A prion-like domain in ELF3 functions as a thermosenso

Nature

585, 256-260

DOI: 10.1038/s41586-020-2644-7

#	Article	IF	Citations
1	Heat Makes Cellular Hotspots in Plants. Molecular Plant, 2020, 13, 1536-1538.	3.9	0
2	A Prion-based Thermosensor in Plants. Molecular Cell, 2020, 80, 181-182.	4.5	6
3	Phase Separation as a Molecular Thermosensor. Developmental Cell, 2020, 55, 118-119.	3.1	3
4	Coarse-Grained Model of Entropy-Driven Demixing. Journal of Physical Chemistry B, 2020, 124, 9267-9274.	1.2	3
5	The role of environmental factors on transmission rates of the COVID-19 outbreak: an initial assessment in two spatial scales. Scientific Reports, 2020, 10, 17002.	1.6	108
6	Emerging Roles for Phase Separation in Plants. Developmental Cell, 2020, 55, 69-83.	3.1	84
7	Interplay of social distancing and border restrictions for pandemics via the epidemic renormalisation group framework. Scientific Reports, 2020, 10, 15828.	1.6	25
8	Unraveling the 3D Genome Architecture in Plants: Present and Future. Molecular Plant, 2020, 13, 1676-1693.	3.9	48
9	Second wave COVID-19 pandemics in Europe: a temporal playbook. Scientific Reports, 2020, 10, 15514.	1.6	196
10	Molecular pathways regulating elongation of aerial plant organs: a focus on light, the circadian clock, and temperature. Plant Journal, 2021, 105, 392-420.	2.8	12
11	Hot topic: Thermosensing in plants. Plant, Cell and Environment, 2021, 44, 2018-2033.	2.8	96
12	Natural variation in temperature-modulated immunity uncovers transcription factor bHLH059 as a thermoresponsive regulator in Arabidopsis thaliana. PLoS Genetics, 2021, 17, e1009290.	1.5	23
13	The emerging role of biomolecular condensates in plant immunity. Plant Cell, 2022, 34, 1568-1572.	3.1	10
14	Genetic Elucidation for Response of Flowering Time to Ambient Temperatures in Asian Rice Cultivars. International Journal of Molecular Sciences, 2021, 22, 1024.	1.8	7
16	Plant Long Noncoding RNAs: New Players in the Field of Post-Transcriptional Regulations. Non-coding RNA, 2021, 7, 12.	1.3	18
17	Regulation of flowering time by ambient temperature: repressing the repressors and activating the activators. New Phytologist, 2021, 230, 938-942.	3.5	27
18	Computational resources for identifying and describing proteins driving liquidâ€"liquid phase separation. Briefings in Bioinformatics, 2021, 22, .	3.2	40
19	Post-Translational Mechanisms of Plant Circadian Regulation. Genes, 2021, 12, 325.	1.0	22

#	Article	IF	Citations
20	A critical role of the soybean evening complex in the control of photoperiod sensitivity and adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	75
21	Plant responses to high temperature: a view from pre-mRNA alternative splicing. Plant Molecular Biology, 2021, 105, 575-583.	2.0	15
22	Plant multiscale networks: charting plant connectivity by multi-level analysis and imaging techniques. Science China Life Sciences, 2021, 64, 1392-1422.	2.3	21
23	Struggle for survival: new insights into NELF condensation for adaptive transcriptional reprogramming. Molecular Cell, 2021, 81, 896-898.	4.5	0
24	Genetic loci mediating circadian clock output plasticity and crop productivity under barley domestication. New Phytologist, 2021, 230, 1787-1801.	3.5	14
25	Coordinative regulation of plants growth and development by light and circadian clock. ABIOTECH, 2021, 2, 176-189.	1.8	15
26	Co-Transcriptional RNA Processing in Plants: Exploring from the Perspective of Polyadenylation. International Journal of Molecular Sciences, 2021, 22, 3300.	1.8	11
27	Arabidopsis cryptochrome 1 controls photomorphogenesis through regulation of H2A.Z deposition. Plant Cell, 2021, 33, 1961-1979.	3.1	33
28	Moving beyond disease to function: Physiological roles for polyglutamine-rich sequences in cell decisions. Current Opinion in Cell Biology, 2021, 69, 120-126.	2.6	7
29	Length variation in short tandem repeats affects gene expression in natural populations of <i>Arabidopsis thaliana</i>. Plant Cell, 2021, 33, 2221-2234.	3.1	24
30	Get closer and make hotspots: liquidâ€“liquid phase separation in plants. EMBO Reports, 2021, 22, e51656.	2.0	33
31	Chronoculture, harnessing the circadian clock to improve crop yield and sustainability. Science, 2021, 372, .	6.0	74
32	Mnemons and the memorization of past signaling events. Current Opinion in Cell Biology, 2021, 69, 127-135.	2.6	9
33	Layers of crosstalk between circadian regulation andÂenvironmental signalling in plants. Current Biology, 2021, 31, R399-R413.	1.8	19
34	Influence of Climate Change on Flowering Time. Journal of Plant Biology, 2021, 64, 193-203.	0.9	14
35	Plant thermotropism: an underexplored thermal engagement and avoidance strategy. Journal of Experimental Botany, 2021, , .	2.4	4
36	XBAT31 regulates thermoresponsive hypocotyl growth through mediating degradation of the thermosensor ELF3 in <i>Arabidopsis</i>. Science Advances, 2021, 7, .	4.7	42
37	The membrane-localized protein kinase MAP4K4/TOT3 regulates thermomorphogenesis. Nature Communications, 2021, 12, 2842.	5.8	30

