Dirk K Hincha

List of Publications by Year
in descending order

146 papers	11,285 citations	24978 57 h-index	32761 100 g-index
174 all docs	174 docs citations	174 times ranked	10806 citing authors

#	Article	IF	Citations
1	Cell wall modification by the xyloglucan endotransglucosylase/hydrolase <scp>XTH19</scp> influences freezing tolerance after cold and subâ€zero acclimation. Plant, Cell and Environment, 2021, 44, 915-930.	2.8	43
2	Natural Variation among Arabidopsis Accessions in the Regulation of Flavonoid Metabolism and Stress Gene Expression by Combined UV Radiation and Cold. Plant and Cell Physiology, 2021, 62, 502-514.	1.5	14
3	Unravelling Differences in Candidate Genes for Drought Tolerance in Potato (Solanum tuberosum L.) by Use of New Functional Microsatellite Markers. Genes, 2021, 12, 494.	1.0	11
4	Stabilization of Dry Sucrose Glasses by Four LEA_4 Proteins from Arabidopsis thaliana. Biomolecules, 2021, 11, 615.	1.8	8
5	Genome-Wide Approach to Identify Quantitative Trait Loci for Drought Tolerance in Tetraploid Potato (Solanum tuberosum L.). International Journal of Molecular Sciences, 2021, 22, 6123.	1.8	9
6	Characterization of the Heat-Stable Proteome during Seed Germination in Arabidopsis with Special Focus on LEA Proteins. International Journal of Molecular Sciences, 2021, 22, 8172.	1.8	12
7	Can Metabolite- and Transcript-Based Selection for Drought Tolerance in Solanum tuberosum Replace Selection on Yield in Arid Environments?. Frontiers in Plant Science, 2020, 11, 1071.	1.7	8
8	Utilizing PacBio Iso-Seq for Novel Transcript and Gene Discovery of Abiotic Stress Responses in Oryza sativa L.. International Journal of Molecular Sciences, 2020, 21, 8148.	1.8	30
9	Season Affects Yield and Metabolic Profiles of Rice (Oryza sativa) under High Night Temperature Stress in the Field. International Journal of Molecular Sciences, 2020, 21, 3187.	1.8	21
10	Characterisation of the ERF102 to ERF105 genes of Arabidopsis thaliana and their role in the response to cold stress. Plant Molecular Biology, 2020, 103, 303-320.	2.0	41
11	Evaluation of Seven Different RNA-Seq Alignment Tools Based on Experimental Data from the Model Plant Arabidopsis thaliana. International Journal of Molecular Sciences, 2020, 21, 1720.	1.8	29
12	Transcriptional and Post-Transcriptional Regulation and Transcriptional Memory of Chromatin Regulators in Response to Low Temperature. Frontiers in Plant Science, 2020, 11, 39.	1.7	26
13	Repair of sub-lethal freezing damage in leaves of Arabidopsis thaliana. BMC Plant Biology, 2020, 20, 35.	1.6	8
14	Similar Yet Differentâ€"Structural and Functional Diversity among Arabidopsis thaliana LEA_4 Proteins. International Journal of Molecular Sciences, 2020, 21, 2794.	1.8	12
15	Introduction: Plant Cold Acclimation and Winter Survival. Methods in Molecular Biology, 2020, 2156, 1-7.	0.4	18
16	Analysis of Changes in Plant Cell Wall and Structure During Cold Acclimation. Methods in Molecular Biology, 2020, 2156, 255-268.	0.4	4
17	Measuring Freezing Tolerance of Leaves and Rosettes: Electrolyte Leakage and Chlorophyll Fluorescence Assays. Methods in Molecular Biology, 2020, 2156, 9-21.	0.4	9
18	Molecular signatures associated with increased freezing tolerance due to low temperature memory in <i>Arabidopsis</i>. Plant, Cell and Environment, 2019, 42, 854-873.	2.8	89

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19	Metabolic responses of rice source and sink organs during recovery from combined drought and heat stress in the field. GigaScience, 2019, 8, .	3.3	14
20	Conformational selection of the intrinsically disordered plant stress protein COR15A in response to solution osmolarity â€" an X-ray and light scattering study. Physical Chemistry Chemical Physics, 2019, 21, 18727-18740.	1.3	10
