Christine Finnie

List of Publications by Citations

75 papers	2,621 citations	32 h-index	50 g-index
77 ext. papers	2,867 ext. citations	4.6 avg, IF	4.72 L-index

#	Paper	IF	Citations
75	Proteome analysis of grain filling and seed maturation in barley. *Plant Physiology*, **2002**, 129, 1308-19	6.6	210
74	Proteome analysis of barley seeds: Identification of major proteins from two-dimensional gels (pI 4-7). *Proteomics*, **2004**, 4, 2437-47	4.8	115
73	Cy5 maleimide labelling for sensitive detection of free thiols in native protein extracts: identification of seed proteins targeted by barley thioredoxin h isoforms. *Biochemical Journal*, **2004**, 378, 497-507	3.8	107
72	14-3-3 proteins: eukaryotic regulatory proteins with many functions. *Plant Molecular Biology*, **1999**, 40, 545-54	4.6	106
71	Comparative proteome analysis of metabolic proteins from seeds of durum wheat (cv. Svevo) subjected to heat stress. *Proteomics*, **2010**, 10, 2359-68	4.8	100
70	Proteins exported via the PrsD-PrsE type I secretion system and the acidic exopolysaccharide are involved in biofilm formation by Rhizobium leguminosarum. *Journal of Bacteriology*, **2006**, 188, 4474-86	3.5	100
69	Effects of beta-1,3-glucan from Septoria tritici on structural defence responses in wheat. *Journal of Experimental Botany*, **2009**, 60, 4287-300	7	94
68	Structural basis for target protein recognition by the protein disulfide reductase thioredoxin. *Structure*, **2006**, 14, 1701-10	5.2	87
67	Barley seed proteomics from spots to structures. *Journal of Proteomics*, **2009**, 72, 315-24	3.9	85
66	Implications of high-temperature events and water deficits on protein profiles in wheat (Triticum aestivum L. cv. Vinjett) grain. *Proteomics*, **2011**, 11, 1684-95	4.8	83
65	The Rhizobium leguminosarum prsDE genes are required for secretion of several proteins, some of which influence nodulation, symbiotic nitrogen fixation and exopolysaccharide modification. *Molecular Microbiology*, **1997**, 25, 135-46	4.1	74
64	Secretomics identifies Fusarium graminearum proteins involved in the interaction with barley and wheat. *Molecular Plant Pathology*, **2012**, 13, 445-53	5.7	68
63	Spatio-temporal changes in germination and radical elongation of barley seeds tracked by proteome analysis of dissected embryo, aleurone layer, and endosperm tissues. *Proteomics*, **2007**, 7, 4528-40	4.8	65
62	Molecular speciation and tissue compartmentation of zinc in durum wheat grains with contrasting nutritional status. *New Phytologist*, **2016**, 211, 1255-65	9.8	63
61	The NADPH-dependent thioredoxin reductase/thioredoxin system in germinating barley seeds: gene expression, protein profiles, and interactions between isoforms of thioredoxin h and thioredoxin reductase. *Plant Physiology*, **2008**, 146, 789-99	6.6	60
60	Responses of barley root and shoot proteomes to long-term nitrogen deficiency, short-term nitrogen starvation and ammonium. *Plant, Cell and Environment*, **2011**, 34, 2024-37	8.4	58
59	Feasibility study of a tissue-specific approach to barley proteome analysis: aleurone layer, endosperm, embryo and single seeds. *Journal of Cereal Science*, **2003**, 38, 217-227	3.8	58

