

Julia Bailey-Serres

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.

130 papers	13,888 citations	62 h-index	117 g-index
144 ext. papers	16,667 ext. citations	11 avg, IF	6.83 L-index

#	Paper	IF	Citations
130	Variation in upstream open reading frames contributes to allelic diversity in maize protein abundance.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2112516119	11.5	1
129	Gene regulatory circuitry of plant-environment interactions: scaling from cells to the field. <i>Current Opinion in Plant Biology</i> , 2021 , 65, 102122	9.9	0
128	Improved Transformation and Regeneration of Rice: Disruption of as a Test Case via CRISPR-Cas9. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	7
127	Innovation, conservation, and repurposing of gene function in root cell type development. <i>Cell</i> , 2021 , 184, 3333-3348.e19	56.2	9
126	Conserved and nuanced hierarchy of gene regulatory response to hypoxia. <i>New Phytologist</i> , 2021 , 229, 71-78	9.8	3
125	Vision, challenges and opportunities for a Plant Cell Atlas. <i>ELife</i> , 2021 , 10,	8.9	8
124	The Plant Cell Atlas: Focusing New Technologies on the Kingdom that Nourishes the Planet.. <i>Plant Physiology</i> , 2021 ,	6.6	1
123	Utilizing PacBio Iso-Seq for Novel Transcript and Gene Discovery of Abiotic Stress Responses in L. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
122	DHH1/DDX6-like RNA helicases maintain ephemeral half-lives of stress-response mRNAs. <i>Nature Plants</i> , 2020 , 6, 675-685	11.5	14
121	Nitrogen-responsive transcription factor kinetics meter plant growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13196-13198	11.5	1
120	Reprogramming of Root Cells during Nitrogen-Fixing Symbiosis Involves Dynamic Polysome Association of Coding and Noncoding RNAs. <i>Plant Cell</i> , 2020 , 32, 352-373	11.6	10
119	Flood resilience loci and interact in seedlings established underwater. <i>Plant Direct</i> , 2020 , 4, e00240	3.3	4
118	Ethylene-mediated nitric oxide depletion pre-adapts plants to hypoxia stress. <i>Nature Communications</i> , 2019 , 10, 4020	17.4	89
117	Evolutionary flexibility in flooding response circuitry in angiosperms. <i>Science</i> , 2019 , 365, 1291-1295	33.3	40
116	Integrative Analysis from the Epigenome to Translatome Uncovers Patterns of Dominant Nuclear Regulation during Transient Stress. <i>Plant Cell</i> , 2019 , 31, 2573-2595	11.6	28
115	Searching for a Match: Structure, Function and Application of Sequence-Specific RNA-Binding Proteins. <i>Plant and Cell Physiology</i> , 2019 , 60, 1927-1938	4.9	10
114	After The Deluge: Plant Revival Post-Flooding. <i>Trends in Plant Science</i> , 2019 , 24, 443-454	13.1	36