21	Deacclimation after cold acclimationâ€"a crucial, but widely neglected part of plant winter survival. Journal of Experimental Botany, 2019, 70, 4595-4604.	2.4	73
22	Metabolic responses of rice cultivars with different tolerance to combined drought and heat stress under field conditions. GigaScience, 2019, 8, .	3.3	52
23	Transcriptome analysis reveals potential roles of a barley ASR gene that confers stress tolerance in transgenic rice. Journal of Plant Physiology, 2019, 238, 29-39.	1.6	8
24	Both cold and sub-zero acclimation induce cell wall modification and changes in the extracellular proteome in Arabidopsis thaliana. Scientific Reports, 2019, 9, 2289.	1.6	51
25	Structural properties and enzyme stabilization function of the intrinsically disordered LEA_4 protein TdLEA3 from wheat. Scientific Reports, 2019, 9, 3720.	1.6	25
26	Induced, Imprinted, and Primed Responses to Changing Environments: Does Metabolism Store and Process Information?. Frontiers in Plant Science, 2019, 10, 106.	1.7	63
27	Plant Temperature Acclimation and Growth Rely on Cytosolic Ribosome Biogenesis Factor Homologs. Plant Physiology, 2018, 176, 2251-2276.	2.3	39
28	Molecular mechanisms of combined heat and drought stress resilience in cereals. Current Opinion in Plant Biology, 2018, 45, 212-217.	3.5	68
29	Metabolite and transcript markers for the prediction of potato drought tolerance. Plant Biotechnology Journal, 2018, 16, 939-950.	4.1	68
30	Natural Variation in Freezing Tolerance and Cold Acclimation Response in Arabidopsis thaliana and Related Species. Advances in Experimental Medicine and Biology, 2018, 1081, 81-98.	0.8	16
31	Combined drought and heat stress impact during flowering and grain filling in contrasting rice cultivars grown under field conditions. Field Crops Research, 2018, 229, 66-77.	2.3	61
32	Folding and Lipid Composition Determine Membrane Interaction of the Disordered Protein COR15A. Biophysical Journal, 2018, 115, 968-980.	0.2	21
33	Target of Rapamycin Inhibition in <i>Chlamydomonas reinhardtii</i> Triggers de Novo Amino Acid Synthesis by Enhancing Nitrogen Assimilation. Plant Cell, 2018, 30, 2240.1-2254.	3.1	44
34	Ecotype-Dependent Response of Bacterial Communities Associated with <i>Arabidopsis</i> to Cold Acclimation. Phytobiomes Journal, 2018, 2, 3-13.	1.4	8
35	Folding of intrinsically disordered plant LEA proteins is driven by glycerolâ€induced crowding and the presence of membranes. FEBS Journal, 2017, 284, 919-936.	2.2	69
36	Impact of seasonal warming on overwintering and spring phenology of blackcurrant. Environmental and Experimental Botany, 2017, 140, 96-109.	2.0	21

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37	Intrinsically Disordered Stress Protein COR15A Resides at the Membrane Surface during Dehydration. Biophysical Journal, 2017, 113, 572-579.	0.2	51
38	Integrated analysis of rice transcriptomic and metabolomic responses to elevated night temperatures identifies sensitivityâ€•and toleranceâ€•related profiles. Plant, Cell and Environment, 2017, 40, 121-137.	2.8	54
39	<i>ERF105</i> is a transcription factor gene of <i>Arabidopsis thaliana</i> required for freezing tolerance and cold acclimation. Plant, Cell and Environment, 2017, 40, 108-120.	2.8	102
40	Rapid transcriptional and metabolic regulation of the deacclimation process in cold acclimated Arabidopsis thaliana. BMC Genomics, 2017, 18, 731.	1.2	68
41	Rootstock Sub-Optimal Temperature Tolerance Determines Transcriptomic Responses after Long-Term Root Cooling in Rootstocks and Scions of Grafted Tomato Plants. Frontiers in Plant Science, 2017, 8, 911.	1.7	32
