

# John Hugh Doonan

## List of Publications by Year in descending order

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113  
papers

9,711  
citations

44069

48  
h-index

38395

95  
g-index

119  
all docs

119  
docs citations

119  
times ranked

10539  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tef: a tiny grain with enormous potential. <i>Trends in Plant Science</i> , 2022, 27, 220-223.	8.8	11
2	Genetic architecture of variation in <i>Arabidopsis thaliana</i> rosettes. <i>PLoS ONE</i> , 2022, 17, e0263985.	2.5	0
3	Molecular and physiological responses to desiccation indicate the abscisic acid pathway is conserved in the peat moss, <i>Sphagnum</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 4576-4591.	4.8	2
4	Total <i>FLC</i> transcript dynamics from divergent paralogue expression explains flowering diversity in <i>Brassica napus</i> . <i>New Phytologist</i> , 2021, 229, 3534-3548.	7.3	32
5	Deep Segmentation of Point Clouds of Wheat. <i>Frontiers in Plant Science</i> , 2021, 12, 608732.	3.6	21
6	Metabolomic Variation Aligns with Two Geographically Distinct Subpopulations of <i>Brachypodium distachyon</i> before and after Drought Stress. <i>Cells</i> , 2021, 10, 683.	4.1	11
7	Allotetraploidization in <i>Brachypodium</i> May Have Led to the Dominance of One Parent's Metabolome in Germinating Seeds. <i>Cells</i> , 2021, 10, 828.	4.1	1
8	Ectopic expression of <i>Triticum polonicum</i> VRT-A2 underlies elongated glumes and grains in hexaploid wheat in a dosage-dependent manner. <i>Plant Cell</i> , 2021, 33, 2296-2319.	6.6	36
9	Direct and accurate feature extraction from 3D point clouds of plants using RANSAC. <i>Computers and Electronics in Agriculture</i> , 2021, 187, 106240.	7.7	25
10	A Functional Kinase Is Necessary for Cyclin-Dependent Kinase G1 (CDKG1) to Maintain Fertility at High Ambient Temperature in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 586870.	3.6	6
11	Gradual polyploid genome evolution revealed by pan-genomic analysis of <i>Brachypodium hybridum</i> and its diploid progenitors. <i>Nature Communications</i> , 2020, 11, 3670.	12.8	67
12	Genetic and Methylome Variation in Turkish <i>Brachypodium distachyon</i> Accessions Differentiate Two Geographically Distinct Subpopulations. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6700.	4.1	14
13	A CRISPR/Cas9-Based Mutagenesis Protocol for <i>Brachypodium distachyon</i> and Its Allopolyploid Relative, <i>Brachypodium hybridum</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 614.	3.6	9
14	DeepPod: a convolutional neural network based quantification of fruit number in <i>Arabidopsis</i> . <i>GigaScience</i> , 2020, 9, .	6.4	25
15	In Vitro Tissue Culture in <i>Brachypodium</i> : Applications and Challenges. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1037.	4.1	9
16	CDKG1 Is Required for Meiotic and Somatic Recombination Intermediate Processing in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020, 32, 1308-1322.	6.6	11
17	Crop Phenomics and High-Throughput Phenotyping: Past Decades, Current Challenges, and Future Perspectives. <i>Molecular Plant</i> , 2020, 13, 187-214.	8.3	423
18	Thermo-Sensitive Alternative Splicing of FLOWERING LOCUS M Is Modulated by Cyclin-Dependent Kinase G2. <i>Frontiers in Plant Science</i> , 2020, 10, 1680.	3.6	38