#	Article	IF	Citations
38	Getting to the root of belowground high temperature responses in plants. Journal of Experimental Botany, 2021, , .	2.4	23
39	Regulation of alternative splicing in response to temperature variation in plants. Journal of Experimental Botany, 2021, 72, 6150-6163.	2.4	40
40	Epigenetic Regulation of Temperature Responses â€“ Past Successes and Future Challenges. Journal of Experimental Botany, 2021, , .	2.4	9
41	The chemical compound â€˜Heatinâ€™ stimulates hypocotyl elongation and interferes with the Arabidopsis NIT1â€subfamily of nitrilases. Plant Journal, 2021, 106, 1523-1540.	2.8	7
42	A phase-separated nuclear GBPL circuit controls immunity in plants. Nature, 2021, 594, 424-429.	13.7	79
43	Epigenetic regulation of abiotic stress memory: maintaining the good things while they last. Current Opinion in Plant Biology, 2021, 61, 102007.	3.5	70
44	Spatial regulation of thermomorphogenesis by HY5 and PIF4 in Arabidopsis. Nature Communications, 2021, 12, 3656.	5.8	50
45	The heat is on: how crop growth, development, and yield respond to high temperature. Journal of Experimental Botany, 2021, , .	2.4	21
46	Protein Phase Separation Arising from Intrinsic Disorder: First-Principles to Bespoke Applications. Journal of Physical Chemistry B, 2021, 125, 6740-6759.	1.2	38
47	Warm nights disrupt transcriptome rhythms in field-grown rice panicles. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	24
48	Transcriptome analysis reveals Vernalization is independent of cold acclimation in Arabidopsis. BMC Genomics, 2021, 22, 462.	1.2	15
49	Molecular regulation and genetic control of rice thermal response. Crop Journal, 2021, 9, 497-505.	2.3	18
50	An autoregulatory negative feedback loop controls thermomorphogenesis in Arabidopsis. PLoS Genetics, 2021, 17, e1009595.	1.5	17
51	Temperature regulation of plant hormone signaling during stress and development. Journal of Experimental Botany, 2021, , .	2.4	29
52	On the evolution of plant thermomorphogenesis. Journal of Experimental Botany, 2021, , .	2.4	13
53	Biological Phase Separation and Biomolecular Condensates in Plants. Annual Review of Plant Biology, 2021, 72, 17-46.	8.6	53
54	The E3 ligase XBAT35 mediates thermoresponsive hypocotyl growth by targeting ELF3 for degradation in <i>Arabidopsis</i>. Journal of Integrative Plant Biology, 2021, 63, 1097-1103.	4.1	24
55	Prionâ€like proteins: from computational approaches to proteomeâ€wide analysis. FEBS Open Bio, 2021, 11, 2400-2417.	1.0	17