42	Natural Variation of Cold Deacclimation Correlates with Variation of Cold-Acclimation of the Plastid Antioxidant System in Arabidopsis thaliana Accessions. Frontiers in Plant Science, 2016, 7, 305.	1.7	51
43	Priming and memory of stress responses in organisms lacking a nervous system. Biological Reviews, 2016, 91, 1118-1133.	4.7	388
44	Molecular dynamics simulations and CD spectroscopy reveal hydration-induced unfolding of the intrinsically disordered LEA proteins COR15A and COR15B from Arabidopsis thaliana. Physical Chemistry Chemical Physics, 2016, 18, 25806-25816.	1.3	21
45	Effects of flavonol glycosides on liposome stability during freezing and drying. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 3050-3060.	1.4	25
46	The drought response of potato reference cultivars with contrasting tolerance. Plant, Cell and Environment, 2016, 39, 2370-2389.	2.8	66
47	Flavonoids are determinants of freezing tolerance and cold acclimation in Arabidopsis thaliana. Scientific Reports, 2016, 6, 34027.	1.6	209
48	Salt stress responses in a geographically diverse collection of Eutrema/Thellungiella spp. accessions. Functional Plant Biology, 2016, 43, 590.	1.1	17
49	Natural variation in flavonol and anthocyanin metabolism during cold acclimation in <scp><i>A</i></scp><i>rabidopsis thaliana</i> accessions. Plant, Cell and Environment, 2015, 38, 1658-1672.	2.8	126
50	Time-dependent deacclimation after cold acclimation in Arabidopsis thaliana accessions. Scientific Reports, 2015, 5, 12199.	1.6	69
51	The intrinsically disordered protein LEA7 from Arabidopsis thaliana protects the isolated enzyme lactate dehydrogenase and enzymes in a soluble leaf proteome during freezing and drying. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1517-1525.	1.1	50
52	Metabolic and transcriptomic signatures of rice floral organs reveal sugar starvation as a factor in reproductive failure under heat and drought stress. Plant, Cell and Environment, 2015, 38, 2171-2192.	2.8	164
53	Assessment of drought tolerance and its potential yield penalty in potato. Functional Plant Biology, 2015, 42, 655.	1.1	26
54	Substantial reprogramming of the Eutrema salsugineum (Thellungiella salsuginea) transcriptome in response to UV and silver nitrate challenge. BMC Plant Biology, 2015, 15, 137.	1.6	18

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55	High night temperature strongly impacts TCA cycle, amino acid and polyamine biosynthetic pathways in rice in a sensitivity-dependent manner. Journal of Experimental Botany, 2015, 66, 6385-6397.	2.4	86
56	Global changes in gene expression, assayed by microarray hybridization and quantitative RT-PCR, during acclimation of three Arabidopsis thaliana accessions to sub-zero temperatures after cold acclimation. Plant Molecular Biology, 2015, 87, 1-15.	2.0	53
57	A mechanistic model of COR15 protein function in plant freezing tolerance: integration of structural and functional characteristics. Plant Signaling and Behavior, 2014, 9, e977722.	1.2	36
58	Changes in free polyamine levels, expression of polyamine biosynthesis genes, and performance of rice cultivars under salt stress: a comparison with responses to drought. Frontiers in Plant Science, 2014, 5, 182.	1.7	68
59	Disordered Cold Regulated15 Proteins Protect Chloroplast Membranes during Freezing through Binding and Folding, But Do Not Stabilize Chloroplast Enzymes in Vivo. Plant Physiology, 2014, 166, 190-201.	2.3	108
60	Differential physiological responses of different rice (Oryza sativa) cultivars to elevated night temperature during vegetative growth. Functional Plant Biology, 2014, 41, 437.	1.1	45