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19	Mechanical stimulation in <i>Brachypodium distachyon</i> : Implications for fitness, productivity, and cell wall properties. <i>Plant, Cell and Environment</i> , 2020, 43, 1314-1330.	5.7	20
20	Drought priming effects on alleviating the photosynthetic limitations of wheat cultivars ( <i>Triticum aestivum</i> L.) with contrasting tolerance to abiotic stresses. <i>Journal of Agronomy and Crop Science</i> , 2020, 206, 651-664.	3.5	17
21	¼ CT trait analysis reveals morphometric differences between domesticated temperate small grain cereals and their wild relatives. <i>Plant Journal</i> , 2019, 99, 98-111.	5.7	19
22	The cyclin-dependent kinase G group defines a thermo-sensitive alternative splicing circuit modulating the expression of Arabidopsis <i>ATU2AF65A</i> . <i>Plant Journal</i> , 2018, 94, 1010-1022.	5.7	56
23	Cell Wall Epitopes and Endoploidy as Reporters of Embryogenic Potential in <i>Brachypodium Distachyon</i> Callus Culture. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3811.	4.1	10
24	The histone acetyltransferase GCN5 and the transcriptional coactivator ADA2b affect leaf development and trichome morphogenesis in Arabidopsis. <i>Planta</i> , 2018, 248, 613-628.	3.2	25
25	Editorial: Phenomics. <i>Frontiers in Plant Science</i> , 2018, 9, 678.	3.6	7
26	The Mitotic Function of Augmin Is Dependent on Its Microtubule-Associated Protein Subunit EDE1 in <i>Arabidopsis thaliana</i> . <i>Current Biology</i> , 2017, 27, 3891-3897.e4.	3.9	36
27	Natural Variation in <i>Brachypodium</i> Links Vernalization and Flowering Time Loci as Major Flowering Determinants. <i>Plant Physiology</i> , 2017, 173, 256-268.	4.8	28
28	Non-destructive, high-content analysis of wheat grain traits using X-ray micro computed tomography. <i>Plant Methods</i> , 2017, 13, 76.	4.3	73
29	Determining Phenological Patterns Associated with the Onset of Senescence in a Wheat MAGIC Mapping Population. <i>Frontiers in Plant Science</i> , 2016, 7, 1540.	3.6	36
30	Linking Dynamic Phenotyping with Metabolite Analysis to Study Natural Variation in Drought Responses of <i>Brachypodium distachyon</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1751.	3.6	53
31	eIF4A RNA Helicase Associates with Cyclin-Dependent Protein Kinase A in Proliferating Cells and Is Modulated by Phosphorylation. <i>Plant Physiology</i> , 2016, 172, 128-140.	4.8	25
32	Automated estimation of tiller number in wheat by ribbon detection. <i>Machine Vision and Applications</i> , 2016, 27, 637-646.	2.7	13
33	The RNA helicase, eIF4A1, is required for ovule development and cell size homeostasis in Arabidopsis. <i>Plant Journal</i> , 2015, 84, 989-1004.	5.7	38
34	Estimation of Branch Angle from 3D Point Cloud of Plants. , 2015, , .		7
35	Transcriptional repression by MYB 3R proteins regulates plant organ growth. <i>EMBO Journal</i> , 2015, 34, 1992-2007.	7.8	128
36	Automatic estimation of wheat grain morphometry from computed tomography data. <i>Functional Plant Biology</i> , 2015, 42, 452.	2.1	26

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37	<i>Arabidopsis</i> KCBP interacts with AIR9 but stays in the cortical division zone throughout mitosis via its MyTH4-FERM domain. <i>Journal of Cell Science</i> , 2015, 128, 2033-2046.	2.0	66
38	CDKG1 protein kinase is essential for synapsis and male meiosis at high ambient temperature in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2182-2187.	7.1	92
39	Kinesins Have a Dual Function in Organizing Microtubules during Both Tip Growth and Cytokinesis in <i>Physcomitrella patens</i> . <i>Plant Cell</i> , 2014, 26, 1256-1266.	6.6	56
40	Endopolyploidy as a potential alternative adaptive strategy for <i>Arabidopsis</i> leaf size variation in response to UV-B. <i>Journal of Experimental Botany</i> , 2014, 65, 2757-2766.	4.8	59
41	Accurate Multi-View Stereo 3D Reconstruction for Cost-Effective Plant Phenotyping. <i>Lecture Notes in Computer Science</i> , 2014, , 349-356.	1.3	17
42	Gene dosage effect of WEE1 on growth and morphogenesis from <i>Arabidopsis</i> hypocotyl explants. <i>Annals of Botany</i> , 2012, 110, 1631-1639.	2.9	10
43	T-DNA mutagenesis in <i>Brachypodium distachyon</i> . <i>Journal of Experimental Botany</i> , 2012, 63, 567-576.	4.8	51
44	The auxin signalling network translates dynamic input into robust patterning at the shoot apex. <i>Molecular Systems Biology</i> , 2011, 7, 508.	7.2	520
45	A Tâ€DNA mutation in the RNA helicase eIF4A confers a doseâ€dependent dwarfing phenotype in <i>Brachypodium distachyon</i> . <i>Plant Journal</i> , 2011, 66, 929-940.	5.7	25
46	Plant organelle proteomics: Collaborating for optimal cell function. <i>Mass Spectrometry Reviews</i> , 2011, 30, 772-853.	5.4	89
47	<i>Arabidopsis</i> T-DNA insertional lines for CDC25 are hypersensitive to hydroxyurea but not to zeocin or salt stress. <i>Annals of Botany</i> , 2011, 107, 1183-1192.	2.9	30
48	Interaction of a 14-3-3 protein with the plant microtubule-associated protein EDE1. <i>Annals of Botany</i> , 2011, 107, 1103-1109.	2.9	20
49	Cyclin dependent protein kinases and stress responses in plants. <i>Plant Signaling and Behavior</i> , 2011, 6, 204-209.	2.4	67
50	Endosperm development in <i>Brachypodium distachyon</i> . <i>Journal of Experimental Botany</i> , 2011, 62, 735-748.	4.8	68
51	Ploidyâ€associated genomic instability in <i>Arabidopsis thaliana</i> . <i>Genesis</i> , 2010, 48, 254-263.	1.6	22
52	Ploidy-Associated Genomic Instability in <i>Arabidopsis thaliana</i> . <i>Genesis</i> , 2010, 48, spcone-spcone.	1.6	21
53	Cyclin-dependent kinase activity retains the shoot apical meristem cells in an undifferentiated state. <i>Plant Journal</i> , 2010, 64, no-no.	5.7	26
54	AtTRB1, a telomeric DNA-binding protein from <i>Arabidopsis</i> , is concentrated in the nucleolus and shows highly dynamic association with chromatin. <i>Plant Journal</i> , 2010, 61, 637-649.	5.7	29