#	Article	IF	Citations
56	Functional convergence of growth responses to shade and warmth in <i>Arabidopsis</i>. New Phytologist, 2021, 231, 1890-1905.	3.5	15
57	Complex Networks of Prion-Like Proteins Reveal Cross Talk Between Stress and Memory Pathways in Plants. Frontiers in Plant Science, 2021, 12, 707286.	1.7	13
60	Time Will Tell: Intercellular Communication in the Plant Clock. Trends in Plant Science, 2021, 26, 706-719.	4.3	21
61	G-Quadruplex-Induced Liquidâ€"Liquid Phase Separation in Biomimetic Protocells. Journal of the American Chemical Society, 2021, 143, 11036-11043.	6.6	27
62	A prion-like protein regulator of seed germination undergoes hydration-dependent phase separation. Cell, 2021, 184, 4284-4298.e27.	13.5	99
63	Polymerization/depolymerization of actin cooperates with the morphology and stability of cell-sized droplets generated in a polymer solution under a depletion effect. Journal of Chemical Physics, 2021, 155, 075101.	1.2	6
64	Plant Stress Granules: Trends and Beyond. Frontiers in Plant Science, 2021, 12, 722643.	1.7	40
65	Timing to grow: roles of clock in thermomorphogenesis. Trends in Plant Science, 2021, 26, 1248-1257.	4.3	16
66	Out of the Dark and Into the Light: A New View of Phytochrome Photobodies. Frontiers in Plant Science, 2021, 12, 732947.	1.7	21
67	Root plasticity under abiotic stress. Plant Physiology, 2021, 187, 1057-1070.	2.3	132
69	Phase separation in plants: New insights into cellular compartmentalization. Journal of Integrative Plant Biology, 2021, 63, 1835-1855.	4.1	24
70	External and Internal Reshaping of Plant Thermomorphogenesis. Trends in Plant Science, 2021, 26, 810-821.	4.3	10
71	Rice seed storage proteins: Biosynthetic pathways and the effects of environmental factors. Journal of Integrative Plant Biology, 2021, 63, 1999-2019.	4.1	41
72	Phase separation of chromatin and small RNA pathways in plants. Plant Journal, 2021, 108, 1256-1265.	2.8	9
73	EARLY FLOWERING3 sub-nuclear localization responds to changes in ambient temperature. Plant Physiology, 2021, 187, 2352-2355.	2.3	21
74	Phosphoproteomic Analysis of Thermomorphogenic Responses in Arabidopsis. Frontiers in Plant Science, 2021, 12, 753148.	1.7	3
76	Feeling Every Bit of Winter â€" Distributed Temperature Sensitivity in Vernalization. Frontiers in Plant Science, 2021, 12, 628726.	1.7	14
77	The plant response to heat requires phase separation. Nature, 2020, 585, 191-192.	13.7	7

#	Article	IF	Citations
80	Microbiome-Dependent Adaptation of Seaweeds Under Environmental Stresses: A Perspective. Frontiers in Marine Science, 2020, 7, .	1.2	33
81	Plant Responses to Heat Stress: Physiology, Transcription, Noncoding RNAs, and Epigenetics. International Journal of Molecular Sciences, 2021, 22, 117.	1.8	156
83	Abiotic stress responses in plants. Nature Reviews Genetics, 2022, 23, 104-119.	7.7	710
84	Arabidopsis AUTOPHAGY-RELATED3 (ATG3) facilitates the liquidâ€“liquid phase separation of ATG8e to promote autophagy. Science Bulletin, 2022, 67, 350-354.	4.3	11
85	Arabidopsis <i>EARLY FLOWERING 3</i> controls temperature responsiveness of the circadian clock independently of the evening complex. Journal of Experimental Botany, 2022, 73, 1049-1061.	2.4	14
86	A glossary of plant cell structures: Current insights and future questions. Plant Cell, 2022, 34, 10-52.	3.1	27
87	HSP70-3 Interacts with Phospholipase DÎ´ and Participates in Heat Stress Defense. Plant Physiology, 2021, 185, 1148-1165.	2.3	27
88	Intrinsic Disorder in Plant Transcription Factor Systems: Functional Implications. International Journal of Molecular Sciences, 2020, 21, 9755.	1.8	14
89	Mechanisms of temperature-regulated growth and thermotolerance in crop species. Current Opinion in Plant Biology, 2022, 65, 102134.	3.5	33
90	The RNA recognition motifâ€containing protein UBA2c prevents early flowering by promoting transcription of the flowering repressor <i>FLM</i> in Arabidopsis. New Phytologist, 2022, 233, 751-765.	3.5	5
93	Plant transcription factors â€" being in the right place with the right company. Current Opinion in Plant Biology, 2022, 65, 102136.	3.5	63
94	Subcellular Localization of Seed-Expressed LEA_4 Proteins Reveals Liquid-Liquid Phase Separation for LEA9 and for LEA48 Homo- and LEA42-LEA48 Heterodimers. Biomolecules, 2021, 11, 1770.	1.8	13
96	Stimuliâ€Responsive Natural Proteins and Their Applications. ChemBioChem, 2022, 23, .	1.3	8
97	Overexpression of BBX18 Promotes Thermomorphogenesis Through the PRR5-PIF4 Pathway. Frontiers in Plant Science, 2021, 12, 782352.	1.7	9
98	The Epigenetic Mechanisms Underlying Thermomorphogenesis and Heat Stress Responses in Arabidopsis. Plants, 2021, 10, 2439.	1.6	7
99	Seedling morphogenesis: when ethylene meets high ambient temperature. ABIOTECH, 0, , 1.	1.8	1
100	Essential trace metals in plant responses to heat stress. Journal of Experimental Botany, 2022, 73, 1775-1788.	2.4	6
101	EARLY FLOWERING 3 and Photoperiod Sensing in Brachypodium distachyon. Frontiers in Plant Science, 2021, 12, 769194.	1.7	14

