# G Eric Schaller

List of Publications by Year
in descending order

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|---|---|---|---|
| 74<br>papers | 10,406<br>citations | 44069<br>48<br>h-index | 82547<br>72<br>g-index |
| 76<br>all docs | 76<br>docs citations | 76<br>times ranked | 7665<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Type-A Arabidopsis Response Regulators Are Partially Redundant Negative Regulators of Cytokinin Signaling[W]. Plant Cell, 2004, 16, 658-671. | 6.6 | 631 |
| 2 | Cytokinin signaling in plant development. Development (Cambridge), 2018, 145, . | 2.5 | 472 |
| 3 | Cytokinins. The Arabidopsis Book, 2014, 12, e0168. | 0.5 | 450 |
| 4 | The Yin-Yang of Hormones: Cytokinin and Auxin Interactions in Plant Development. Plant Cell, 2015, 27, 44-63. | 6.6 | 441 |
| 5 | Multiple Type-B Response Regulators Mediate Cytokinin Signal Transduction in Arabidopsis Â. Plant Cell, 2005, 17, 3007-3018. | 6.6 | 397 |
| 6 | The Arabidopsis Histidine Phosphotransfer Proteins Are Redundant Positive Regulators of Cytokinin Signaling. Plant Cell, 2006, 18, 3073-3087. | 6.6 | 392 |
| 7 | Type B Response Regulators of Arabidopsis Play Key Roles in Cytokinin Signaling and Plant Development. Plant Cell, 2008, 20, 2102-2116. | 6.6 | 386 |
| 8 | Ethylene Signal Transduction. Annals of Botany, 2005, 95, 901-915. | 2.9 | 377 |
| 9 | 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 |
| 10 | 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 |
| 11 | Localization of the Ethylene Receptor ETR1 to the Endoplasmic Reticulum of Arabidopsis. Journal of Biological Chemistry, 2002, 277, 19861-19866. | 3.4 | 305 |
| 12 | Cytokinin Regulates Type-A Arabidopsis Response Regulator Activity and Protein Stability via Two-Component Phosphorelay. Plant Cell, 2008, 19, 3901-3914. | 6.6 | 240 |
| 13 | 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 |
| 14 | The Ethylene Response Mediator ETR1 from Arabidopsis Forms a Disulfide-linked Dimer. Journal of Biological Chemistry, 1995, 270, 12526-12530. | 3.4 | 228 |
| 15 | Two-Component Elements Mediate Interactions between Cytokinin and Salicylic Acid in Plant Immunity. PLoS Genetics, 2012, 8, e1002448. | 3.5 | 222 |
| 16 | Cytokinin and the cell cycle. Current Opinion in Plant Biology, 2014, 21, 7-15. | 7.1 | 215 |
| 17 | Ethylene Perception by the ERS1 Protein in Arabidopsis. Plant Physiology, 2000, 123, 1449-1458. | 4.8 | 210 |
| 18 | Two-Component Systems and Their Co-Option for Eukaryotic Signal Transduction. Current Biology, 2011, 21, R320-R330. | 3.9 | 202 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Characterization of Genes Involved in Cytokinin Signaling and Metabolism from Rice Â Â. Plant Physiology, 2012, 158, 1666-1684. | 4.8 | 197 |
| 20 | Arabidopsis type B cytokinin response regulators ARR1, ARR10, and ARR12 negatively regulate plant responses to drought. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3090-3095. | 7.1 | 186 |
| 21 | 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 |
| 22 | The Relationship between Ethylene Binding and Dominant Insensitivity Conferred by Mutant Forms of the ETR1 Ethylene Receptor. Plant Physiology, 1999, 121, 291-300. | 4.8 | 156 |
| 23 | Type-B Response Regulators Display Overlapping Expression Patterns in Arabidopsis. Plant Physiology, 2004, 135, 927-937. | 4.8 | 156 |
| 24 | Mutational Analysis of the Ethylene Receptor ETR1. Role of the Histidine Kinase Domain in Dominant Ethylene Insensitivity. Plant Physiology, 2002, 128, 1428-1438. | 4.8 | 155 |
| 25 | Cytokinin induces genome-wide binding of the type-B response regulator ARR10 to regulate growth and development in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5995-E6004. | 7.1 | 154 |
| 26 | Cytokinin Induces Cell Division in the Quiescent Center of the Arabidopsis Root Apical Meristem. Current Biology, 2013, 23, 1979-1989. | 3.9 | 151 |
| 27 | 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 |
| 28 | Ligand-induced Degradation of the Ethylene Receptor ETR2 through a Proteasome-dependent Pathway in Arabidopsis. Journal of Biological Chemistry, 2007, 282, 24752-24758. | 3.4 | 137 |
| 29 | A strong constitutive ethylene-response phenotype conferred on Arabidopsis plants containing null mutations in the ethylene receptors ETR1 and ERS1. BMC Plant Biology, 2007, 7, 3. | 3.6 | 137 |
| 30 | Two-Component Signaling Elements and Histidyl-Aspartyl Phosphorelays<sup>â€</sup>. The Arabidopsis Book, 2008, 6, e0112. | 0.5 | 137 |
| 31 | Heteromeric Interactions among Ethylene Receptors Mediate Signaling in Arabidopsis. Journal of Biological Chemistry, 2008, 283, 23801-23810. | 3.4 | 131 |
| 32 | Ethylene and the regulation of plant development. BMC Biology, 2012, 10, 9. | 3.8 | 131 |
| 33 | Ethylene Inhibits Cell Proliferation of the Arabidopsis Root Meristem. Plant Physiology, 2015, 169, 338-350. | 4.8 | 130 |
| 34 | Mechanisms of signal transduction by ethylene: overlapping and non-overlapping signalling roles in a receptor family. AoB PLANTS, 2013, 5, plt010-plt010. | 2.3 | 127 |
| 35 | Requirement of the Histidine Kinase Domain for Signal Transduction by the Ethylene Receptor ETR1. Plant Physiology, 2004, 136, 2961-2970. | 4.8 | 112 |
| 36 | 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 |