113	Genetic strategies for improving crop yields. <i>Nature</i> , 2019 , 575, 109-118	50.4	318
112	Rice SUB1A constrains remodelling of the transcriptome and metabolome during submergence to facilitate post-submergence recovery. <i>Plant, Cell and Environment</i> , 2018 , 41, 721-736	8.4	40
111	Nuclear Transcriptomes at High Resolution Using Retooled INTACT. <i>Plant Physiology</i> , 2018 , 176, 270-281	6.6	29
110	Lighting the shadows: methods that expose nuclear and cytoplasmic gene regulatory control. <i>Current Opinion in Biotechnology</i> , 2018 , 49, 29-34	11.4	5
109	A stress recovery signaling network for enhanced flooding tolerance in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E6085-E6094	11.5	78
108	Isolation of Nuclei in Tagged Cell Types (INTACT), RNA Extraction and Ribosomal RNA Degradation to Prepare Material for RNA-Seq. <i>Bio-protocol</i> , 2018 , 8, e2458	0.9	3
107	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> , 2018 , 30, 15-36	11.6	116
106	Polysomes, Stress Granules, and Processing Bodies: A Dynamic Triumvirate Controlling Cytoplasmic mRNA Fate and Function. <i>Plant Physiology</i> , 2018 , 176, 254-269	6.6	85
105	Bioorthogonal Noncanonical Amino Acid Tagging (BONCAT) Enables Time-Resolved Analysis of Protein Synthesis in Native Plant Tissue. <i>Plant Physiology</i> , 2017 , 173, 1543-1553	6.6	29
104	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. <i>New Phytologist</i> , 2017 , 214, 1403-1407	9.8	84
103	Analysis of Ribosome-Associated mRNAs in Rice Reveals the Importance of Transcript Size and GC Content in Translation. <i>G3: Genes, Genomes, Genetics</i> , 2017 , 7, 203-219	3.2	27
102	Noncanonical Alternative Polyadenylation Contributes to Gene Regulation in Response to Hypoxia. <i>Plant Cell</i> , 2017 , 29, 1262-1277	11.6	48
101	Plant biology: An immunity boost combats crop disease. <i>Nature</i> , 2017 , 545, 420-421	50.4	4
100	Global analysis of ribosome-associated noncoding RNAs unveils new modes of translational regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10018-E10027	11.5	100
99	The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. <i>Plant Physiology</i> , 2017 , 175, 1499-1509	6.6	10
98	Transcriptomes of Eight Arabidopsis thaliana Accessions Reveal Core Conserved, Genotype- and Organ-Specific Responses to Flooding Stress. <i>Plant Physiology</i> , 2016 , 172, 668-689	6.6	58
97	Redundant ERF-VII Transcription Factors Bind to an Evolutionarily Conserved cis-Motif to Regulate Hypoxia-Responsive Gene Expression in Arabidopsis. <i>Plant Cell</i> , 2016 , 28, 160-80	11.6	139
96	Flexible Ion Barrier. <i>Cell</i> , 2016 , 164, 345-6	56.2	4

95	Genetic mechanisms of abiotic stress tolerance that translate to crop yield stability. <i>Nature Reviews Genetics</i> , 2015 , 16, 237-51	30.1	547
94	Ribosome profiling: a tool for quantitative evaluation of dynamics in mRNA translation. <i>Methods in Molecular Biology</i> , 2015 , 1284, 139-73	1.4	20
93	Mechanism of cytoplasmic mRNA translation. <i>The Arabidopsis Book</i> , 2015 , 13, e0176	3	118
92	Translating Ribosome Affinity Purification (TRAP) followed by RNA sequencing technology (TRAP-SEQ) for quantitative assessment of plant translomes. <i>Methods in Molecular Biology</i> , 2015 , 1284, 185-207	1.4	48
91	Proteomic LC-MS analysis of Arabidopsis cytosolic ribosomes: Identification of ribosomal protein paralogs and re-annotation of the ribosomal protein genes. <i>Journal of Proteomics</i> , 2015 , 128, 436-49	3.9	33
90	A trehalose-6-phosphate phosphatase enhances anaerobic germination tolerance in rice. <i>Nature Plants</i> , 2015 , 1, 15124	11.5	178
89	Hypoxia and development: Air conditional. <i>Nature Plants</i> , 2015 , 1, 15095	11.5	1
88	Emerging roles of long non-coding RNA in root developmental plasticity and regulation of phosphate homeostasis. <i>Frontiers in Plant Science</i> , 2015 , 6, 400	6.2	28
87	Flood adaptive traits and processes: an overview. <i>New Phytologist</i> , 2015 , 206, 57-73	9.8	363
86	Rapid immunopurification of ribonucleoprotein complexes of plants. <i>Methods in Molecular Biology</i> , 2015 , 1284, 209-19	1.4	4
85	Characterization of distinct root and shoot responses to low-oxygen stress in Arabidopsis with a focus on primary C- and N-metabolism. <i>Plant, Cell and Environment</i> , 2014 , 37, 2366-80	8.4	54
84	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> , 2014 , 166, 455-69	6.6	219
83	Selective mRNA sequestration by OLIGOURIDYLATE-BINDING PROTEIN 1 contributes to translational control during hypoxia in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2373-8	11.5	106
82	Translational dynamics revealed by genome-wide profiling of ribosome footprints in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E203-12	11.5	245
81	A trihelix DNA binding protein counterbalances hypoxia-responsive transcriptional activation in Arabidopsis. <i>PLoS Biology</i> , 2014 , 12, e1001950	9.7	62
80	Profiling of translomes of in vivo-grown pollen tubes reveals genes with roles in micropylar guidance during pollination in Arabidopsis. <i>Plant Cell</i> , 2014 , 26, 602-18	11.6	50
79	Selective mRNA Translation Tailors Low Oxygen Energetics. <i>Plant Cell Monographs</i> , 2014 , 95-115	0.6	5
78	Flooding tolerance: O ₂ sensing and survival strategies. <i>Current Opinion in Plant Biology</i> , 2013 , 16, 647-53	9.9	122