#	Article	IF	Citations
103	RNA multimerization as an organizing force for liquidâ€“liquid phase separation. Rna, 2022, 28, 16-26.	1.6	27
104	Epigenetic regulation of thermomorphogenesis and heat stress tolerance. New Phytologist, 2022, 234, 1144-1160.	3.5	54
105	Heat Shock-Induced Accumulation of the Glycogen Synthase Kinase 3-Like Kinase BRASSINOSTEROID INSENSITIVE 2 Promotes Early Flowering but Reduces Thermotolerance in Arabidopsis. Frontiers in Plant Science, 2022, 13, 838062.	1.7	9
106	Circadian clock in plants: Linking timing to fitness. Journal of Integrative Plant Biology, 2022, 64, 792-811.	4.1	26
107	Integration of light and temperature signaling pathways in plants. Journal of Integrative Plant Biology, 2022, 64, 393-411.	4.1	25
108	Biological Parts for Engineering Abiotic Stress Tolerance in Plants. Biodesign Research, 2022, 2022, .	0.8	21
109	A high-throughput method for exploring the parameter space of protein liquid-liquid phase separation. Cell Reports Physical Science, 2022, 3, 100764.	2.8	5
110	Regulation of Chloroplast Development and Function at Adverse Temperatures in Plants. Plant and Cell Physiology, 2022, , .	1.5	6
111	How plants coordinate their development in response to light and temperature signals. Plant Cell, 2022, 34, 955-966.	3.1	37
112	Temperatureâ€induced dynamics of plant carbohydrate metabolism. Physiologia Plantarum, 2022, 174, e13602.	2.6	36
113	Enhancing crop diversity for food security in the face of climate uncertainty. Plant Journal, 2022, 109, 402-414.	2.8	60
114	Signaling Mechanisms by Arabidopsis Cryptochromes. Frontiers in Plant Science, 2022, 13, 844714.	1.7	28
115	Transcriptional regulatory network of plant cold-stress responses. Trends in Plant Science, 2022, 27, 922-935.	4.3	115
116	Cellular localization of Arabidopsis EARLY FLOWERING3 is responsive to light quality. Plant Physiology, 2022, 190, 1024-1036.	2.3	12
119	Temperature Sensing in Plants: On the Dawn of Molecular Thermosensor Research. Plant and Cell Physiology, 2022, 63, 737-743.	1.5	5
120	Evolution of circadian clocks along the green lineage. Plant Physiology, 2022, 190, 924-937.	2.3	15
121	Plant clock modifications for adapting flowering time to local environments. Plant Physiology, 2022, 190, 952-967.	2.3	17
122	Hysteresis in PHYTOCHROME-INTERACTING FACTOR 4 and EARLY-FLOWERING 3 dynamics dominates warm daytime memory in Arabidopsis. Plant Cell, 2022, 34, 2188-2204.	3.1	15

