

Neil J Shirley

List of Publications by Year in Descending Order

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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.

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|-------------------|-------------------------|---------------|-----------------|
| 79 papers | 4,409 citations | 31 h-index | 66 g-index |
| 82 ext. papers | 5,465 ext. citations | 7 avg, IF | 5.19 L-index |

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 79 | Auxin Treatment Enhances Anthocyanin Production in the Non-Climacteric Sweet Cherry (L.). <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 1 |
| 78 | Identification and spatio-temporal expression analysis of barley genes that encode putative modular xylanolytic enzymes. <i>Plant Science</i> , 2021 , 308, 110792 | 5.3 | |
| 77 | HvLEAFY controls the early stages of floral organ specification and inhibits the formation of multiple ovaries in barley. <i>Plant Journal</i> , 2021 , 108, 509-527 | 6.9 | 2 |
| 76 | Transcript Profiling of MIKCC MADS-Box Genes Reveals Conserved and Novel Roles in Barley Inflorescence Development. <i>Frontiers in Plant Science</i> , 2021 , 12, 705286 | 6.2 | 1 |
| 75 | Another building block in the plant cell wall: Barley xyloglucan xyloglucosyl transferases link covalently xyloglucan and anionic oligosaccharides derived from pectin. <i>Plant Journal</i> , 2020 , 104, 752-767 | 6.9 | 8 |
| 74 | Overexpression of HvCslF6 in barley grain alters carbohydrate partitioning plus transfer tissue and endosperm development. <i>Journal of Experimental Botany</i> , 2020 , 71, 138-153 | 7 | 10 |
| 73 | Composition and biosynthetic machinery of the f. sp. conidia cell wall. <i>Cell Surface</i> , 2019 , 5, 100029 | 4.8 | 3 |
| 72 | Analysis of cell wall synthesis and metabolism during early germination of f. sp. conidial cells induced. <i>Cell Surface</i> , 2019 , 5, 100030 | 4.8 | 6 |
| 71 | Wheat wounding-responsive HD-Zip IV transcription factor GL7 is predominantly expressed in grain and activates genes encoding defensins. <i>Plant Molecular Biology</i> , 2019 , 101, 41-61 | 4.6 | 5 |
| 70 | A Novel (1,4)- β -Linked Glucoxytan Is Synthesized by Members of the Gene Family in Land Plants. <i>ACS Central Science</i> , 2019 , 5, 73-84 | 16.8 | 15 |
| 69 | Translating auxin responses into ovules, seeds and yield: Insight from Arabidopsis and the cereals. <i>Journal of Integrative Plant Biology</i> , 2019 , 61, 310-336 | 8.3 | 26 |
| 68 | Differences in hydrolytic enzyme activity accompany natural variation in mature aleurone morphology in barley (<i>Hordeum vulgare</i> L.). <i>Scientific Reports</i> , 2018 , 8, 11025 | 4.9 | 17 |
| 67 | Exploring the Role of Cell Wall-Related Genes and Polysaccharides during Plant Development. <i>Plants</i> , 2018 , 7, | 4.5 | 31 |
| 66 | Asexual Female Gametogenesis Involves Contact with a Sexually-Fated Megaspore in Apomictic. <i>Plant Physiology</i> , 2018 , 177, 1027-1049 | 6.6 | 20 |
| 65 | Revised Phylogeny of the Gene Superfamily: Insights into Cell Wall Evolution. <i>Plant Physiology</i> , 2018 , 177, 1124-1141 | 6.6 | 64 |
| 64 | Transcriptomics technologies. <i>PLoS Computational Biology</i> , 2017 , 13, e1005457 | 5 | 385 |
| 63 | Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in Using Gamma Irradiation and Infrared Spectroscopy. <i>Frontiers in Plant Science</i> , 2017 , 8, 326 | 6.2 | 13 |

