106 |
| 50 | CTR1 phosphorylates the central regulator EIN2 to control ethylene hormone signaling from the ER membrane to the nucleus in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19486-19491. | 7.1 | 539 |
| 51 | 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, 285-288. | 2.4 | 31 |
| 52 | Functional Characterization of the GATA Transcription Factors GNC and CGA1 Reveals Their Key Role in Chloroplast Development, Growth, and Division in Arabidopsis Â Â. Plant Physiology, 2012, 160, 332-348. | 4.8 | 172 |
| 53 | Characterization of Genes Involved in Cytokinin Signaling and Metabolism from Rice Â Â. Plant Physiology, 2012, 158, 1666-1684. | 4.8 | 197 |
| 54 | Two-Component Elements Mediate Interactions between Cytokinin and Salicylic Acid in Plant Immunity. PLoS Genetics, 2012, 8, e1002448. | 3.5 | 222 |

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|---|---|---|---|
| 55 | Typeâ€A response regulators are required for proper root apical meristem function through postâ€transcriptional regulation of PIN auxin efflux carriers. Plant Journal, 2011, 68, 1-10. | 5.7 | 98 |
| 56 | 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, 941-953. | 5.7 | 129 |
| 57 | The influence of cytokininâ€“auxin cross-regulation on cell-fate determination in Arabidopsis thaliana root development. Journal of Theoretical Biology, 2011, 283, 152-167. | 1.7 | 40 |
| 58 | CLE Peptides can Negatively Regulate Protoxylem Vessel Formation via Cytokinin Signaling. Plant and Cell Physiology, 2011, 52, 37-48. | 3.1 | 118 |
| 59 | Protein Phosphatase 2A Controls Ethylene Biosynthesis by Differentially Regulating the Turnover of ACC Synthase Isoforms. PLoS Genetics, 2011, 7, e1001370. | 3.5 | 134 |
| 60 | Cytokinin signaling and transcriptional networks. Current Opinion in Plant Biology, 2010, 13, 533-539. | 7.1 | 138 |
| 61 | Role of A-type ARABIDOPSIS RESPONSE REGULATORS in meristem maintenance and regeneration. European Journal of Cell Biology, 2010, 89, 279-284. | 3.6 | 103 |
| 62 | The subcellular distribution of the Arabidopsis histidine phosphotransfer proteins is independent of cytokinin signaling. Plant Journal, 2010, 62, 473-482. | 5.7 | 88 |
| 63 | Type-B response regulators ARR1 and ARR12 regulate expression of AtHKT1;1 and accumulation of sodium in Arabidopsis shoots. Plant Journal, 2010, 64, 753-763. | 5.7 | 145 |
| 64 | The Role of Receptor-Like Kinases in Regulating Cell Wall Function. Plant Physiology, 2010, 153, 479-484. | 4.8 | 75 |
| 65 | Localization of the Arabidopsis histidine phosphotransfer proteins is independent of cytokinin. Plant Signaling and Behavior, 2010, 5, 896-898. | 2.4 | 20 |
| 66 | The Perception of Cytokinin: A Story 50 Years in the Making: Figure 1.. Plant Physiology, 2010, 154, 487-492. | 4.8 | 64 |
| 67 | Environmental perception avenues: the interaction of cytokinin and environmental response pathways. Plant, Cell and Environment, 2009, 32, 1147-1160. | 5.7 | 305 |
| 68 | The BTB ubiquitin ligases ETO1, EOL1 and EOL2 act collectively to regulate ethylene biosynthesis in Arabidopsis by controlling typeâ€2 ACC synthase levels. Plant Journal, 2009, 57, 332-345. | 5.7 | 166 |
| 69 | Regulation of ACS protein stability by cytokinin and brassinosteroid. Plant Journal, 2009, 57, 606-614. | 5.7 | 186 |
| 70 | Cytosolic activity of SPINDLY implies the existence of a DELLAâ€independent gibberellinâ€response pathway. Plant Journal, 2009, 58, 979-988. | 5.7 | 39 |
