# David Jackson

List of Publications by Year
in descending order



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|---|---|---|---|
| 85 papers | 8,979 citations | 43973 48 h-index | 56606 83 g-index |
| 97 all docs | 97 docs citations | 97 times ranked | 6724 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Expression of maize <i>KNOTTED1</i> related homeobox genes in the shoot apical meristem predicts patterns of morphogenesis in the vegetative shoot. Development (Cambridge), 1994, 120, 405-413. | 1.2 | 635 |
| 2 | A trehalose metabolic enzyme controls inflorescence architecture in maize. Nature, 2006, 441, 227-230. | 13.7 | 401 |
| 3 | CLAVATA-WUSCHEL signaling in the shoot meristem. Development (Cambridge), 2016, 143, 3238-3248. | 1.2 | 361 |
| 4 | <i>Setaria viridis</i>: A Model for C4 Photosynthesis Â. Plant Cell, 2010, 22, 2537-2544. | 3.1 | 320 |
| 5 | The fasciated ear2 gene encodes a leucine-rich repeat receptor-like protein that regulates shoot meristem proliferation in maize. Genes and Development, 2001, 15, 2755-2766. | 2.7 | 299 |
| 6 | thick tassel dwarf1 encodes a putative maize ortholog of the Arabidopsis CLAVATA1 leucine-rich repeat receptor-like kinase. Development (Cambridge), 2005, 132, 1235-1245. | 1.2 | 264 |
| 7 | Control of phyllotaxy by the cytokinin-inducible response regulator homologue ABPHYL1. Nature, 2004, 430, 1031-1034. | 13.7 | 261 |
| 8 | <i>sparse inflorescence1</i> encodes a monocot-specific <i>YUCCA</i> -like gene required for vegetative and reproductive development in maize. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15196-15201. | 3.3 | 242 |
| 9 | Control of <i>Arabidopsis</i> meristem development by thioredoxin-dependent regulation of intercellular transport. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3615-3620. | 3.3 | 238 |
| 10 | The maize GÎ± gene COMPACT PLANT2 functions in CLAVATA signalling to control shoot meristem size. Nature, 2013, 502, 555-558. | 13.7 | 229 |
| 11 | Quantitative variation in maize kernel row number is controlled by the FASCIATED EAR2 locus. Nature Genetics, 2013, 45, 334-337. | 9.4 | 220 |
| 12 | The maize SBP-box transcription factor encoded by <i>tasselsheath4</i> regulates bract development and the establishment of meristem boundaries. Development (Cambridge), 2010, 137, 1243-1250. | 1.2 | 217 |
| 13 | <i>grassy tillers1</i> promotes apical dominance in maize and responds to shade signals in the grasses. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E506-12. | 3.3 | 215 |
| 14 | Genetics and Evolution of Inflorescence and Flower Development in Grasses. Plant and Cell Physiology, 2005, 46, 69-78. | 1.5 | 203 |
| 15 | Genome assembly of a tropical maize inbred line provides insights into structural variation and crop improvement. Nature Genetics, 2019, 51, 1052-1059. | 9.4 | 202 |
| 16 | Enhancing grain-yield-related traits by CRISPRâ€“Cas9 promoter editing of maize CLE genes. Nature Plants, 2021, 7, 287-294. | 4.7 | 199 |
| 17 | Developmental regulation and significance of KNOX protein trafficking in Arabidopsis. Development (Cambridge), 2003, 130, 4351-4362. | 1.2 | 196 |
| 18 | The Relationship between Auxin Transport and Maize Branching Â Â Â. Plant Physiology, 2008, 147, 1913-1923. | 2.3 | 188 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Signaling from maize organ primordia via FASCIATED EAR3 regulates stem cell proliferation and yield traits. Nature Genetics, 2016, 48, 785-791. | 9.4 | 180 |