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| 62 | Altered Expression of Genes Implicated in Xylan Biosynthesis Affects Penetration Resistance against Powdery Mildew. <i>Frontiers in Plant Science</i> , 2017 , 8, 445 | 6.2 | 15 |
| 61 | Morphology, Carbohydrate Distribution, Gene Expression, and Enzymatic Activities Related to Cell Wall Hydrolysis in Four Barley Varieties during Simulated Malting. <i>Frontiers in Plant Science</i> , 2017 , 8, 1872 | 6.2 | 17 |
| 60 | A Genome Wide Association Study of arabinoxylan content in 2-row spring barley grain. <i>PLoS ONE</i> , 2017 , 12, e0182537 | 3.7 | 14 |
| 59 | EPSPS gene amplification in glyphosate-resistant <i>Bromus diandrus</i> . <i>Pest Management Science</i> , 2016 , 72, 81-8 | 4.6 | 63 |
| 58 | Down-regulation of the glucan synthase-like 6 gene (HvGsl6) in barley leads to decreased callose accumulation and increased cell wall penetration by <i>Blumeria graminis</i> f. sp. <i>hordei</i> . <i>New Phytologist</i> , 2016 , 212, 434-43 | 9.8 | 25 |
| 57 | The Dynamics of Transcript Abundance during Cellularization of Developing Barley Endosperm. <i>Plant Physiology</i> , 2016 , 170, 1549-65 | 6.6 | 23 |
| 56 | Prospecting for Energy-Rich Renewable Raw Materials: Sorghum Stem Case Study. <i>PLoS ONE</i> , 2016 , 11, e0156638 | 3.7 | 5 |
| 55 | The Plant Cell Wall: A Complex and Dynamic Structure As Revealed by the Responses of Genes under Stress Conditions. <i>Frontiers in Plant Science</i> , 2016 , 7, 984 | 6.2 | 175 |
| 54 | Temperature influences the level of glyphosate resistance in barnyardgrass (<i>Echinochloa colona</i>). <i>Pest Management Science</i> , 2016 , 72, 1031-9 | 4.6 | 31 |
| 53 | Differences in glycosyltransferase family 61 accompany variation in seed coat mucilage composition in <i>Plantago</i> spp. <i>Journal of Experimental Botany</i> , 2016 , 67, 6481-6495 | 7 | 24 |
| 52 | Genetics, Transcriptional Profiles, and Catalytic Properties of the UDP-Arabinose Mutase Family from Barley. <i>Biochemistry</i> , 2016 , 55, 322-34 | 3.2 | 9 |
| 51 | Carbon Flux and Carbohydrate Gene Families in Pineapple. <i>Tropical Plant Biology</i> , 2016 , 9, 200-213 | 1.6 | 7 |
| 50 | Evolutionary Dynamics of the Cellulose Synthase Gene Superfamily in Grasses. <i>Plant Physiology</i> , 2015 , 168, 968-83 | 6.6 | 35 |
| 49 | Differential expression of the gene late in grain development may explain quantitative differences in (1,3;1,4)- β -glucan concentration in barley. <i>Molecular Breeding</i> , 2015 , 35, 20 | 3.4 | 13 |
| 48 | Powerful regulatory systems and post-transcriptional gene silencing resist increases in cellulose content in cell walls of barley. <i>BMC Plant Biology</i> , 2015 , 15, 62 | 5.3 | 27 |
| 47 | The pineapple genome and the evolution of CAM photosynthesis. <i>Nature Genetics</i> , 2015 , 47, 1435-42 | 36.3 | 309 |
| 46 | Distribution, structure and biosynthetic gene families of (1,3;1,4)- β -glucan in <i>Sorghum bicolor</i> . <i>Journal of Integrative Plant Biology</i> , 2015 , 57, 429-45 | 8.3 | 22 |
| 45 | Genetics and physiology of cell wall polysaccharides in the model C4 grass, <i>Setaria viridis</i> spp. <i>BMC Plant Biology</i> , 2015 , 15, 236 | 5.3 | 11 |

