

# Siobhan M Brady

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99  
papers

7,130  
citations

40  
h-index

84  
g-index

117  
ext. papers

9,052  
ext. citations

11.1  
avg, IF

5.7  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 99 | A high-resolution root spatiotemporal map reveals dominant expression patterns. <i>Science</i> , <b>2007</b> , 318, 801-6  | 33.3 | 876       |
| 98 | The Botany Array Resource: e-Northerns, Expression Angling, and promoter analyses. <i>Plant Journal</i> , <b>2005</b> , 43, 153-63   | 6.9  | 587       |
| 97 | Cell identity mediates the response of Arabidopsis roots to abiotic stress. <i>Science</i> , <b>2008</b> , 320, 942-5  | 33.3 | 572       |
| 96 | An Arabidopsis gene regulatory network for secondary cell wall synthesis. <i>Nature</i> , <b>2015</b> , 517, 571-5   | 50.4 | 399       |
| 95 | The plant vascular system: evolution, development and functions. <i>Journal of Integrative Plant Biology</i> , <b>2013</b> , 55, 294-388   | 8.3  | 388       |
| 94 | Spatiotemporal regulation of cell-cycle genes by SHORTROOT links patterning and growth. <i>Nature</i> , <b>2010</b> , 466, 128-32  | 50.4 | 287       |
| 93 | Comprehensive developmental profiles of gene activity in regions and subregions of the Arabidopsis seed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E435-44 | 11.5 | 282       |
| 92 | Comparative transcriptomics reveals patterns of selection in domesticated and wild tomato. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E2655-62              | 11.5 | 260       |
| 91 | The ABSCISIC ACID INSENSITIVE 3 (ABI3) gene is modulated by farnesylation and is involved in auxin signaling and lateral root development in Arabidopsis. <i>Plant Journal</i> , <b>2003</b> , 34, 67-75                     | 6.9  | 255       |
| 90 | Plant developmental responses to climate change. <i>Developmental Biology</i> , <b>2016</b> , 419, 64-77   | 3.1  | 224       |
| 89 | Hairy root transformation using Agrobacterium rhizogenes as a tool for exploring cell type-specific gene expression and function using tomato as a model. <i>Plant Physiology</i> , <b>2014</b> , 166, 455-69                | 6.6  | 219       |
| 88 | High-Throughput Single-Cell Transcriptome Profiling of Plant Cell Types. <i>Cell Reports</i> , <b>2019</b> , 27, 2241-2247   | 11.6 | 141       |
| 87 | 50 years of Arabidopsis research: highlights and future directions. <i>New Phytologist</i> , <b>2016</b> , 209, 921-44   | 9.8  | 128       |
| 86 | A stele-enriched gene regulatory network in the Arabidopsis root. <i>Molecular Systems Biology</i> , <b>2011</b> , 7, 459  | 12.2 | 127       |
| 85 | Profiling of Accessible Chromatin Regions across Multiple Plant Species and Cell Types Reveals Common Gene Regulatory Principles and New Control Modules. <i>Plant Cell</i> , <b>2018</b> , 30, 15-36                        | 11.6 | 116       |
| 84 | High-resolution metabolic mapping of cell types in plant roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E1232-41   | 11.5 | 102       |
| 83 | PRC2 represses dedifferentiation of mature somatic cells in Arabidopsis. <i>Nature Plants</i> , <b>2015</b> , 1, 15089   | 11.5 | 101       |