| 20 | Intercellular trafficking of aKNOTTED1green fluorescent protein fusion in the leaf and shoot meristem ofArabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4103-4108. | 3.3 | 177 |
| 21 | Regulatory modules controlling maize inflorescence architecture. Genome Research, 2014, 24, 431-443. | 2.4 | 160 |
| 22 | Grass Meristems II: Inflorescence Architecture, Flower Development and Meristem Fate. Plant and Cell Physiology, 2013, 54, 313-324. | 1.5 | 159 |
| 23 | The control of axillary meristem fate in the maize<i>ramosa</i>pathway. Development (Cambridge), 2010, 137, 2849-2856. | 1.2 | 157 |
| 24 | A novel cell-to-cell trafficking assay indicates that the KNOX homeodomain is necessary and sufficient for intercellular protein and mRNA trafficking. Genes and Development, 2005, 19, 788-793. | 2.7 | 155 |
| 25 | Chaperonins Facilitate KNOTTED1 Cell-to-Cell Trafficking and Stem Cell Function. Science, 2011, 333, 1141-1144. | 6.0 | 154 |
| 26 | High-Throughput CRISPR/Cas9 Mutagenesis Streamlines Trait Gene Identification in Maize. Plant Cell, 2020, 32, 1397-1413. | 3.1 | 148 |
| 27 | <i>FASCIATED EAR4</i>Encodes a bZIP Transcription Factor That Regulates Shoot Meristem Size in Maize. Plant Cell, 2015, 27, 104-120. | 3.1 | 136 |
| 28 | Evolution of buffering in a genetic circuit controlling plant stem cell proliferation. Nature Genetics, 2019, 51, 786-792. | 9.4 | 129 |
| 29 | Single-cell RNA sequencing of developing maize ears facilitates functional analysis and trait candidate gene discovery. Developmental Cell, 2021, 56, 557-568.e6. | 3.1 | 129 |
| 30 | Studies of<i>aberrant phyllotaxy1</i>Mutants of Maize Indicate Complex Interactions between Auxin and Cytokinin Signaling in the Shoot Apical Meristem Â Â. Plant Physiology, 2009, 150, 205-216. | 2.3 | 124 |
| 31 | Convergent selection of a WD40 protein that enhances grain yield in maize and rice. Science, 2022, 375, eabg7985. | 6.0 | 110 |
| 32 | Grass Meristems I: Shoot Apical Meristem Maintenance, Axillary Meristem Determinacy and the Floral Transition. Plant and Cell Physiology, 2013, 54, 302-312. | 1.5 | 109 |
| 33 | Contributions of Zea mays subspecies mexicana haplotypes to modern maize. Nature Communications, 2017, 8, 1874. | 5.8 | 102 |
| 34 | A Conserved Mechanism of Bract Suppression in the Grass Family Â. Plant Cell, 2010, 22, 565-578. | 3.1 | 97 |
| 35 | Advancing Cell Biology and Functional Genomics in Maize Using Fluorescent Protein-Tagged Lines. Plant Physiology, 2009, 149, 601-605. | 2.3 | 85 |
| 36 | A serine/threonine protein kinase encoding gene KERNEL NUMBER PER ROW6 regulates maize grain yield. Nature Communications, 2020, 11, 988. | 5.8 | 82 |

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|---|---|---|---|
| 37 | Control of Meristem Size. Annual Review of Plant Biology, 2019, 70, 269-291. | 8.6 | 81 |
| 38 | A Maize Glutaredoxin Gene,<i>Abphyl2,</i>Regulates Shoot Meristem Size and Phyllotaxy. Plant Cell, 2015, 27, 121-131. | 3.1 | 77 |
| 39 | The maize heterotrimeric G protein Î² subunit controls shoot meristem development and immune responses. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1799-1805. | 3.3 | 77 |
| 40 | Saltational evolution of the heterotrimeric G protein signaling mechanisms in the plant kingdom. Science Signaling, 2016, 9, ra93. | 1.6 | 71 |
| 41 | Control of meristem determinacy by trehalose 6-phosphate phosphatases is uncoupled from enzymatic activity. Nature Plants, 2019, 5, 352-357. | 4.7 | 70 |