| 71 | Cytokinin signaling: two-components and more. Trends in Plant Science, 2008, 13, 85-92. | 8.8 | 361 |
| 72 | Two-Component Signaling Elements and Histidyl-Aspartyl Phosphorelays<sup>â€</sup>. The Arabidopsis Book, 2008, 6, e0112. | 0.5 | 137 |

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| 73 | Two Leucine-Rich Repeat Receptor Kinases Mediate Signaling, Linking Cell Wall Biosynthesis and ACC Synthase in <i>Arabidopsis</i>. Plant Cell, 2008, 20, 3065-3079. | 6.6 | 290 |
| 74 | Cytokinin Regulates Type-A <i>Arabidopsis</i> Response Regulator Activity and Protein Stability via Two-Component Phosphorelay. Plant Cell, 2008, 19, 3901-3914. | 6.6 | 240 |
| 75 | Type B Response Regulators of <i>Arabidopsis</i> Play Key Roles in Cytokinin Signaling and Plant Development. Plant Cell, 2008, 20, 2102-2116. | 6.6 | 386 |
| 76 | Signaling via Histidine-Containing Phosphotransfer Proteins inArabidopsis. Plant Signaling and Behavior, 2007, 2, 287-289. | 2.4 | 17 |
| 77 | Nomenclature for Two-Component Signaling Elements of Rice. Plant Physiology, 2007, 143, 555-557. | 4.8 | 72 |
| 78 | Regulation of Ethylene Biosynthesis. Journal of Plant Growth Regulation, 2007, 26, 92-105. | 5.1 | 233 |
| 79 | The Arabidopsis Histidine Phosphotransfer Proteins Are Redundant Positive Regulators of Cytokinin Signaling. Plant Cell, 2006, 18, 3073-3087. | 6.6 | 392 |
| 80 | 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, 11081-11085. | 7.1 | 353 |
| 81 | RCN1-Regulated Phosphatase Activity and EIN2 Modulate Hypocotyl Gravitropism by a Mechanism That Does Not Require Ethylene Signaling. Plant Physiology, 2006, 141, 1617-1629. | 4.8 | 51 |
| 82 | The interaction of cytokinin with other signals. Physiologia Plantarum, 2005, 123, 184-194. | 5.2 | 58 |
| 83 | WUSCHEL controls meristem function by direct regulation of cytokinin-inducible response regulators. Nature, 2005, 438, 1172-1175. | 27.8 | 747 |
| 84 | Cytokinin signaling. Current Opinion in Plant Biology, 2005, 8, 518-525. | 7.1 | 245 |
| 85 | Multiple Type-B Response Regulators Mediate Cytokinin Signal Transduction in Arabidopsis Â. Plant Cell, 2005, 17, 3007-3018. | 6.6 | 397 |
| 86 | Arabidopsis Response Regulators ARR3 and ARR4 Play Cytokinin-Independent Roles in the Control of Circadian Period. Plant Cell, 2005, 18, 55-69. | 6.6 | 133 |
| 87 | Eto Brute? Role of ACS turnover in regulating ethylene biosynthesis. Trends in Plant Science, 2005, 10, 291-296. | 8.8 | 212 |
| 88 | Type-A Arabidopsis Response Regulators Are Partially Redundant Negative Regulators of Cytokinin Signaling[W]. Plant Cell, 2004, 16, 658-671. | 6.6 | 631 |
| 89 | Type-B Response Regulators Display Overlapping Expression Patterns in Arabidopsis. Plant Physiology, 2004, 135, 927-937. | 4.8 | 156 |
| 90 | Cytokinins play opposite roles in lateral root formation, and nematode and Rhizobial symbioses. Plant Journal, 2004, 38, 203-214. | 5.7 | 300 |

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| 91 | 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. | 3.0 | 129 |
| 92 | Biochemical and functional analysis of CTR1, a protein kinase that negatively regulates ethylene signaling inArabidopsis. Plant Journal, 2003, 33, 221-233. | 5.7 | 360 |
| 93 | 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, 545-559. | 6.6 | 350 |