77	Isolation and analysis of mRNAs from specific cell types of plants by ribosome immunopurification. <i>Methods in Molecular Biology</i> , 2013 , 959, 277-302	1.4	15
76	Two <i>Rumex</i> species from contrasting hydrological niches regulate flooding tolerance through distinct mechanisms. <i>Plant Cell</i> , 2013 , 25, 4691-707	11.6	101
75	Comparison of GC-MS and NMR for metabolite profiling of rice subjected to submergence stress. <i>Journal of Proteome Research</i> , 2013 , 12, 898-909	5.6	88
74	Selective recruitment of mRNAs and miRNAs to polyribosomes in response to rhizobia infection in <i>Medicago truncatula</i> . <i>Plant Journal</i> , 2013 , 73, 289-301	6.9	64
73	Cold shock protein α chaperones mRNAs during translation in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2013 , 74, 1016-28	6.9	41
72	Linking genes of unknown function with abiotic stress responses by high-throughput phenotype screening. <i>Physiologia Plantarum</i> , 2013 , 148, 322-33	4.6	66
71	Applying Genomics Tools for Breeding Submergence Tolerance in Rice 2013 , 9-30		35
70	Characteristics and significance of intergenic polyadenylated RNA transcription in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013 , 161, 210-24	6.6	18
69	Transient MPK6 activation in response to oxygen deprivation and reoxygenation is mediated by mitochondria and aids seedling survival in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2012 , 78, 109-22	4.6	96
68	Making sense of low oxygen sensing. <i>Trends in Plant Science</i> , 2012 , 17, 129-38	13.1	365
67	Differential metabolic regulation governed by the rice SUB1A gene during submergence stress and identification of alanylglycine by 1H NMR spectroscopy. <i>Journal of Proteome Research</i> , 2012 , 11, 320-30	5.6	52
66	Dynamic Light Regulation of Translation Status in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2012 , 3, 66	6.2	85
65	Posttranscriptional control of photosynthetic mRNA decay under stress conditions requires 3' and 5' untranslated regions and correlates with differential polysome association in rice. <i>Plant Physiology</i> , 2012 , 159, 1111-24	6.6	54
64	The submergence tolerance gene SUB1A delays leaf senescence under prolonged darkness through hormonal regulation in rice. <i>Plant Physiology</i> , 2012 , 160, 1795-807	6.6	93
63	Waterproofing crops: effective flooding survival strategies. <i>Plant Physiology</i> , 2012 , 160, 1698-709	6.6	243
62	Expression of rice SUB1A and SUB1C transcription factors in <i>Arabidopsis</i> uncovers flowering inhibition as a submergence tolerance mechanism. <i>Plant Journal</i> , 2011 , 67, 434-46	6.9	51
61	Natural variation of submergence tolerance among <i>Arabidopsis thaliana</i> accessions. <i>New Phytologist</i> , 2011 , 190, 299-310	9.8	87
60	Molecular characterization of the submergence response of the <i>Arabidopsis thaliana</i> ecotype Columbia. <i>New Phytologist</i> , 2011 , 190, 457-71	9.8	144