#	Article	IF	Citations
124	Temperature-mediated regulation of flowering time in Arabidopsis thaliana. ABIOTECH, 2022, 3, 78-84.	1.8	6
125	The localization of phototropin to the plasma membrane defines a cold-sensing compartment in <i>Marchantia polymorpha</i>. , 2022, 1, .		5
126	Remembering a warm day: daytime temperature influences nighttime hypocotyl growth in Arabidopsis. Plant Cell, 2022, , .	3.1	0
127	The circadian clock ticks in plant stress responses. Stress Biology, 2022, 2, 1.	1.5	20
128	High Ambient Temperature Regulated the Plant Systemic Response to the Beneficial Endophytic Fungus Serendipita indica. Frontiers in Plant Science, 2022, 13, 844572.	1.7	4
129	PLETHORAâ€WOX5 interaction and subnuclear localization control <i>Arabidopsis</i> root stem cell maintenance. EMBO Reports, 2022, 23, e54105.	2.0	24
130	Essence determines phenomenon: Assaying the material properties of biological condensates. Journal of Biological Chemistry, 2022, 298, 101782.	1.6	29
131	Plant AFC2 kinase desensitizes thermomorphogenesis through modulation of alternative splicing. IScience, 2022, 25, 104051.	1.9	13
132	Phytochrome B Conveys Low Ambient Temperature Cues to the Ethylene-Mediated Leaf Senescence in <i>Arabidopsis</i>. Plant and Cell Physiology, 2022, 63, 326-339.	1.5	8
133	Roles of plant hormones in thermomorphogenesis. Stress Biology, 2021, 1, .	1.5	2
134	Circadian coordination of cellular processes and abiotic stress responses. Current Opinion in Plant Biology, 2021, 64, 102133.	3.5	17
135	SMAX1 potentiates phytochrome B-mediated hypocotyl thermomorphogenesis. Plant Cell, 2022, 34, 2671-2687.	3.1	10
136	Surviving and thriving: How plants perceive and respond to temperature stress. Developmental Cell, 2022, 57, 947-958.	3.1	104
137	The Pomegranate Deciduous Trait Is Genetically Controlled by a PgPolyQ-MADS Gene. Frontiers in Plant Science, 2022, 13, 870207.	1.7	1
138	Thermo-Priming Mediated Cellular Networks for Abiotic Stress Management in Plants. Frontiers in Plant Science, 2022, 13, .	1.7	13
139	Phase Separation: â€œThe Master Keyâ€•to Deciphering the Physiological and Pathological Functions of Cells. Advanced Biology, 2022, , 2200006.	1.4	6
140	Circadian entrainment in Arabidopsis. Plant Physiology, 2022, 190, 981-993.	2.3	6
141	Prunus persica transcription factor PpNAC56 enhances heat resistance in transgenic tomatoes. Plant Physiology and Biochemistry, 2022, 182, 194-201.	2.8	9

#	Article	IF	Citations
142	N⁶-methyladenosineâ€“modified RNA acts as a molecular glue that drives liquidâ€“liquid phase separation in plants. Plant Signaling and Behavior, 2022, 17, .	1.2	7
143	REVEILLE 7 inhibits the expression of the circadian clock gene <i>EARLY FLOWERING 4</i> to fineâ€tune hypocotyl growth in response to warm temperatures. Journal of Integrative Plant Biology, 2022, 64, 1310-1324.	4.1	9
145	Spatially specific mechanisms and functions of the plant circadian clock. Plant Physiology, 2022, 190, 938-951.	2.3	8
147	How do plants feel the heat and survive?. Trends in Biochemical Sciences, 2022, 47, 824-838.	3.7	45
148	Recent advances in understanding thermomorphogenesis signaling. Current Opinion in Plant Biology, 2022, 68, 102231.	3.5	31
150	A genetic module at one locus in rice protects chloroplasts to enhance thermotolerance. Science, 2022, 376, 1293-1300.	6.0	80
151	Phase separation of HRLP regulates flowering time in <i>Arabidopsis</i>. Science Advances, 2022, 8, .	4.7	17
152	Reproductive-Stage Heat Stress in Cereals: Impact, Plant Responses and Strategies for Tolerance Improvement. International Journal of Molecular Sciences, 2022, 23, 6929.	1.8	14
153	The evening complex integrates photoperiod signals to control flowering in rice. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	32
154	Integration of light and temperature sensing by liquid-liquid phase separation of phytochrome B. Molecular Cell, 2022, 82, 3015-3029.e6.	4.5	59
156	A proteostasis network safeguards the chloroplast proteome. Essays in Biochemistry, 2022, 66, 219-228.	2.1	7
157	The intrinsically disordered region from PP2C phosphatases functions as a conserved CO2 sensor. Nature Cell Biology, 2022, 24, 1029-1037.	4.6	20
158	Shoot thermosensors do not fulfil the same function in the root. New Phytologist, 2022, 236, 9-14.	3.5	10
159	Ethanol induces heat tolerance in plants by stimulating unfolded protein response. Plant Molecular Biology, 2022, 110, 131-145.	2.0	6
160	Increasing the resilience of plant immunity to a warming climate. Nature, 2022, 607, 339-344.	13.7	72
161	The intersection between circadian and heat-responsive regulatory networks controls plant responses to increasing temperatures. Biochemical Society Transactions, 2022, 50, 1151-1165.	1.6	3
162	Insight into Genetic Mechanism and CDPK-Based Signalling Network Underlying Balanced Source to Sink Carbon Transfer in Wheat Under Multiple Stresses. Journal of Plant Growth Regulation, 0, , .	2.8	0
163	Wandering between hot and cold: temperature dose-dependent responses. Trends in Plant Science, 2022, 27, 1124-1133.	4.3	8