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55	Walls around tumours " why plants do not develop cancer. <i>Nature Reviews Cancer</i> , 2010, 10, 794-802.	28.4	67
56	The <i>Arabidopsis</i> RNA-Directed DNA Methylation Argonautes Functionally Diverge Based on Their Expression and Interaction with Target Loci. <i>Plant Cell</i> , 2010, 22, 321-334.	6.6	346
57	A Genetic Framework for Grain Size and Shape Variation in Wheat. <i>Plant Cell</i> , 2010, 22, 1046-1056.	6.6	397
58	Functional Evolution of Cyclin-Dependent Kinases. <i>Molecular Biotechnology</i> , 2009, 42, 14-29.	2.4	73
59	Selective recruitment of proteins to 5' cap complexes during the growth cycle in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2009, 59, 400-412.	5.7	53
60	UVR8 in <i>Arabidopsis thaliana</i> regulates multiple aspects of cellular differentiation during leaf development in response to ultraviolet B radiation. <i>New Phytologist</i> , 2009, 183, 315-326.	7.3	138
61	In situ Analysis of Gene Expression in Plants. <i>Methods in Molecular Biology</i> , 2009, 513, 229-242.	0.9	5
62	ENDOSPERM DEFECTIVE1 Is a Novel Microtubule-Associated Protein Essential for Seed Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2009, 21, 90-105.	6.6	80
63	A cyclin-dependent protein kinase, CDKC2, colocalizes with and modulates the distribution of spliceosomal components in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2008, 54, 220-235.	5.7	36
64	<i>Brachypodium distachyon</i> : making hay with a wild grass. <i>Trends in Plant Science</i> , 2008, 13, 172-177.	8.8	174
65	Proximal-distal patterns of transcription factor gene expression during <i>Arabidopsis</i> root development. <i>Journal of Experimental Botany</i> , 2008, 59, 235-245.	4.8	9
66	<i>Arabidopsis</i> Reactome: A Foundation Knowledgebase for Plant Systems Biology. <i>Plant Cell</i> , 2008, 20, 1426-1436.	6.6	52
67	<i>Arabidopsis</i> POT1A interacts with TERT-V(18), an N-terminal splicing variant of telomerase. <i>Journal of Cell Science</i> , 2007, 120, 3678-3687.	2.0	123
68	AtMAP70-5, a divergent member of the MAP70 family of microtubule-associated proteins, is required for anisotropic cell growth in <i>Arabidopsis</i> . <i>Journal of Cell Science</i> , 2007, 120, 2241-2247.	2.0	73
69	Coupling the GAL4 UAS system with alcR for versatile cell type-specific chemically inducible gene expression in <i>Arabidopsis</i> . <i>Plant Biotechnology Journal</i> , 2007, 5, 465-476.	8.3	11
70	Silencing by plant Polycomb-group genes requires dispersed trimethylation of histone H3 at lysine 27. <i>EMBO Journal</i> , 2006, 25, 4638-4649.	7.8	396
71	Expression of Cell Cycle Genes in Shoot Apical Meristems. <i>Plant Molecular Biology</i> , 2006, 60, 947-961.	3.9	14
72	Microtubule-Associated AIR9 Recognizes the Cortical Division Site at Preprophase and Cell-Plate Insertion. <i>Current Biology</i> , 2006, 16, 1938-1943.	3.9	118