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| 82 | Combining expression and comparative evolutionary analysis. The COBRA gene family. <i>Plant Physiology</i> , <b>2007</b> , 143, 172-87   | 6.6  | 101 |
| 81 | Web-queryable large-scale data sets for hypothesis generation in plant biology. <i>Plant Cell</i> , <b>2009</b> , 21, 1034-51  | 15.1 | 98  |
| 80 | Transcriptional regulation of nitrogen-associated metabolism and growth. <i>Nature</i> , <b>2018</b> , 563, 259-264  | 50.4 | 98  |
| 79 | Protonophore- and pH-insensitive glucose and sucrose accumulation detected by FRET nanosensors in Arabidopsis root tips. <i>Plant Journal</i> , <b>2008</b> , 56, 948-62               | 6.9  | 97  |
| 78 | Enhanced Y1H assays for Arabidopsis. <i>Nature Methods</i> , <b>2011</b> , 8, 1053-5   | 21.6 | 92  |
| 77 | Systems approaches to identifying gene regulatory networks in plants. <i>Annual Review of Cell and Developmental Biology</i> , <b>2008</b> , 24, 81-103                                | 12.6 | 85  |
| 76 | Lateral root emergence in Arabidopsis is dependent on transcription factor LBD29 regulation of auxin influx carrier LAX3. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 3340-9   | 6.6  | 78  |
| 75 | Systems analysis of plant functional, transcriptional, physical interaction, and metabolic networks. <i>Plant Cell</i> , <b>2012</b> , 24, 3859-75                                     | 11.6 | 76  |
| 74 | BEL1-LIKE HOMEODOMAIN6 and KNOTTED ARABIDOPSIS THALIANA7 interact and regulate secondary cell wall formation via repression of REVOLUTA. <i>Plant Cell</i> , <b>2014</b> , 26, 4843-61 | 11.6 | 75  |
| 73 | Promoter-based integration in plant defense regulation. <i>Plant Physiology</i> , <b>2014</b> , 166, 1803-20   | 6.6  | 60  |
| 72 | Molecular control of crop shade avoidance. <i>Current Opinion in Plant Biology</i> , <b>2016</b> , 30, 151-8   | 9.9  | 55  |
| 71 | Identification of novel loci regulating interspecific variation in root morphology and cellular development in tomato. <i>Plant Physiology</i> , <b>2013</b> , 162, 755-68             | 6.6  | 50  |
| 70 | A Gene Regulatory Network for Cellular Reprogramming in Plant Regeneration. <i>Plant and Cell Physiology</i> , <b>2018</b> , 59, 765-777   | 4.9  | 49  |
| 69 | A brief history of the TDIF-PXY signalling module: balancing meristem identity and differentiation during vascular development. <i>New Phytologist</i> , <b>2016</b> , 209, 474-84     | 9.8  | 47  |
| 68 | A tomato phloem-mobile protein regulates the shoot-to-root ratio by mediating the auxin response in distant organs. <i>Plant Journal</i> , <b>2015</b> , 83, 853-63                    | 6.9  | 44  |
| 67 | Hormone Cross-Talk in Seed Dormancy. <i>Journal of Plant Growth Regulation</i> , <b>2003</b> , 22, 25-31   | 4.7  | 44  |
| 66 | A PXY-Mediated Transcriptional Network Integrates Signaling Mechanisms to Control Vascular Development in Arabidopsis. <i>Plant Cell</i> , <b>2020</b> , 32, 319-335                   | 11.6 | 44  |
| 65 | Transcriptional Regulation of Arabidopsis Polycomb Repressive Complex 2 Coordinates Cell-Type Proliferation and Differentiation. <i>Plant Cell</i> , <b>2016</b> , 28, 2616-2631       | 11.6 | 42  |

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|----|---|------|----|
| 64 | Establishment of Expression in the SHORTROOT-SCARECROW Transcriptional Cascade through Opposing Activities of Both Activators and Repressors. <i>Developmental Cell</i> , <b>2016</b> , 39, 585-596         | 10.2 | 42 |
| 63 | RALFL34 regulates formative cell divisions in Arabidopsis pericycle during lateral root initiation. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 4863-75                                       | 7    | 42 |
| 62 | Evolutionary flexibility in flooding response circuitry in angiosperms. <i>Science</i> , <b>2019</b> , 365, 1291-1295   | 33.3 | 40 |
| 61 | Reassess the t Test: Interact with All Your Data via ANOVA. <i>Plant Cell</i> , <b>2015</b> , 27, 2088-94   | 11.6 | 40 |
| 60 | Reconstructing spatiotemporal gene expression data from partial observations. <i>Bioinformatics</i> , <b>2009</b> , 25, 2581-7  | 7.2  | 40 |
| 59 | Manipulating large-scale Arabidopsis microarray expression data: identifying dominant expression patterns and biological process enrichment. <i>Methods in Molecular Biology</i> , <b>2009</b> , 553, 57-77 | 1.4  | 39 |
| 58 | Mapping Transcriptional Networks in Plants: Data-Driven Discovery of Novel Biological Mechanisms. <i>Annual Review of Plant Biology</i> , <b>2016</b> , 67, 575-94  | 30.7 | 33 |
| 57 | Molecular Mechanisms Driving Switch Behavior in Xylem Cell Differentiation. <i>Cell Reports</i> , <b>2019</b> , 28, 342-356.e431  | 35.6 | 31 |
| 56 | Complete substitution of a secondary cell wall with a primary cell wall in Arabidopsis. <i>Nature Plants</i> , <b>2018</b> , 4, 777-783   | 11.5 | 30 |
| 55 | Nuclear Transcriptomes at High Resolution Using Retooled INTACT. <i>Plant Physiology</i> , <b>2018</b> , 176, 270-281.e6  | 16.6 | 29 |
| 54 | Unraveling the dynamic transcriptome. <i>Plant Cell</i> , <b>2006</b> , 18, 2101-11   | 11.6 | 29 |
| 53 | Systems biology update: cell type-specific transcriptional regulatory networks. <i>Plant Physiology</i> , <b>2010</b> , 152, 411-9  | 6.6  | 27 |
| 52 | SUPPRESSOR OF GAMMA RESPONSE1 Links DNA Damage Response to Organ Regeneration. <i>Plant Physiology</i> , <b>2018</b> , 176, 1665-1675   | 6.6  | 26 |
| 51 | Network-Guided Discovery of Extensive Epistasis between Transcription Factors Involved in Aliphatic Glucosinolate Biosynthesis. <i>Plant Cell</i> , <b>2018</b> , 30, 178-195                               | 11.6 | 25 |
| 50 | Omics and modelling approaches for understanding regulation of asymmetric cell divisions in arabidopsis and other angiosperm plants. <i>Annals of Botany</i> , <b>2014</b> , 113, 1083-1105                 | 4.1  | 25 |
| 49 | Proteome-wide, Structure-Based Prediction of Protein-Protein Interactions/New Molecular Interactions Viewer. <i>Plant Physiology</i> , <b>2019</b> , 179, 1893-1907   | 6.6  | 21 |
| 48 | DNA methylation and gene expression regulation associated with vascularization in Sorghum bicolor. <i>New Phytologist</i> , <b>2017</b> , 214, 1213-1229  | 9.8  | 20 |
| 47 | Novel biological insights revealed from cell type-specific expression profiling. <i>Current Opinion in Plant Biology</i> , <b>2011</b> , 14, 601-7  | 9.9  | 17 |