#	Article	IF	Citations
164	Plants change their clocks to flower at the right time. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	2
166	The adaptive nature of the plant circadian clock in natural environments. Plant Physiology, 2022, 190, 968-980.	2.3	21
167	EARLY FLOWERING 3 represses the nighttime growth response to sucrose in Arabidopsis. Photochemical and Photobiological Sciences, 0, , .	1.6	0
168	Light, chromatin, action: nuclear events regulating light signaling in Arabidopsis. New Phytologist, 2022, 236, 333-349.	3.5	7
169	Transcription factors perform a 2-step search of the nucleus. Genetics, 2022, 222, .	1.2	18
170	Genetic and transcriptome analyses reveal the candidate genes and pathways involved in the inactive shade-avoidance response enabling high-density planting of soybean. Frontiers in Plant Science, 0, 13, .	1.7	2
171	Shedding light on immune suppression at high temperature. Trends in Microbiology, 2022, 30, 918-919.	3.5	4
172	COP1 dynamics integrate conflicting seasonal light and thermal cues in the control of <i>Arabidopsis</i> elongation. Science Advances, 2022, 8, .	4.7	4
174	A competitionâ€attenuation mechanism modulates thermoresponsive growth at warm temperatures in plants. New Phytologist, 2023, 237, 177-191.	3.5	10
175	Burning questions for a warming and changing world: 15 unknowns in plant abiotic stress. Plant Cell, 2023, 35, 67-108.	3.1	48
176	Nuclear dynamics: Formation of bodies and trafficking in plant nuclei. Frontiers in Plant Science, 0, 13, .	1.7	7
177	Physiology of Crop Yield Under Heat Stress. , 2022, , 45-79.		1
178	PIFs- and COP1-HY5-mediated temperature signaling in higher plants. Stress Biology, 2022, 2, .	1.5	4
179	The evening complex promotes maize flowering and adaptation to temperate regions. Plant Cell, 2023, 35, 369-389.	3.1	16
180	Activation tagging identifies WRKY14 as a repressor of plant thermomorphogenesis inÂArabidopsis. Molecular Plant, 2022, 15, 1725-1743.	3.9	11
182	Phytochrome B enhances seed germination tolerance to high temperature by reducing <i>S</i>â€nitrosylation of <scp>HFR1</scp>. EMBO Reports, 2022, 23, .	2.0	9
183	Root osmotic sensing from local perception to systemic responses. Stress Biology, 2022, 2, .	1.5	8
184	Impaired condensate formation is to blame for failed disease resistance in plants. , 0, , .		0