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|---|---|---|---|
| 37 | The cytokinin response factors modulate root and shoot growth and promote leaf senescence in Arabidopsis. Plant Journal, 2016, 85, 134-147. | 5.7 | 101 |
| 38 | 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 |
| 39 | Histidine Kinase Activity of the Ethylene Receptor ETR1 Facilitates the Ethylene Response in Arabidopsis Â Â. Plant Physiology, 2012, 159, 682-695. | 4.8 | 93 |
| 40 | Ethylene. The Arabidopsis Book, 2002, 1, e0071. | 0.5 | 88 |
| 41 | The subcellular distribution of the Arabidopsis histidine phosphotransfer proteins is independent of cytokinin signaling. Plant Journal, 2010, 62, 473-482. | 5.7 | 88 |
| 42 | Cytokinin Regulates the Etioplast-Chloroplast Transition through the Two-Component Signaling System and Activation of Chloroplast-Related Genes. Plant Physiology, 2016, 172, 464-478. | 4.8 | 85 |
| 43 | Coordination of Chloroplast Development through the Action of the GNC and GLK Transcription Factor Families. Plant Physiology, 2018, 178, 130-147. | 4.8 | 85 |
| 44 | Ethylene Regulates Levels of Ethylene Receptor/CTR1 Signaling Complexes in Arabidopsis thaliana. Journal of Biological Chemistry, 2015, 290, 12415-12424. | 3.4 | 83 |
| 45 | Functional Characterization of Type-B Response Regulators in the Arabidopsis Cytokinin Response Â Â. Plant Physiology, 2013, 162, 212-224. | 4.8 | 82 |
| 46 | Ethylene Receptors Function as Components of High-Molecular-Mass Protein Complexes in Arabidopsis. PLoS ONE, 2010, 5, e8640. | 2.5 | 76 |
| 47 | Cytokininâ€dependent specification of the functional megaspore in the Arabidopsis female gametophyte. Plant Journal, 2013, 73, 929-940. | 5.7 | 74 |
| 48 | Nomenclature for Two-Component Signaling Elements of Rice. Plant Physiology, 2007, 143, 555-557. | 4.8 | 72 |
| 49 | Cytokinin acts through the auxin influx carrier AUX1 to regulate cell elongation in the root. Development (Cambridge), 2016, 143, 3982-3993. | 2.5 | 55 |
| 50 | Role of BASIC PENTACYSTEINE transcription factors in a subset of cytokinin signaling responses. Plant Journal, 2018, 95, 458-473. | 5.7 | 52 |
| 51 | Enhancing plant regeneration in tissue culture. Plant Signaling and Behavior, 2013, 8, e25709. | 2.4 | 48 |
| 52 | The ARGOS gene family functions in a negative feedback loop to desensitize plants to ethylene. BMC Plant Biology, 2015, 15, 157. | 3.6 | 44 |
| 53 | The Role of Cytokinin During Infection of Arabidopsis thaliana by the Cyst Nematode Heterodera schachtii. Molecular Plant-Microbe Interactions, 2016, 29, 57-68. | 2.6 | 44 |
| 54 | Cytokinin modulates context-dependent chromatin accessibility through the type-B response regulators. Nature Plants, 2018, 4, 1102-1111. | 9.3 | 44 |