61	Functional characterization of selected LEA proteins from Arabidopsis thaliana in yeast and in vitro. Planta, 2014, 240, 325-336.	1.6	57
62	Introduction: Plant Cold Acclimation and Freezing Tolerance. Methods in Molecular Biology, 2014, 1166, 1-6.	0.4	23
63	Measuring Freezing Tolerance: Electrolyte Leakage and Chlorophyll Fluorescence Assays. Methods in Molecular Biology, 2014, 1166, 15-24.	0.4	71
64	Interactions of the amphiphiles arbutin and tryptophan with phosphatidylcholine and phosphatidylethanolamine bilayers in the dry state. BMC Biophysics, 2013, 6, 9.	4.4	7
65	The Function and Evolution of Closely Related COR/LEA (Cold-Regulated/Late Embryogenesis Abundant) Proteins in Arabidopsis thaliana. , 2013, , 89-105.		5
66	Transcriptome sequencing and microarray design for functional genomics in the extremophile Arabidopsis relative Thellungiella salsuginea (Eutrema salsugineum). BMC Genomics, 2013, 14, 793.	1.2	37
67	Mapping quantitative trait loci for freezing tolerance in a recombinant inbred line population of <i><scp>A</scp>rabidopsis thaliana</i> accessions Tenela and <scp>C24</scp> reveals <scp>REVEILLE1</scp> as negative regulator of cold acclimation. Plant, Cell and Environment, 2013, 36, 1256-1267.	2.8	48
68	Dissecting Rice Polyamine Metabolism under Controlled Long-Term Drought Stress. PLoS ONE, 2013, 8, e60325.	1.1	120
69	Identification of Drought Tolerance Markers in a Diverse Population of Rice Cultivars by Expression and Metabolite Profiling. PLoS ONE, 2013, 8, e63637.	1.1	119
70	Comparison of freezing tolerance, compatible solutes and polyamines in geographically diverse collections of Thellungiella sp. and Arabidopsis thaliana accessions. BMC Plant Biology, 2012, 12, 131.	1.6	76
71	Conducting Molecular Biomarker Discovery Studies in Plants. Methods in Molecular Biology, 2012, 918, 127-150.	0.4	6
72	Differential remodeling of the lipidome during cold acclimation in natural accessions of <i>Arabidopsis thaliana</i>. Plant Journal, 2012, 72, 972-982.	2.8	171

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73	Influence of drying on the secondary structure of intrinsically disordered and globular proteins. Biochemical and Biophysical Research Communications, 2012, 417, 122-128.	1.0	39
74	LEA proteins: IDPs with versatile functions in cellular dehydration tolerance. Biochemical Society Transactions, 2012, 40, 1000-1003.	1.6	158
75	Clinal variation in the nonâ€acclimated and coldâ€acclimated freezing tolerance of <i>Arabidopsis thaliana</i> accessions. Plant, Cell and Environment, 2012, 35, 1860-1878.	2.8	145
76	Identification of two hydrophilins that contribute to the desiccation and freezing tolerance of yeast (Saccharomyces cerevisiae) cells. Cryobiology, 2011, 62, 188-193.	0.3	24
77	The intrinsically disordered late embryogenesis abundant protein LEA18 from Arabidopsis thaliana modulates membrane stability through binding and folding. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 446-453.	1.4	48
78	Structural transitions in the intrinsically disordered plant dehydration stress protein LEA7 upon drying are modulated by the presence of membranes. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1879-1887.	1.4	61
79	Natural variation in the freezing tolerance of Arabidopsis thaliana: Effects of RNAi-induced CBF depletion and QTL localisation vary among accessions. Plant Science, 2011, 180, 12-23.	1.7	31
80	Thermotropic phase behavior and headgroup interactions of the nonbilayer lipids phosphatidylethanolamine and monogalactosyldiacylglycerol in the dry state. BMC Biophysics, 2011, 4, 11.	4.4	23
81	The reduction of seed-specific dehydrins reduces seed longevity in <i>Arabidopsis thaliana</i>. Seed Science Research, 2011, 21, 165-173.	0.8	89