#	Article	IF	Citations
185	Novel and multifaceted regulations of photoperiodic flowering by phytochrome A in soybean. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	28
186	Landscape of biomolecular condensates in heat stress responses. Frontiers in Plant Science, 0, 13, .	1.7	5
187	Nutrient status regulates <scp>MED19a</scp> phase separation for <scp>ORESARA1</scp>â€dependent senescence. New Phytologist, 2022, 236, 1779-1795.	3.5	8
188	A potential EARLY FLOWERING 3 homolog in Chlamydomonas is involved in the red/violet and blue light signaling pathways for the degradation of RHYTHM OF CHLOROPLAST 15. PLoS Genetics, 2022, 18, e1010449.	1.5	2
190	Maintenance of abiotic stress memory in plants: Lessons learned from heat acclimation. Plant Cell, 2023, 35, 187-200.	3.1	20
191	HISTONE DEACETYLASE 9 transduces heat signal in plant cells. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	11
192	Plant biomolecular condensates. , 2023, , 557-565.		0
193	Condensation of SEUSS promotes hyperosmotic stress tolerance in Arabidopsis. Nature Chemical Biology, 2022, 18, 1361-1369.	3.9	28
195	Thermomorphogenesis goes like clockwork: how the circadian clock fineâ€tunes temperature responses through competing transcriptional repressors. New Phytologist, 2023, 237, 9-11.	3.5	1
196	Come together now: Dynamic body-formation of key regulators integrates environmental cues in plant development. Frontiers in Plant Science, 0, 13, .	1.7	1
197	Deep inside the epigenetic memories of stressed plants. Trends in Plant Science, 2023, 28, 142-153.	4.3	25
198	BioSAXS at European Synchrotron Radiation Facility â€" Extremely Brilliant Source: BM29 with an upgraded source, detector, robot, sample environment, data collection and analysis software. Journal of Synchrotron Radiation, 2023, 30, 258-266.	1.0	17
199	An exotic allele of barley <i>EARLY FLOWERING 3</i> contributes to developmental plasticity at elevated temperatures. Journal of Experimental Botany, 2023, 74, 2912-2931.	2.4	9
201	Concentrating and sequestering biomolecules in condensates: impact on plant biology. Journal of Experimental Botany, 2023, 74, 1303-1308.	2.4	5
202	Preparing for an uncertain future: molecular responses of plants facing climate change. Journal of Experimental Botany, 2023, 74, 1297-1302.	2.4	2
203	Regulatory Mechanisms of Heat Stress Response and Thermomorphogenesis in Plants. Plants, 2022, 11, 3410.	1.6	13
204	The hot science in rice research: How rice plants cope with heat stress. Plant, Cell and Environment, 2023, 46, 1087-1103.	2.8	15
205	Light signaling-mediated growth plasticity in Arabidopsis grown under high-temperature conditions. Stress Biology, 2022, 2, .	1.5	3

#	Article	IF	Citations
207	Engineered Living Materials For Sustainability. Chemical Reviews, 2023, 123, 2349-2419.	23.0	34
209	High ambient temperature impacts on flowering time in <i>Brassica napus</i> through both H2A.Zâ€dependent and independent mechanisms. Plant, Cell and Environment, 2023, 46, 1427-1441.	2.8	3
210	PEBP Signaling Network in Tubers and Tuberous Root Crops. Plants, 2023, 12, 264.	1.6	2
211	Diverse flowering responses subjecting to ambient high temperature in soybean under shortâ€day conditions. Plant Biotechnology Journal, 2023, 21, 782-791.	4.1	9
212	Shade avoidance in the context of climate change. Plant Physiology, 2023, 191, 1475-1491.	2.3	9
213	Ultrasensitive Small-Molecule Fluorescent Thermometer Reveals Hot Mitochondria in Surgically Resected Human Tumors. ACS Sensors, 2023, 8, 51-60.	4.0	4
214	Time of Day Analysis over a Field Grown Developmental Time Course in Rice. Plants, 2023, 12, 166.	1.6	1
215	ZTL regulates thermomorphogenesis through TOC1 and PRR5. Plant, Cell and Environment, 2023, 46, 1442-1452.	2.8	4
216	Limited water stress modulates expression of circadian clock genes in Brachypodium distachyon roots. Scientific Reports, 2023, 13, .	1.6	1
217	<scp>HSP90s</scp> are required for hypocotyl elongation during skotomorphogenesis and thermomorphogenesis via the <scp>COP1</scp>â€“<scp>ELF3</scp>â€“<scp>PIF4</scp> pathway in Arabidopsis. New Phytologist, 2023, 239, 1253-1265.	3.5	5
218	Temperature perception by plants. Trends in Plant Science, 2023, 28, 924-940.	4.3	7
220	Engineering synthetic biomolecular condensates. , 2023, 1, 466-480.		21
221	Abiotic Stress in Crop Production. International Journal of Molecular Sciences, 2023, 24, 6603.	1.8	34
222	Molecular regulation of tomato male reproductive development. ABIOTECH, 2023, 4, 72-82.	1.8	3
223	Warm temperature-triggered developmental reprogramming requires VIL1-mediated, genome-wide H3K27me3 accumulation in <i>Arabidopsis</i>. Development (Cambridge), 2023, 150, .	1.2	4
224	Recent progress and perspectives on physiological and molecular mechanisms underlying cold tolerance of tea plants. Frontiers in Plant Science, 0, 14, .	1.7	5
225	An update on the role and potential mechanisms of clock genes regulating spermatogenesis: A systematic review of human and animal experimental studies. Reviews in Endocrine and Metabolic Disorders, 0, , .	2.6	0
227	ILF3 prion-like domain regulates gene expression and fear memory under chronic stress. IScience, 2023, 26, 106229.	1.9	2