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| 44 | Increased expression of six ZIP family genes by zinc (Zn) deficiency is associated with enhanced uptake and root-to-shoot translocation of Zn in barley (<i>Hordeum vulgare</i>). <i>New Phytologist</i> , 2015 , 207, 1097-109 | 9.8 | 78 |
| 43 | The dynamics of cereal cyst nematode infection differ between susceptible and resistant barley cultivars and lead to changes in (1,3;1,4)- β -glucan levels and HvCslF gene transcript abundance. <i>New Phytologist</i> , 2015 , 207, 135-147 | 9.8 | 31 |
| 42 | Expression patterns and protein structure of a lipid transfer protein END1 from Arabidopsis. <i>Planta</i> , 2014 , 240, 1319-34 | 4.7 | 1 |
| 41 | A genome wide association scan for (1,3;1,4)- β -glucan content in the grain of contemporary 2-row Spring and Winter barleys. <i>BMC Genomics</i> , 2014 , 15, 907 | 4.5 | 42 |
| 40 | Spatial gradients in cell wall composition and transcriptional profiles along elongating maize internodes. <i>BMC Plant Biology</i> , 2014 , 14, 27 | 5.3 | 39 |
| 39 | The response of the maize nitrate transport system to nitrogen demand and supply across the lifecycle. <i>New Phytologist</i> , 2013 , 198, 82-94 | 9.8 | 85 |
| 38 | Grain development in Brachypodium and other grasses: possible interactions between cell expansion, starch deposition, and cell-wall synthesis. <i>Journal of Experimental Botany</i> , 2013 , 64, 5033-47 | 7 | 40 |
| 37 | Complex regulation by Apetala2 domain-containing transcription factors revealed through analysis of the stress-responsive TdCor410b promoter from durum wheat. <i>PLoS ONE</i> , 2013 , 8, e58713 | 3.7 | 27 |
| 36 | Clusters of genes encoding fructan biosynthesizing enzymes in wheat and barley. <i>Plant Molecular Biology</i> , 2012 , 80, 299-314 | 4.6 | 23 |
| 35 | Characterization of the wheat gene encoding a grain-specific lipid transfer protein TdPR61, and promoter activity in wheat, barley and rice. <i>Journal of Experimental Botany</i> , 2012 , 63, 2025-40 | 7 | 15 |
| 34 | Endo-(1,4)- β -glucanase gene families in the grasses: temporal and spatial co-transcription of orthologous genes. <i>BMC Plant Biology</i> , 2012 , 12, 235 | 5.3 | 27 |
| 33 | Pattern of deposition of cell wall polysaccharides and transcript abundance of related cell wall synthesis genes during differentiation in barley endosperm. <i>Plant Physiology</i> , 2012 , 159, 655-70 | 6.6 | 38 |
| 32 | The scutellar vascular bundle-specific promoter of the wheat HD-Zip IV transcription factor shows similar spatial and temporal activity in transgenic wheat, barley and rice. <i>Plant Biotechnology Journal</i> , 2012 , 10, 43-53 | 11.6 | 13 |
| 31 | A two-staged model of Na ⁺ exclusion in rice explained by 3D modeling of HKT transporters and alternative splicing. <i>PLoS ONE</i> , 2012 , 7, e39865 | 3.7 | 134 |
| 30 | Over-expression of specific HvCslF cellulose synthase-like genes in transgenic barley increases the levels of cell wall (1,3;1,4)- β -glucans and alters their fine structure. <i>Plant Biotechnology Journal</i> , 2011 , 9, 117-35 | 11.6 | 131 |
| 29 | Improvement of stress tolerance of wheat and barley by modulation of expression of DREB/CBF factors. <i>Plant Biotechnology Journal</i> , 2011 , 9, 230-49 | 11.6 | 318 |
| 28 | Phosphate utilization efficiency correlates with expression of low-affinity phosphate transporters and noncoding RNA, IPS1, in barley. <i>Plant Physiology</i> , 2011 , 156, 1217-29 | 6.6 | 89 |
| 27 | Cell wall modifications in maize pulvini in response to gravitational stress. <i>Plant Physiology</i> , 2011 , 156, 2155-71 | 6.6 | 13 |