| 94 | Expression Profiling of Cytokinin Action in Arabidopsis. Plant Physiology, 2003, 132, 1998-2011. | 4.8 | 276 |
| 95 | 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, 34725-34732. | 3.4 | 323 |
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| 97 | Cytokinin Signaling in Arabidopsis. Plant Cell, 2002, 14, S47-S59. | 6.6 | 182 |
| 98 | Cytokinins. The Arabidopsis Book, 2002, 1, e0063. | 0.5 | 31 |
| 99 | A rapid cytokinin response assay in Arabidopsis indicates a role for phospholipase D in cytokinin signalling. FEBS Letters, 2002, 515, 39-43. | 2.8 | 96 |
| 100 | Tribute to Folke Skoog: Recent Advances in our Understanding of Cytokinin Biology. Journal of Plant Growth Regulation, 2002, 21, 1-2. | 5.1 | 22 |
| 101 | ATMPK4, an Arabidopsis Homolog of Mitogen-Activated Protein Kinase, Is Activated in Vitro by AtMEK1 through Threonine Phosphorylation. Plant Physiology, 2000, 122, 1301-1310. | 4.8 | 147 |
| 102 | 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, 443-455. | 6.6 | 215 |
| 103 | Characterization of the Response of the Arabidopsis Response Regulator Gene Family to Cytokinin. Plant Physiology, 2000, 124, 1706-1717. | 4.8 | 541 |
| 104 | Factors regulating ethylene biosynthesis in etiolatedArabidopsis thalianaseedlings. Physiologia Plantarum, 1999, 105, 478-484. | 5.2 | 73 |
| 105 | Phosphorelay signal transduction: the emerging family of plant response regulators. Trends in Biochemical Sciences, 1999, 24, 452-456. | 7.5 | 96 |
| 106 | Molecular mechanisms of cytokinin action. Current Opinion in Plant Biology, 1999, 2, 359-364. | 7.1 | 93 |
| 107 | Two Arabidopsis Mutants That Overproduce Ethylene Are Affected in the Posttranscriptional Regulation of 1-Aminocyclopropane-1-Carboxylic Acid Synthase1. Plant Physiology, 1999, 119, 521-530. | 4.8 | 210 |
| 108 | RESPONSIVE-TO-ANTAGONIST1, a Menkes/Wilson Diseaseâ€"Related Copper Transporter, Is Required for Ethylene Signaling in Arabidopsis. Cell, 1999, 97, 383-393. | 28.9 | 385 |

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| 109 | Two Genes with Similarity to Bacterial Response Regulators Are Rapidly and Specifically Induced by Cytokinin in Arabidopsis. Plant Cell, 1998, 10, 1009-1019. | 6.6 | 355 |
| 110 | Two Genes with Similarity to Bacterial Response Regulators Are Rapidly and Specifically Induced by Cytokinin in Arabidopsis. Plant Cell, 1998, 10, 1009. | 6.6 | 26 |
| 111 | Isolation and Characterization of Arabidopsis Mutants Defective in the Induction of Ethylene Biosynthesis by Cytokinin. Genetics, 1998, 149, 417-427. | 2.9 | 114 |
| 112 | The ethylene signal transduction pathway inArabidopsis. Journal of Experimental Botany, 1997, 48, 211-218. | 4.8 | 40 |
| 113 | THE ETHYLENE RESPONSE PATHWAY IN ARABIDOPSIS. Annual Review of Plant Biology, 1997, 48, 277-296. | 14.3 | 176 |
| 114 | Ethylene gas: it's not just for ripening any more!. Trends in Genetics, 1993, 9, 356-362. | 6.7 | 80 |
| 115 | CTR1, a negative regulator of the ethylene response pathway in arabidopsis, encodes a member of the Raf family of protein kinases. Cell, 1993, 72, 427-441. | 28.9 | 1,841 |
| 116 | Cloning and Characterization of an <i>Arabidopsis thaliana</i> Topoisomerase I Gene. Plant Physiology, 1992, 99, 1493-1501. | 4.8 | 40 |
| 117 | Cloning and characterization of an inorganic pyrophosphatase gene from Arabidopsis thaliana. Plant Molecular Biology, 1991, 16, 345-348. | 3.9 | 29 |