| 42 | The CLAVATA receptor FASCIATED EAR2 responds to distinct CLE peptides by signaling through two downstream effectors. ELife, 2018, 7, . | 2.8 | 69 |
| 43 | BARREN INFLORESCENCE2 Interaction with ZmPIN1a Suggests a Role in Auxin Transport During Maize Inflorescence Development. Plant and Cell Physiology, 2009, 50, 652-657. | 1.5 | 67 |
| 44 | Lights at the end of the tunnel: new views of plasmodesmal structure and function. Current Opinion in Plant Biology, 2010, 13, 684-692. | 3.5 | 64 |
| 45 | Control of phyllotaxy in maize by the abphyl1 gene. Development (Cambridge), 1999, 126, 315-23. | 1.2 | 64 |
| 46 | 3D genome architecture coordinates trans and cis regulation of differentially expressed ear and tassel genes in maize. Genome Biology, 2020, 21, 143. | 3.8 | 60 |
| 47 | Double Labeling of KNOTTED1 mRNA and Protein Reveals Multiple Potential Sites of Protein Trafficking in the Shoot Apex. Plant Physiology, 2002, 129, 1423-1429. | 2.3 | 58 |
| 48 | SHOOT MERISTEMLESS trafficking controls axillary meristem formation, meristem size and organ boundaries in Arabidopsis. Plant Journal, 2017, 90, 435-446. | 2.8 | 56 |
| 49 | Role of heterotrimeric GÎ± proteins in maize development and enhancement of agronomic traits. PLoS Genetics, 2018, 14, e1007374. | 1.5 | 55 |
| 50 | Ground tissue circuitry regulates organ complexity in maize and <i>Setaria</i>. Science, 2021, 374, 1247-1252. | 6.0 | 55 |
| 51 | Redox regulation of intercellular transport. Protoplasma, 2011, 248, 131-140. | 1.0 | 50 |
| 52 | FTIP-Dependent STM Trafficking Regulates Shoot Meristem Development in Arabidopsis. Cell Reports, 2018, 23, 1879-1890. | 2.9 | 50 |
| 53 | Plasmodesmata-Mediated Cell-to-Cell Communication in the Shoot Apical Meristem: How Stem Cells Talk. Plants, 2017, 6, 12. | 1.6 | 49 |
| 54 | Pod Corn Is Caused by Rearrangement at the <i>Tunicate1</i> Locus. Plant Cell, 2012, 24, 2733-2744. | 3.1 | 47 |

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|---|---|---|---|
| 55 | The Maize <i>PI</i>/<i>GLO</i> Ortholog <i>Zmm16</i>/<i>sterile tassel silky ear1</i> Interacts with the Zygomorphy and Sex Determination Pathways in Flower Development. Plant Cell, 2015, 27, 3081-3098. | 3.1 | 45 |
| 56 | Analysis of the Competence to Respond to KNOTTED1 Activity in Arabidopsis Leaves Using a Steroid Induction System. Plant Physiology, 2003, 131, 1671-1680. | 2.3 | 41 |
| 57 | All together now, a magical mystery tour of the maize shoot meristem. Current Opinion in Plant Biology, 2018, 45, 26-35. | 3.5 | 41 |
| 58 | An ethylene biosynthesis enzyme controls quantitative variation in maize ear length and kernel yield. Nature Communications, 2021, 12, 5832. | 5.8 | 41 |
| 59 | Redox homeostasis regulates plasmodesmal communication in Arabidopsis meristems. Plant Signaling and Behavior, 2009, 4, 655-659. | 1.2 | 39 |
| 60 | A reactive oxygen species burst causes haploid induction in maize. Molecular Plant, 2022, 15, 943-955. | 3.9 | 39 |
| 61 | Glutaredoxins regulate maize inflorescence meristem development via redox control of TGA transcriptional activity. Nature Plants, 2021, 7, 1589-1601. | 4.7 | 32 |
| 62 | An Efficient Cell Sorting Protocol for Maize Protoplasts. Current Protocols in Plant Biology, 2018, 3, e20072. | 2.8 | 31 |
| 63 | An RNA exosome subunit mediates cell-to-cell trafficking of a homeobox mRNA via plasmodesmata. Science, 2022, 375, 177-182. | 6.0 | 31 |