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| 26 | Defensin promoters as potential tools for engineering disease resistance in cereal grains. <i>Plant Biotechnology Journal</i> , 2010 , 8, 47-64 | 11.6 | 40 |
| 25 | The genetics, transcriptional profiles, and catalytic properties of UDP-alpha-D-xylose 4-epimerases from barley. <i>Plant Physiology</i> , 2010 , 153, 555-68 | 6.6 | 13 |
| 24 | A customized gene expression microarray reveals that the brittle stem phenotype fs2 of barley is attributable to a retroelement in the HvCesA4 cellulose synthase gene. <i>Plant Physiology</i> , 2010 , 153, 1716-28 | 6.6 | 28 |
| 23 | Phylogenetic analysis and functional characterisation of strictosidine synthase-like genes in <i>Arabidopsis thaliana</i> . <i>Functional Plant Biology</i> , 2010 , 36, 1098-1109 | 2.7 | 7 |
| 22 | Expression of vacuolar H ⁺ -pyrophosphatase (OVP3) is under control of an anoxia-inducible promoter in rice. <i>Plant Molecular Biology</i> , 2010 , 72, 47-60 | 4.6 | 28 |
| 21 | Improved salinity tolerance of rice through cell type-specific expression of AtHKT1;1. <i>PLoS ONE</i> , 2010 , 5, e12571 | 3.7 | 106 |
| 20 | The CELLULOSE-SYNTHASE LIKE C (CSLC) family of barley includes members that are integral membrane proteins targeted to the plasma membrane. <i>Molecular Plant</i> , 2009 , 2, 1025-39 | 14.4 | 32 |
| 19 | Analysis of the (1,3)-beta-D-glucan synthase gene family of barley. <i>Phytochemistry</i> , 2009 , 70, 713-20 | 4 | 18 |
| 18 | Spatial and temporal expression of endosperm transfer cell-specific promoters in transgenic rice and barley. <i>Plant Biotechnology Journal</i> , 2008 , 6, 465-76 | 11.6 | 34 |
| 17 | Combining transcriptional datasets using the generalized singular value decomposition. <i>BMC Bioinformatics</i> , 2008 , 9, 335 | 3.6 | 11 |
| 16 | Metabolite profiling reveals distinct changes in carbon and nitrogen metabolism in phosphate-deficient barley plants (<i>Hordeum vulgare</i> L.). <i>Plant and Cell Physiology</i> , 2008 , 49, 691-703 | 4.9 | 130 |
| 15 | The genetics and transcriptional profiles of the cellulose synthase-like HvCslF gene family in barley. <i>Plant Physiology</i> , 2008 , 146, 1821-33 | 6.6 | 177 |
| 14 | Identification and characterisation of barley (<i>Hordeum vulgare</i>) respiratory burst oxidase homologue family members. <i>Functional Plant Biology</i> , 2008 , 35, 347-359 | 2.7 | 28 |
| 13 | Microarray expression analysis of meiosis and microsporogenesis in hexaploid bread wheat. <i>BMC Genomics</i> , 2006 , 7, 267 | 4.5 | 65 |
| 12 | Discovery of cyclotide-like protein sequences in graminaceous crop plants: ancestral precursors of circular proteins?. <i>Plant Cell</i> , 2006 , 18, 2134-44 | 11.6 | 62 |
| 11 | Cellulose synthase-like CslF genes mediate the synthesis of cell wall (1,3;1,4)-beta-D-glucans. <i>Science</i> , 2006 , 311, 1940-2 | 33.3 | 346 |
| 10 | Isolation of plant transcription factors using a modified yeast one-hybrid system. <i>Plant Methods</i> , 2006 , 2, 3 | 5.8 | 47 |
| 9 | Gene expression patterns and catalytic properties of UDP-D-glucose 4-epimerases from barley (<i>Hordeum vulgare</i> L.). <i>Biochemical Journal</i> , 2006 , 394, 115-24 | 3.8 | 38 |

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| 8 | Gene structure and expression pattern analysis of three monodehydroascorbate reductase (MdhAr) genes in <i>Physcomitrella patens</i> : implications for the evolution of the MDHAR family in plants. <i>Plant Molecular Biology</i> , 2006 , 60, 259-75 | 4.6 | 46 |
| 7 | Systematic identification of factors involved in post-transcriptional processes in wheat grain. <i>Plant Molecular Biology</i> , 2006 , 62, 637-53 | 4.6 | 14 |
| 6 | Characterization and expression patterns of UDP-D-glucuronate decarboxylase genes in barley. <i>Plant Physiology</i> , 2005 , 138, 131-41 | 6.6 | 24 |
| 5 | The CesA gene family of barley. Quantitative analysis of transcripts reveals two groups of co-expressed genes. <i>Plant Physiology</i> , 2004 , 134, 224-36 | 6.6 | 248 |
| 4 | Evidence for multiple interspecific hybridization in <i>Saccharomyces sensu stricto</i> species. <i>FEMS Yeast Research</i> , 2002 , 1, 323-331 | 3.1 | 4 |
| 3 | Nuisance Proteins of Wine Are Grape Pathogenesis-Related Proteins. <i>Journal of Agricultural and Food Chemistry</i> , 1996 , 44, 3-5 | 5.7 | 151 |
| 2 | Barley beta-D-glucan exohydrolases with beta-D-glucosidase activity. Purification, characterization, and determination of primary structure from a cDNA clone. <i>Journal of Biological Chemistry</i> , 1996 , 271, 5277-86 | 5.4 | 116 |
| 1 | Probing the hammerhead ribozyme structure with ribonucleases. <i>Nucleic Acids Research</i> , 1994 , 22, 1620-50.1 | 5.0 | 19 |