59	Homeostatic response to hypoxia is regulated by the N-end rule pathway in plants. <i>Nature</i> , 2011 , 479, 415-8	50.4	438
58	The submergence tolerance regulator SUB1A mediates crosstalk between submergence and drought tolerance in rice. <i>Plant Cell</i> , 2011 , 23, 412-27	11.6	353
57	Cross-kingdom comparison of transcriptomic adjustments to low-oxygen stress highlights conserved and plant-specific responses. <i>Plant Physiology</i> , 2010 , 152, 1484-500	6.6	248
56	The submergence tolerance regulator Sub1A mediates stress-responsive expression of AP2/ERF transcription factors. <i>Plant Physiology</i> , 2010 , 152, 1674-92	6.6	138
55	The Arabidopsis translome cell-specific mRNA atlas: Mining suberin and cutin lipid monomer biosynthesis genes as an example for data application. <i>Plant Signaling and Behavior</i> , 2010 , 5, 320-4	2.5	20
54	Submergence Tolerant Rice: SUB1 ^h Journey from Landrace to Modern Cultivar. <i>Rice</i> , 2010 , 3, 138-147	5.8	216
53	Life in the balance: a signaling network controlling survival of flooding. <i>Current Opinion in Plant Biology</i> , 2010 , 13, 489-94	9.9	163
52	Profiling translomes of discrete cell populations resolves altered cellular priorities during hypoxia in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18843-8	11.5	442
51	Isolation of plant polysomal mRNA by differential centrifugation and ribosome immunopurification methods. <i>Methods in Molecular Biology</i> , 2009 , 553, 109-26	1.4	95
50	Getting the message across: cytoplasmic ribonucleoprotein complexes. <i>Trends in Plant Science</i> , 2009 , 14, 443-53	13.1	97
49	Evolutionary analysis of the Sub1 gene cluster that confers submergence tolerance to domesticated rice. <i>Annals of Botany</i> , 2009 , 103, 143-50	4.1	59
48	?????????. <i>Nature Digest</i> , 2009 , 6, 28-29	0	
47	Selective mRNA translation coordinates energetic and metabolic adjustments to cellular oxygen deprivation and reoxygenation in Arabidopsis thaliana. <i>Plant Journal</i> , 2008 , 56, 743-55	6.9	268
46	Submergence tolerance conferred by Sub1A is mediated by SLR1 and SLRL1 restriction of gibberellin responses in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 16814-9	11.5	302
45	Ethylene ^h a key regulator of submergence responses in rice. <i>Plant Science</i> , 2008 , 175, 43-51	5.3	104
44	Unraveling the tapestry of networks involving reactive oxygen species in plants. <i>Plant Physiology</i> , 2008 , 147, 978-84	6.6	177
43	Annotating genes of known and unknown function by large-scale coexpression analysis. <i>Plant Physiology</i> , 2008 , 147, 41-57	6.6	137
42	A variable cluster of ethylene response factor-like genes regulates metabolic and developmental acclimation responses to submergence in rice. <i>Plant Cell</i> , 2006 , 18, 2021-34	11.6	489

41	What makes species unique? The contribution of proteins with obscure features. <i>Genome Biology</i> , 2006 , 7, R57	18.3	54
40	Sub1A is an ethylene-response-factor-like gene that confers submergence tolerance to rice. <i>Nature</i> , 2006 , 442, 705-8	50.4	1084
39	Proteomic characterization of evolutionarily conserved and variable proteins of Arabidopsis cytosolic ribosomes. <i>Plant Physiology</i> , 2005 , 137, 848-62	6.6	127
38	Sensing and signalling in response to oxygen deprivation in plants and other organisms. <i>Annals of Botany</i> , 2005 , 96, 507-18	4.1	193
37	Genome cluster database. A sequence family analysis platform for Arabidopsis and rice. <i>Plant Physiology</i> , 2005 , 138, 47-54	6.6	30
36	Immunopurification of polyribosomal complexes of Arabidopsis for global analysis of gene expression. <i>Plant Physiology</i> , 2005 , 138, 624-35	6.6	189
35	Genome-wide analysis of transcript abundance and translation in Arabidopsis seedlings subjected to oxygen deprivation. <i>Annals of Botany</i> , 2005 , 96, 647-60	4.1	238
34	mRNA sequence features that contribute to translational regulation in Arabidopsis. <i>Nucleic Acids Research</i> , 2005 , 33, 955-65	20.1	148
33	Genome-wide Analysis of Transcript Abundance and Translation in Arabidopsis Seedlings Subjected to Oxygen Deprivation. <i>Annals of Botany</i> , 2005 , 96, 1142-1142	4.1	3
32	Differential mRNA translation contributes to gene regulation under non-stress and dehydration stress conditions in Arabidopsis thaliana. <i>Plant Journal</i> , 2004 , 38, 823-39	6.9	254
31	Plant responses to hypoxia--is survival a balancing act?. <i>Trends in Plant Science</i> , 2004 , 9, 449-56	13.1	299
30	Evaluation of Translational Control Mechanisms in Response to Oxygen Deprivation in Maize. <i>Russian Journal of Plant Physiology</i> , 2003 , 50, 774-786	1.6	12
29	Water-deficit-induced translational control in Nicotiana tabacum. <i>Plant, Cell and Environment</i> , 2003 , 26, 221-229	8.4	50
28	Regulated phosphorylation of 40S ribosomal protein S6 in root tips of maize. <i>Plant Physiology</i> , 2003 , 132, 2086-97	6.6	102
27	Gene and enhancer trap transposable elements reveal oxygen deprivation-regulated genes and their complex patterns of expression in Arabidopsis. <i>Annals of Botany</i> , 2003 , 91 Spec No, 129-41	4.1	49
26	Regulation of translational initiation in plants. <i>Current Opinion in Plant Biology</i> , 2002 , 5, 460-5	9.9	142
25	RopGAP4-dependent Rop GTPase rheostat control of Arabidopsis oxygen deprivation tolerance. <i>Science</i> , 2002 , 296, 2026-8	33.3	304
24	Regulated heterogeneity in 12-kDa P-protein phosphorylation and composition of ribosomes in maize (<i>Zea mays</i> L.). <i>Journal of Biological Chemistry</i> , 2001 , 276, 10921-8	5.4	33