82	Predicting Arabidopsis Freezing Tolerance and Heterosis in Freezing Tolerance from Metabolite Composition. Molecular Plant, 2010, 3, 224-235.	3.9	120
83	LEA Proteins: Versatility of Form and Function. Topics in Current Genetics, 2010, , 91-108.	0.7	75
84	Interaction of two intrinsically disordered plant stress proteins (COR15A and COR15B) with lipid membranes in the dry state. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1812-1820.	1.4	95
85	A mitochondrial late embryogenesis abundant protein stabilizes model membranes in the dry state. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1926-1933.	1.4	146
86	Interaction with Diurnal and Circadian Regulation Results in Dynamic Metabolic and Transcriptional Changes during Cold Acclimation in Arabidopsis. PLoS ONE, 2010, 5, e14101.	1.1	146
87	AtMyb41 Regulates Transcriptional and Metabolic Responses to Osmotic Stress in Arabidopsis Â. Plant Physiology, 2009, 149, 1761-1772.	2.3	176
88	Expression profiling of rice cultivars differing in their tolerance to long-term drought stress. Plant Molecular Biology, 2009, 69, 133-153.	2.0	207
89	Fructan and its relationship to abiotic stress tolerance in plants. Cellular and Molecular Life Sciences, 2009, 66, 2007-2023.	2.4	361
90	Metabolomics of temperature stress. Physiologia Plantarum, 2008, 132, 220-235.	2.6	439

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91	Protection of liposomes against fusion during drying by oligosaccharides is not predicted by the calorimetric glass transition temperatures of the dry sugars. European Biophysics Journal, 2008, 37, 503-508.	1.2	14
92	Heterosis in the freezing tolerance, and sugar and flavonoid contents of crosses between <i>Arabidopsis thaliana</i> accessions of widely varying freezing tolerance. Plant, Cell and Environment, 2008, 31, 813-827.	2.8	142
93	LEA (Late Embryogenesis Abundant) proteins and their encoding genes in Arabidopsis thaliana. BMC Genomics, 2008, 9, 118.	1.2	818
94	Natural variation in CBF gene sequence, gene expression and freezing tolerance in the Versailles core collection of Arabidopsis thaliana. BMC Plant Biology, 2008, 8, 105.	1.6	84
95	Effects of Î±â€tocopherol (vitamin E) on the stability and lipid dynamics of model membranes mimicking the lipid composition of plant chloroplast membranes. FEBS Letters, 2008, 582, 3687-3692.	1.3	48
96	Chlorophyll fluorescence imaging accurately quantifies freezing damage and cold acclimation responses in Arabidopsis leaves. Plant Methods, 2008, 4, 12.	1.9	125
97	Natural genetic variation in acclimation capacity at sub-zero temperatures after cold acclimation at 4 Â°C in different Arabidopsis thaliana accessions. Cryobiology, 2008, 57, 104-112.	0.3	41
98	Interactions between the circadian clock and cold-response in Arabidopsis. Plant Signaling and Behavior, 2008, 3, 593-594.	1.2	29
99	Disruption of the Arabidopsis Circadian Clock Is Responsible for Extensive Variation in the Cold-Responsive Transcriptome Â Â Â. Plant Physiology, 2008, 147, 263-279.	2.3	234
100	Functional Divergence of Former Alleles in an Ancient Asexual Invertebrate. Science, 2007, 318, 268-271.	6.0	129
101	Fructans from oat and rye: Composition and effects on membrane stability during drying. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 1611-1619.	1.4	83
102	Effects of Cholesterol on Dry Bilayers: Interactions between Phosphatidylcholine Unsaturation and Glycolipid or Free Sugar. Biophysical Journal, 2007, 93, 1204-1214.	0.2	51
103	Low Amounts of Sucrose Are Sufficient to Depress the Phase Transition Temperature of Dry Phosphatidylcholine, but Not for Lyoprotection of Liposomes. Biophysical Journal, 2006, 90, 2831-2842.	0.2	108