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73	The role of MAP65-1 in microtubule bundling during <i>Zinnia</i> tracheary element formation. <i>Journal of Cell Science</i> , 2006, 119, 753-758.	2.0	55
74	The Plant Cell Cycle: An Overview. , 2005, 296, 031-050.		2
75	Identification of a novel family of 70â€ƒDa microtubule-associated proteins in <i>Arabidopsis</i> cells. <i>Plant Journal</i> , 2005, 42, 547-555.	5.7	92
76	Modulated targeting of GFP-AtMAP65-1 to central spindle microtubules during division. <i>Plant Journal</i> , 2005, 43, 469-478.	5.7	59
77	Sequencing of <i>Aspergillus nidulans</i> and comparative analysis with <i>A. fumigatus</i> and <i>A. oryzae</i> . <i>Nature</i> , 2005, 438, 1105-1115.	27.8	1,250
78	Systematic Spatial Analysis of Gene Expression during Wheat Caryopsis Development. <i>Plant Cell</i> , 2005, 17, 2172-2185.	6.6	112
79	The alc-GR System. A Modified alc Gene Switch Designed for Use in Plant Tissue Culture. <i>Plant Physiology</i> , 2005, 138, 1259-1267.	4.8	27
80	A streamlined method for systematic, high resolution in situ analysis of mRNA distribution in plants. <i>Plant Methods</i> , 2005, 1, 8.	4.3	21
81	CHPA, a Cysteine- and Histidine-Rich-Domain-Containing Protein, Contributes to Maintenance of the Diploid State in <i>Aspergillus nidulans</i> . <i>Eukaryotic Cell</i> , 2004, 3, 984-991.	3.4	11
82	CycD1, a Putative G1 Cyclin from <i>Antirrhinum majus</i> , Accelerates the Cell Cycle in Cultured Tobacco BY-2 Cells by Enhancing Both G1/S Entry and Progression through S and G2 Phases. <i>Plant Cell</i> , 2004, 16, 2364-2379.	6.6	93
83	The pot1+ homologue in <i>Aspergillus nidulans</i> is required for ordering mitotic events. <i>Journal of Cell Science</i> , 2004, 117, 199-209.	2.0	19
84	High-throughput protein localization in <i>Arabidopsis</i> using <i>Agrobacterium</i> -mediated transient expression of GFP-ORF fusions. <i>Plant Journal</i> , 2004, 41, 162-174.	5.7	190
85	Transition of G1 to early S phase may be required for <i>zinnia</i> mesophyll cells to trans-differentiate to tracheary elements. <i>Planta</i> , 2004, 220, 172-176.	3.2	15
86	In vivo interaction between CDKA and eIF4A: a possible mechanism linking translation and cell proliferation. <i>FEBS Letters</i> , 2004, 556, 91-94.	2.8	28
87	The ethanol switch: a tool for tissue-specific gene induction during plant development. <i>Plant Journal</i> , 2003, 36, 918-930.	5.7	115
88	EB1 reveals mobile microtubule nucleation sites in <i>Arabidopsis</i> . <i>Nature Cell Biology</i> , 2003, 5, 967-971.	10.3	217
89	Developmental control of the cell cycle. <i>Cell Biology International</i> , 2003, 27, 283-285.	3.0	4
90	Regulation of the Pollen-Specific Actin-Depolymerizing Factor LIADF1. <i>Plant Cell</i> , 2002, 14, 2915-2927.	6.6	160