| 64 | The Kernel Size-Related Quantitative Trait Locus <i>qKW9</i> Encodes a Pentatricopeptide Repeat Protein That Aaffects Photosynthesis and Grain Filling. Plant Physiology, 2020, 183, 1696-1709. | 2.3 | 29 |
| 65 | An adaptive teosinte<i>mexicana</i>introgression modulates phosphatidylcholine levels and is associated with maize flowering time. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 3.3 | 21 |
| 66 | Illuminating plant biology: using fluorescent proteins for high-throughput analysis of protein localization and function in plants. Briefings in Functional Genomics, 2010, 9, 129-138. | 1.3 | 19 |
| 67 | Recruitment of an ancient branching program to suppress carpel development in maize flowers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 3.3 | 18 |
| 68 | A non-cell-autonomous mechanism for the control of plant architecture and epidermal differentiation involves intercellular trafficking of BREVIPEDICELLUS protein. Functional Plant Biology, 2009, 36, 280. | 1.1 | 16 |
| 69 | Gene duplication at the <i>Fascicled ear1</i> locus controls the fate of inflorescence meristem cells in maize. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 16 |
| 70 | Identification of evolutionarily conserved amino acid residues in homeodomain of KNOX proteins for intercellular trafficking. Plant Signaling and Behavior, 2014, 9, e28355. | 1.2 | 11 |
| 71 | The maize SBP-box transcription factor encoded by <i>tasselsheath4</i> regulates bract development and the establishment of meristem boundaries. Development (Cambridge), 2010, 137, 1585-1585. | 1.2 | 10 |
| 72 | Plasmodesmata spread their influence. F1000prime Reports, 2015, 7, 25. | 5.9 | 10 |

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|---|---|---|---|
| 73 | Intercellular Signaling: An Elusive Player Steps Forth. Current Biology, 2003, 13, R349-R350. | 1.8 | 9 |
| 74 | Detection of MAPK3/6 Phosphorylation During Hypersensitive Response (HR)-Associated Programmed Cell Death in Plants. Methods in Molecular Biology, 2018, 1743, 153-161. | 0.4 | 8 |
| 75 | An Aminoacyl tRNA Synthetase, OKI1, Is Required for Proper Shoot Meristem Size in Arabidopsis. Plant and Cell Physiology, 2019, 60, 2597-2608. | 1.5 | 8 |
| 76 | The CLV3 Homolog in Setaria viridis Selectively Controls Inflorescence Meristem Size. Frontiers in Plant Science, 2021, 12, 636749. | 1.7 | 8 |
| 77 | Trafficking and localization of <i>KNOTTED1</i> related mRNAs in shoot meristems. Communicative and Integrative Biology, 2022, 15, 158-163. | 0.6 | 7 |
| 78 | Highâ€Throughput and Lowâ€Cost Genotyping Method for Plant Genome Editing. Current Protocols, 2021, 1, e100. | 1.3 | 6 |
| 79 | Next Generation Cereal Crop Yield Enhancement: From Knowledge of Inflorescence Development to Practical Engineering by Genome Editing. International Journal of Molecular Sciences, 2021, 22, 5167. | 1.8 | 5 |
| 80 | Maize genetics, genomics, and sustainable improvement. Molecular Breeding, 2022, 42, 1. | 1.0 | 5 |
| 81 | Management, Analyses, and Distribution of the MaizeCODE Data on the Cloud. Frontiers in Plant Science, 2020, 11, 289. | 1.7 | 4 |
| 82 | An Optimized Wholeâ€Mount Immunofluorescence Method for Shoot Apices. Current Protocols, 2021, 1, e101. | 1.3 | 4 |
| 83 | Learning from CIK plants. Nature Plants, 2018, 4, 195-196. | 4.7 | 2 |
| 84 | A Forward Genetic Approach to Identify Plasmodesmal Trafficking Regulators Based on Trichome Rescue. Methods in Molecular Biology, 2022, 2457, 393-407. | 0.4 | 1 |
| 85 | Intercellular Trafficking of Homeodomain Proteins. Plant Pathology Journal, 2005, 21, 21-26. | 0.7 | 0 |