104	Chapter 6 Effects of Sugars on the Stability and Structure of Lipid Membranes During Drying. Behavior Research Methods, 2006, 3, 189-217.	2.3	37
105	Monosaccharide composition, chain length and linkage type influence the interactions of oligosaccharides with dry phosphatidylcholine membranes. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 680-691.	1.4	49
106	High concentrations of the compatible solute glycinebetaine destabilize model membranes under stress conditions. Cryobiology, 2006, 53, 58-68.	0.3	17
107	Natural Genetic Variation of Freezing Tolerance in Arabidopsis. Plant Physiology, 2006, 142, 98-112.	2.3	407
108	A quality-controlled microarray method for gene expression profiling. Analytical Biochemistry, 2005, 346, 217-224.	1.1	13

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109	Effects of the sugar headgroup of a glycoglycerolipid on the phase behavior of phospholipid model membranes in the dry state. Glycobiology, 2005, 15, 1150-1155.	1.3	23
110	A Global Survey of Gene Regulation during Cold Acclimation in Arabidopsis thaliana. PLoS Genetics, 2005, 1, e26.	1.5	409
111	Heterosis in the freezing tolerance of crosses between twoArabidopsis thalianaaccessions (Columbia-0 and C24) that show differences in non-acclimated and acclimated freezing tolerance. Plant Journal, 2004, 38, 790-799.	2.8	145
112	Specific interactions of tryptophan with phosphatidylcholine and digalactosyldiacylglycerol in pure and mixed bilayers in the dry and hydrated state. Chemistry and Physics of Lipids, 2004, 132, 171-184.	1.5	19
113	Stabilization of model membranes during drying by compatible solutes involved in the stress tolerance of plants and microorganisms. Biochemical Journal, 2004, 383, 277-283.	1.7	174
114	The role of raffinose in the cold acclimation response ofArabidopsis thaliana. FEBS Letters, 2004, 576, 169-173.	1.3	177
115	Cryoprotectin protects thylakoids during a freezeâ€“thaw cycle by a mechanism involving stable membrane binding. Cryobiology, 2003, 47, 191-203.	0.3	29
116	The effect of hydrophobic analogues of the type I winter flounder antifreeze protein on lipid bilayers. FEBS Letters, 2003, 551, 13-19.	1.3	12
117	Effects of calcium-induced aggregation on the physical stability of liposomes containing plant glycolipids. Biochimica Et Biophysica Acta - Biomembranes, 2003, 1611, 180-186.	1.4	44
118	The preservation of liposomes by raffinose family oligosaccharides during drying is mediated by effects on fusion and lipid phase transitions. Biochimica Et Biophysica Acta - Biomembranes, 2003, 1612, 172-177.	1.4	159
119	Intermolecular Interactions in Dry and Rehydrated Pure and Mixed Bilayers of Phosphatidylcholine and Digalactosyldiacylglycerol: A Fourier Transform Infrared Spectroscopy Study. Biophysical Journal, 2003, 85, 1682-1690.	0.2	100
120	The Effect of Fructan on the Phospholipid Organization in the Dry State. Biophysical Journal, 2003, 85, 3058-3065.	0.2	60
121	Specific effects of fructo- and gluco-oligosaccharides in the preservation of liposomes during drying. Glycobiology, 2002, 12, 103-110.	1.3	182
122	Cryoprotectin: a plant lipidâ€“transfer protein homologue that stabilizes membranes during freezing. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 909-916.	1.8	47
123	Differential destabilization of membranes by tryptophan and phenylalanine during freezing: the roles of lipid composition and membrane fusion. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1561, 109-118.	1.4	30
124	A Mechanism for Stabilization of Membranes at Low Temperatures by an Antifreeze Protein. Biophysical Journal, 2002, 82, 874-881.	0.2	102