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|----|---|------|----|
| 46 | Specification and regulation of vascular tissue identity in the embryo. <i>Development (Cambridge)</i> , <b>2020</b> , 147,   | 6.6  | 16 |
| 45 | A network of transcriptional repressors modulates auxin responses. <i>Nature</i> , <b>2021</b> , 589, 116-119   | 50.4 | 15 |
| 44 | Integration of large-scale data for extraction of integrated Arabidopsis root cell-type specific models. <i>Scientific Reports</i> , <b>2018</b> , 8, 7919  | 4.9  | 15 |
| 43 | Gene regulatory networks in the Arabidopsis root. <i>Current Opinion in Plant Biology</i> , <b>2013</b> , 16, 50-5  | 9.9  | 14 |
| 42 | Extreme breeding: Leveraging genomics for crop improvement. <i>Journal of the Science of Food and Agriculture</i> , <b>2007</b> , 87, 925-929   | 4.3  | 14 |
| 41 | The polyadenylation factor FIP1 is important for plant development and root responses to abiotic stresses. <i>Plant Journal</i> , <b>2019</b> , 99, 1203-1219   | 6.9  | 13 |
| 40 | Single cell RNA sequencing and its promise in reconstructing plant vascular cell lineages. <i>Current Opinion in Plant Biology</i> , <b>2019</b> , 48, 47-56  | 9.9  | 11 |
| 39 | Clustering and Differential Alignment Algorithm: Identification of Early Stage Regulators in the Arabidopsis thaliana Iron Deficiency Response. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136591                          | 3.7  | 11 |
| 38 | Regulation of Root Angle and Gravitropism. <i>G3: Genes, Genomes, Genetics</i> , <b>2018</b> , 8, 3841-3855   | 3.2  | 11 |
| 37 | The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. <i>Plant Physiology</i> , <b>2017</b> , 175, 1499-1509  | 6.6  | 10 |
| 36 | Draft Genome Sequence of Rhizobium rhizogenes Strain ATCC 15834. <i>Genome Announcements</i> , <b>2014</b> , 2,   |      | 10 |
| 35 | A Standardized Synthetic Eucalyptus Transcription Factor and Promoter Panel for Re-engineering Secondary Cell Wall Regulation in Biomass and Bioenergy Crops. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 463-465 | 5.7  | 10 |
| 34 | Innovation, conservation, and repurposing of gene function in root cell type development. <i>Cell</i> , <b>2021</b> , 184, 3333-3348.e19  | 56.2 | 9  |
| 33 | Identification of Protein-DNA Interactions Using Enhanced Yeast One-Hybrid Assays and a Semiautomated Approach. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1610, 187-215                                     | 1.4  | 8  |
| 32 | Real-time whole-plant dynamics of heavy metal transport in and by gamma-ray imaging. <i>Plant Direct</i> , <b>2019</b> , 3, e00131  | 3.3  | 8  |
| 31 | Epistatic Transcription Factor Networks Differentially Modulate Growth and Defense. <i>Genetics</i> , <b>2020</b> , 214, 529-541  | 4    | 7  |
| 30 | FRS7 and FRS12 recruit NINJA to regulate expression of glucosinolate biosynthesis genes. <i>New Phytologist</i> , <b>2020</b> , 227, 1124-1137  | 9.8  | 7  |
| 29 | Translational regulation contributes to the elevated CO response in two Solanum species. <i>Plant Journal</i> , <b>2020</b> , 102, 383-397  | 6.9  | 7  |