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91	A type 2A protein phosphatase gene from <i>Aspergillus nidulans</i> is involved in hyphal morphogenesis. <i>Current Genetics</i> , 2001, 39, 25-34.	1.7	15
92	Cell Cycle Regulation of Cyclin-Dependent Kinases in Tobacco Cultivar Bright Yellow-2 Cells. <i>Plant Physiology</i> , 2001, 126, 1214-1223.	4.8	114
93	G2/M-Phase-Specific Transcription during the Plant Cell Cycle Is Mediated by c-Myb-Like Transcription Factors. <i>Plant Cell</i> , 2001, 13, 1891-1905.	6.6	185
94	Cellular basis of shoot apical meristem development. <i>International Review of Cytology</i> , 2001, 208, 161-206.	6.2	33
95	The Arabidopsis D-type Cyclins CycD2 and CycD3 Both Interact in Vivo with the PSTAIRE Cyclin-dependent Kinase Cdc2a but Are Differentially Controlled. <i>Journal of Biological Chemistry</i> , 2001, 276, 7041-7047.	3.4	100
96	Glucosylase::green fluorescent protein fusions to monitor protein secretion in <i>Aspergillus niger</i> . <i>Microbiology (United Kingdom)</i> , 2000, 146, 415-426.	1.8	118
97	The Expression of D-Cyclin Genes Defines Distinct Developmental Zones in Snapdragon Apical Meristems and Is Locally Regulated by the Cycloidea Gene. <i>Plant Physiology</i> , 2000, 122, 1137-1148.	4.8	185
98	The <i>Aspergillus nidulans</i> hfa mutations affect genomic stability and cause diverse defects in cell cycle progression and cellular morphogenesis. <i>Mycological Research</i> , 2000, 104, 1439-1448.	2.5	2
99	Cloning and characterization of the unusual cyclin gene from an amphidiploid of <i>Nicotiana glauca</i> - <i>Nicotiana langsdorffii</i> hybrid. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1999, 1489, 399-404.	2.4	4
100	The maize retinoblastoma protein homologue ZmRb-1 is regulated during leaf development and displays conserved interactions with G1/S regulators and plant cyclin D (CycD) proteins. <i>Plant Molecular Biology</i> , 1998, 37, 155-169.	3.9	147
101	Plant-adapted green fluorescent protein is a versatile vital reporter for gene expression, protein localization and mitosis in the filamentous fungus, <i>Aspergillus nidulans</i> . <i>Molecular Microbiology</i> , 1998, 27, 121-130.	2.5	185
102	Plant cyclins: a unified nomenclature for plant A-, B- and D-type cyclins based on sequence organization. <i>Plant Molecular Biology</i> , 1996, 32, 1003-1018.	3.9	232
103	Identification and localisation of a nucleoporin-like protein component of the plant nuclear matrix. <i>Planta</i> , 1992, 187, 414-20.	3.2	17
104	Cycling plant cells. <i>Plant Journal</i> , 1991, 1, 129-132.	5.7	14
105	Two $\alpha$ -tubulin genes of <i>Aspergillus nidulans</i> encode divergent proteins. <i>Molecular Genetics and Genomics</i> , 1991, 225, 129-141.	2.4	43
106	The genetic analysis of mitosis in <i>Aspergillus nidulans</i> . <i>BioEssays</i> , 1989, 10, 196-201.	2.5	21
107	The bimC gene of <i>Aspergillus nidulans</i> , required for completion of anaphase, encodes a homolog of mammalian phosphoprotein phosphatase 1. <i>Cell</i> , 1989, 57, 987-996.	28.9	345
108	Cell-cycle modulation of MPM-2-specific spindle pole body phosphorylation in <i>Aspergillus nidulans</i> . <i>Cytoskeleton</i> , 1988, 10, 432-437.	4.4	71

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109	Aspergillus nidulans contains a single actin gene which has unique intron locations and encodes a $\beta$ -actin. <i>Gene</i> , 1988, 70, 283-293.	2.2	223
110	Spindle formation and chromatin condensation in cells blocked at interphase by mutation of a negative cell cycle control gene. <i>Cell</i> , 1988, 52, 241-251.	28.9	258
111	Pre-prophase band of microtubules, absent from tip-growing moss filaments, arises in leafy shoots during transition to intercalary growth. <i>Cytoskeleton</i> , 1987, 7, 138-153.	4.4	58
112	Microtubule cycle in <i>Chlamydomonas reinhardtii</i> : An Immunofluorescence study. <i>Cytoskeleton</i> , 1987, 7, 381-392.	4.4	41
113	The Arabidopsis Localizome: Subcellular Protein Localization and Interactions in ARABIDOPSIS. , 0, , 61-81.		0