23	The Organization of Cytoplasmic Ribosomal Protein Genes in the Arabidopsis Genome. <i>Plant Physiology</i> , 2001 , 127, 398-415	6.6	230
22	Oxygen deprivation stimulates Ca ²⁺ -mediated phosphorylation of mRNA cap-binding protein eIF4E in maize roots. <i>Plant Journal</i> , 1999 , 19, 21-30	6.9	47
21	Selective translation of cytoplasmic mRNAs in plants. <i>Trends in Plant Science</i> , 1999 , 4, 142-148	13.1	123
20	Co-operation between cytosolic and plastidic oxidative pentose phosphate pathways revealed by 6-phosphogluconate dehydrogenase-deficient genotypes of maize. <i>Plant Journal</i> , 1998 , 14, 449-457	6.9	32
19	Transcriptional and post-transcriptional processes regulate gene expression in oxygen-deprived roots of maize. <i>Plant Journal</i> , 1998 , 15, 727-735	6.9	62
18	Molecular and biochemical characterization of cytosolic phosphoglucomutase in maize. Expression during development and in response to oxygen deprivation. <i>Plant Physiology</i> , 1998 , 117, 997-1006	6.6	65
17	Evolutionary analyses of the 12-kDa acidic ribosomal P-proteins reveal a distinct protein of higher plant ribosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 2378-83	11.5	54
16	Post-transcriptional regulation of gene expression in oxygen-deprived roots of maize. <i>Plant Journal</i> , 1995 , 7, 287-295	6.9	75
15	Synonymous codon usage in Zea mays L. nuclear genes is varied by levels of C and G-ending codons. <i>Nucleic Acids Research</i> , 1993 , 21, 5294-300	20.1	80
14	Purification and characterization of cytosolic 6-phosphogluconate dehydrogenase isozymes from maize. <i>Plant Physiology</i> , 1992 , 100, 1580-3	6.6	20
13	Expression and distribution of cytosolic 6-phosphogluconate dehydrogenase isozymes in maize. <i>Biochemical Genetics</i> , 1992 , 30, 233-46	2.4	16
12	Expression and distribution of cytosolic 6-phosphogluconate dehydrogenase isozymes in maize. <i>Biochemical Genetics</i> , 1992 , 30, 233-246	2.4	
11	Hypoxic stress-induced changes in ribosomes of maize seedling roots. <i>Plant Physiology</i> , 1990 , 94, 1237-48	6	109
10	Size distributions of circular molecules in plant mitochondrial DNAs. <i>Current Genetics</i> , 1987 , 12, 49-53	2.9	30
9	Nuclear-mitochondrial interactions in cytoplasmic male-sterile sorghum. <i>Theoretical and Applied Genetics</i> , 1986 , 73, 252-60	6	42
8	Mitochondrial genome rearrangement leads to extension and relocation of the cytochrome c oxidase subunit I gene in sorghum. <i>Cell</i> , 1986 , 47, 567-76	56.2	113
7	Innovation, conservation and repurposing of gene function in plant root cell type development		2
6	Integrative analysis from the epigenome through translation exposes patterns of dominant nuclear regulation during transient stress		1

5	DHH1/DDX6-like RNA helicases maintain ephemeral half-lives of stress-response mRNAs associated with innate immunity and growth inhibition	1
4	Profiling of accessible chromatin regions across multiple plant species and cell types reveals common gene regulatory principles and new control modules	2
3	A stress recovery signaling network for enhanced flooding tolerance in <i>Arabidopsis thaliana</i>	2
2	Ethylene-mediated nitric oxide depletion pre-adapts plants to hypoxia stress	1
1	Nuclear transcriptomes at high resolution using retooled INTACT	1