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|---|---|---|---|
| 55 | Inhibitors of Ethylene Biosynthesis and Signaling. Methods in Molecular Biology, 2017, 1573, 223-235. | 0.9 | 41 |
| 56 | 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 |
| 57 | Role of the Cytokinin-Activated Type-B Response Regulators in Hormone Crosstalk. Plants, 2020, 9, 166. | 3.5 | 39 |
| 58 | Characterization of the cytokinin-responsive transcriptome in rice. BMC Plant Biology, 2016, 16, 260. | 3.6 | 38 |
| 59 | Dynamic patterns of expression for genes regulating cytokinin metabolism and signaling during rice inflorescence development. PLoS ONE, 2017, 12, e0176060. | 2.5 | 38 |
| 60 | Type-B response regulators of rice play key roles in growth, development, and cytokinin signaling. Development (Cambridge), 2019, 146, . | 2.5 | 38 |
| 61 | The role of receptor interactions in regulating ethylene signal transduction. Plant Signaling and Behavior, 2009, 4, 1152-1153. | 2.4 | 34 |
| 62 | Focus on Ethylene. Plant Physiology, 2015, 169, 1-2. | 4.8 | 26 |
| 63 | The HK5 and HK6 cytokinin receptors mediate diverse developmental pathways in rice. Development (Cambridge), 2020, 147, . | 2.5 | 24 |
| 64 | Amplification and Adaptation in the Ethylene Signaling Pathway. Small Methods, 2020, 4, 1900452. | 8.6 | 13 |
| 65 | A role for twoâ€component signaling elements in the Arabidopsis growth recovery response to ethylene. Plant Direct, 2018, 2, e00058. | 1.9 | 11 |
| 66 | Functional Analysis of the Rice Type-B Response Regulator RR22. Frontiers in Plant Science, 2020, 11, 577676. | 3.6 | 8 |
| 67 | Function of the pseudo phosphotransfer proteins has diverged between rice and Arabidopsis. Plant Journal, 2021, 106, 159-173. | 5.7 | 7 |
| 68 | Isolation of Endoplasmic Reticulum and Its Membrane. Methods in Molecular Biology, 2017, 1511, 119-129. | 0.9 | 6 |
| 69 | Mutagenomics: A Rapid, High-Throughput Method to Identify Causative Mutations from a Genetic Screen. Plant Physiology, 2020, 184, 1658-1673. | 4.8 | 6 |
| 70 | 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 |
| 71 | Behind the Screen: How a Simple Seedling Response Helped Unravel Ethylene Signaling in Plants. Plant Cell, 2019, 31, 1402-1403. | 6.6 | 3 |
| 72 | Localization of the Ethylene-Receptor Signaling Complex to the Endoplasmic Reticulum: Analysis by Two-Phase Partitioning and Density-Gradient Centrifugation. Methods in Molecular Biology, 2017, 1573, 113-131. | 0.9 | 1 |

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|---|---|---|---|
| 73 | Analysis of Ethylene Receptors: Assay for Histidine Kinase Activity. Methods in Molecular Biology, 2017, 1573, 87-99. | 0.9 | 0 |
| 74 | Analysis of Ethylene Receptor Interactions by Co-immunoprecipitation Assays. Methods in Molecular Biology, 2017, 1573, 101-112. | 0.9 | 0 |