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|----|---|------|---|
| 28 | Anno genominis XX: 20 years of Arabidopsis genomics. <i>Plant Cell</i> , <b>2021</b> , 33, 832-845  | 11.6 | 5 |
| 27 | Plant single-cell solutions for energy and the environment. <i>Communications Biology</i> , <b>2021</b> , 4, 962  | 6.7  | 5 |
| 26 | Bioinformatic tools in Arabidopsis research. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1062, 97-136   | 1.4  | 4 |
| 25 | Gene Regulatory Networks during Arabidopsis Root Vascular Development. <i>International Journal of Plant Sciences</i> , <b>2013</b> , 174, 1090-1097                                | 2.6  | 4 |
| 24 | Detecting separate time scales in genetic expression data. <i>BMC Genomics</i> , <b>2010</b> , 11, 381  | 4.5  | 4 |
| 23 | High-throughput single-cell transcriptome profiling of plant cell types   |      | 4 |
| 22 | A bipartite transcription factor module controlling expression in the bundle sheath of Arabidopsis thaliana. <i>Nature Plants</i> , <b>2020</b> , 6, 1468-1479                      | 11.5 | 4 |
| 21 | Current status of the multinational Arabidopsis community. <i>Plant Direct</i> , <b>2020</b> , 4, e00248  | 3.3  | 4 |
| 20 | Broadening the impact of plant science through innovative, integrative, and inclusive outreach. <i>Plant Direct</i> , <b>2021</b> , 5, e00316                                       | 3.3  | 4 |
| 19 | A systems approach to understanding root development. <i>Canadian Journal of Botany</i> , <b>2006</b> , 84, 695-701   |      | 3 |
| 18 | Isolation of Nuclei in Tagged Cell Types (INTACT), RNA Extraction and Ribosomal RNA Degradation to Prepare Material for RNA-Seq. <i>Bio-protocol</i> , <b>2018</b> , 8, e2458       | 0.9  | 3 |
| 17 | Crowdsourcing biocuration: The Community Assessment of Community Annotation with Ontologies (CACAO). <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009463                 | 5    | 3 |
| 16 | Indel Group in Genomes (IGG) Molecular Genetic Markers. <i>Plant Physiology</i> , <b>2016</b> , 172, 38-61  | 6.6  | 2 |
| 15 | Toward Development of Fluorescence-Quenching-Based Biosensors for Drought Stress in Plants. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 15644-15651                             | 7.8  | 2 |
| 14 | Innovation, conservation and repurposing of gene function in plant root cell type development   |      | 2 |
| 13 | Bioinformatic Tools in Arabidopsis Research. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2200, 25-89  | 1.4  | 2 |
| 12 | Profiling of accessible chromatin regions across multiple plant species and cell types reveals common gene regulatory principles and new control modules                            |      | 2 |
| 11 | A Ratiometric Dual Color Luciferase Reporter for Fast Characterization of Transcriptional Regulatory Elements in Plants. <i>ACS Synthetic Biology</i> , <b>2021</b> , 10, 2763-2766 | 5.7  | 2 |

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|----|---|------|---|
| 10 | De novo stem cell establishment in meristems requires repression of organ boundary cell fate  |      | 1 |
| 9  | A genome-scale TF-DNA interaction network of transcriptional regulation of Arabidopsis primary and specialized metabolism. <i>Molecular Systems Biology</i> , <b>2021</b> , 17, e10625              | 12.2 | 1 |
| 8  | When the time is ripe. <i>ELife</i> , <b>2013</b> , 2, e00958   | 8.9  | 1 |
| 7  | Arabidopsis bioinformatics: tools and strategies. <i>Plant Journal</i> , <b>2021</b> ,  | 6.9  | 1 |
| 6  | Nuclear transcriptomes at high resolution using retooled INTACT   |      | 1 |
| 5  | Characterization of growth and development of sorghum genotypes with differential susceptibility to <i>Striga hermonthica</i> . <i>Journal of Experimental Botany</i> , <b>2021</b> , 72, 7970-7983 | 7    | 1 |
| 4  | GLRs: Mediating a defense-regeneration tradeoff in plants.. <i>Developmental Cell</i> , <b>2022</b> , 57, 417-418   | 10.2 | 0 |
| 3  | Forming roots from shoot.. <i>Science</i> , <b>2022</b> , 375, 974-975  | 33.3 | 0 |
| 2  | Development and Systems Biology: Riding the Genomics Wave towards a Systems Understanding of Root Development <b>2018</b> , 304-330   |      |   |
| 1  | Development and Systems Biology: Riding the Genomics Wave towards a Systems Understanding of Root Development304-330  |      |   |