125	Looking beyond sugars: the role of amphiphilic solutes in preventing adventitious reactions in anhydrobiotes at low water contents. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 131, 515-525.	0.8	69
126	Non-Disaccharide-Based Mechanisms of Protection during Drying. Cryobiology, 2001, 43, 151-167.	0.3	99

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127	Antifreeze proteins differentially affect model membranes during freezing. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1511, 255-263.	1.4	40
128	The effect of arbutin on membrane integrity during drying is mediated by stabilization of the lamellar phase in the presence of nonbilayer-forming lipids. Chemistry and Physics of Lipids, 2001, 111, 37-57.	1.5	48
129	Cabbage Cryoprotectin Is a Member of the Nonspecific Plant Lipid Transfer Protein Gene Family. Plant Physiology, 2001, 125, 835-846.	2.3	44
130	Plant fructans stabilize phosphatidylcholine liposomes during freeze-drying. FEBS Journal, 2000, 267, 535-540.	0.2	120
131	Lipid Composition Determines the Effects of Arbutin on the Stability of Membranes. Biophysical Journal, 1999, 77, 2024-2034.	0.2	71
132	The effects of chloroplast lipids on the stability of liposomes during freezing and drying. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1368, 150-160.	1.4	54
133	Interactions of arbutin with dry and hydrated bilayers. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1370, 87-97.	1.4	50
134	Release of Two Peripheral Proteins from Chloroplast Thylakoid Membranes in the Presence of a Hofmeister Series of Chaotropic Anions. Archives of Biochemistry and Biophysics, 1998, 358, 385-390.	1.4	17
135	Trehalose Increases Freezeâ€"Thaw Damage in Liposomes Containing Chloroplast Glycolipids. Cryobiology, 1998, 36, 245-249.	0.3	15
136	A Cryoprotective Lectin Reduces the Solute Permeability and Lipid Fluidity of Thylakoid Membranes. Cryobiology, 1997, 34, 193-199.	0.3	15
137	The concentration of cryoprotective lectins in mistletoe (Viscum album L.) leaves is correlated with leaf frost hardiness. Planta, 1997, 203, 140-144.	1.6	17
138	The lytic activity of the bee venom peptide melittin is strongly reduced by the presence of negatively charged phospholipids or chloroplast galactolipids in the membranes of phosphatidylcholine large unilamellar vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1284, 162-170.	1.4	46
139	Chapter 4 Freeze-thaw damage to thylakoid membranes: Specific protection by sugars and proteins. Advances in Low-temperature Biology, 1996, , 141-183.	1.0	23
140	Rapid induction of frost hardiness in spinach seedlings under salt stress. Planta, 1994, 194, 274-278.	1.6	25
141	The solute permeability of thylakoid membranes is reduced by low concentrations of trehalose as a co-solute. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1189, 38-44.	1.4	34
142	Cryoprotective Leaf Proteins: Assay Methods and Heat Stability. Journal of Plant Physiology, 1992, 140, 236-240.	1.6	27
143	Time- and temperature-dependent solute loading of isolated thylakoids during freezing. Cryobiology, 1992, 29, 607-615.	0.3	16
144	Membrane Rupture Is the Common Cause of Damage to Chloroplast Membranes in Leaves Injured by Freezing or Excessive Wilting. Plant Physiology, 1987, 83, 251-253.	2.3	77

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145	Sucrose influx and mechanical damage by osmotic stress to thylakoid membranes during an in vitro freeze-thaw cycle. Biochimica Et Biophysica Acta - Biomembranes, 1986, 861, 152-158.	1.4	15
146	Antibodies against individual thylakoid membrane proteins as molecular probes to study chemical and mechanical freezing damage in vitro. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 809, 337-344.	0.5	37