#	Article	IF	Citations
228	Editorial: Environmental and molecular control of bud dormancy and bud break in woody perennials: An integrative approach. Frontiers in Plant Science, 0, 14, .	1.7	2
229	A mis-splicing early flowering 3 (elf3) allele of lentil is associated with yield enhancement under terminal heat stress. Journal of Applied Genetics, 2023, 64, 265-273.	1.0	0
230	Temperature response of plants and heat tolerance in Rice: A review. Advances in Agronomy, 2023, , 135-203.	2.4	2
231	The Game of Timing: Circadian Rhythms Intersect with Changing Environments. Annual Review of Plant Biology, 2023, 74, 511-538.	8.6	4
232	Temperature Sensing in Plants. Annual Review of Plant Biology, 2023, 74, 341-366.	8.6	20
233	HOS15 represses flowering by promoting GIGANTEA degradation in response to low temperature in Arabidopsis. Plant Communications, 2023, 4, 100570.	3.6	3
234	The Role of Histone Modifications in Heat Signal Transduction in Plants. Advanced Biology, 0, , 2200323.	1.4	1
235	Chemical control of phase separation in DNA solutions. Chemical Communications, 2023, 59, 3751-3754.	2.2	0
236	Plants use molecular mechanisms mediated by biomolecular condensates to integrate environmental cues with development. Plant Cell, 2023, 35, 3173-3186.	3.1	11
237	Reciprocal regulation of flower induction by <i>ELF3Î±</i> and <i>ELF3Î²</i> generated via alternative promoter usage. Plant Cell, 2023, 35, 2095-2113.	3.1	2
240	Perspectives in Plant Abiotic Stress Signaling. Methods in Molecular Biology, 2023, , 429-444.	0.4	0
241	Interplay of Methodology and Conceptualization in Plant Abiotic Stress Signaling. Methods in Molecular Biology, 2023, , 3-22.	0.4	0
242	Adaptive protein evolution through length variation of short tandem repeats in <i>Arabidopsis</i>. Science Advances, 2023, 9, .	4.7	4
243	A straightforward strategy for reducing variability in flowering time at warm ambient temperatures. Plant Signaling and Behavior, 2023, 18, .	1.2	2
244	Novel exotic alleles of <i>EARLY FLOWERING 3</i> determine plant development in barley. Journal of Experimental Botany, 2023, 74, 3630-3650.	2.4	5
245	The role of ethylene in plant temperature stress response. Trends in Plant Science, 2023, 28, 808-824.	4.3	20
246	Phase separation of the nuclear pore complex facilitates selective nuclear transport to regulate plant defense against pathogen and pest invasion. Molecular Plant, 2023, 16, 1016-1030.	3.9	4
247	Auxinâ€dependent regulation of cell division rates governs root thermomorphogenesis. EMBO Journal, 2023, 42, .	3.5	9

#	Article	IF	Citations
248	Thermomorphogenesis: Opportunities and challenges in posttranscriptional regulation. Journal of Experimental Botany, 0, , .	2.4	0
269	Flower Development in Arabidopsis. Methods in Molecular Biology, 2023, , 3-38.	0.4	1
271	Exploring Endophytes for In Vitro Synthesis of Bioactive Compounds in Medicinal and Aromatic Plants. Food Bioactive Ingredients, 2023, , 99-118.	0.3	0
276	In planta expression of human polyQ-expanded huntingtin fragment reveals mechanisms to prevent disease-related protein aggregation. Nature Aging, 2023, 3, 1345-1357.	5.3	1
295	The molecular basis for cellular function of intrinsically disordered protein regions. Nature Reviews Molecular Cell Biology, 2024, 25, 187-211.	16.1	25
310	Liquid-liquid phase separation as a major mechanism of plant abiotic stress sensing and responses. Stress Biology, 2023, 3, .	1.5	0
317	Plants and global warming: challenges and strategies for a warming world. Plant Cell Reports, 2024, 43, .	2.8	1