58	Identification of thioredoxin h-reducible disulphides in proteomes by differential labelling of cysteines: insight into recognition and regulation of proteins in barley seeds by thioredoxin h. *Proteomics*, **2005**, 5, 1634-44	4.8	56
57	Characterization of Rhizobium leguminosarum exopolysaccharide glycanases that are secreted via a type I exporter and have a novel heptapeptide repeat motif. *Journal of Bacteriology*, **1998**, 180, 1691-9	3.5	56
56	Differential appearance of isoforms and cultivar variation in protein temporal profiles revealed in the maturing barley grain proteome. *Plant Science*, **2006**, 170, 808-821	5.3	53
55	Fusarium graminearum and Its Interactions with Cereal Heads: Studies in the Proteomics Era. *Frontiers in Plant Science*, **2013**, 4, 37	6.2	50
54	Analysis of early events in the interaction between Fusarium graminearum and the susceptible barley (Hordeum vulgare) cultivar Scarlett. *Proteomics*, **2010**, 10, 3748-55	4.8	50
53	Investigation of the effect of nitrogen on severity of Fusarium head blight in barley. *Journal of Proteomics*, **2010**, 73, 743-52	3.9	46
52	Identification, cloning and characterization of two thioredoxin h isoforms, HvTrxh1 and HvTrxh2, from the barley seed proteome. *FEBS Journal*, **2003**, 270, 2633-43		46
51	Proteomes of the barley aleurone layer: A model system for plant signalling and protein secretion. *Proteomics*, **2011**, 11, 1595-605	4.8	39
50	Plant redox proteomics. *Journal of Proteomics*, **2011**, 74, 1450-62	3.9	38
49	Spatio-temporal profiling and degradation of alpha-amylase isozymes during barley seed germination. *FEBS Journal*, **2007**, 274, 2552-65	5.7	38
48	Enrichment and identification of integral membrane proteins from barley aleurone layers by reversed-phase chromatography, SDS-PAGE, and LC-MS/MS. *Journal of Proteome Research*, **2006**, 5, 3105-13	5.6	38
47	Do 14-3-3 proteins and plasma membrane H+-AtPases interact in the barley epidermis in response to the barley powdery mildew fungus?. *Plant Molecular Biology*, **2002**, 49, 137-47	4.6	37
46	Extracellular glycanases of Rhizobium leguminosarum are activated on the cell surface by an exopolysaccharide-related component. *Journal of Bacteriology*, **2000**, 182, 1304-12	3.5	36
45	Barley peroxidase isozymes. *International Journal of Mass Spectrometry*, **2007**, 268, 244-253	1.9	33
44	Proteome regulation during Olea europaea fruit development. *PLoS ONE*, **2013**, 8, e53563	3.7	32
43	Environmental and transgene expression effects on the barley seed proteome. *Phytochemistry*, **2004**, 65, 1619-27	4	31
42	Glycopeptide enrichment using a combination of ZIC-HILIC and cotton wool for exploring the glycoproteome of wheat flour albumins. *Journal of Proteome Research*, **2014**, 13, 2696-703	5.6	29
41	Effect of pulsed electric field on the germination of barley seeds. *LWT - Food Science and Technology*, **2012**, 47, 161-166	5.4	29

40	Gibberellic acid-induced aleurone layers responding to heat shock or tunicamycin provide insight into the N-glycoproteome, protein secretion, and endoplasmic reticulum stress. *Plant Physiology*, **2014**, 164, 951-65	6.6	26
39	Crystal structures of barley thioredoxin h isoforms HvTrxh1 and HvTrxh2 reveal features involved in protein recognition and possibly in discriminating the isoform specificity. *Protein Science*, **2008**, 17, 1015-24	6.3	26
38	From protein catalogues towards targeted proteomics approaches in cereal grains. *Phytochemistry*, **2011**, 72, 1145-53	4	24
37	From proteomics to structural studies of cytosolic/mitochondrial-type thioredoxin systems in barley seeds. *Molecular Plant*, **2009**, 2, 378-89	14.4	23
36	Response of germinating barley seeds to Fusarium graminearum: The first molecular insight into Fusarium seedling blight. *Plant Physiology and Biochemistry*, **2011**, 49, 1362-8	5.4	22
35	The plasma membrane proteome of germinating barley embryos. *Proteomics*, **2009**, 9, 3787-94	4.8	22
34	Proteolysis during the isoelectric focusing step of two-dimensional gel electrophoresis may be a common problem. *Analytical Biochemistry*, **2002**, 311, 182-6	3.1	21
33	Identification of thioredoxin target disulfides in proteins released from barley aleurone layers. *Journal of Proteomics*, **2010**, 73, 1133-6	3.9	20
32	Plasma membrane proteome analysis identifies a role of barley membrane steroid binding protein in root architecture response to salinity. *Plant, Cell and Environment*, **2018**, 41, 1311-1330	8.4	19
31	Proteomic and activity profiles of ascorbate-glutathione cycle enzymes in germinating barley embryo. *Phytochemistry*, **2010**, 71, 1650-6	4	19
30	Integration of the barley genetic and seed proteome maps for chromosome 1H, 2H, 3H, 5H and 7H. *Functional and Integrative Genomics*, **2009**, 9, 135-43	3.8	16
29	Structure of Hordeum vulgare NADPH-dependent thioredoxin reductase 2. Unwinding the reaction mechanism. *Acta Crystallographica Section D: Biological Crystallography*, **2009**, 65, 932-41		16
28	Seed thioredoxin h. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2016**, 1864, 974-82	4	13
27	Exploring the Plant-Microbe Interface by Profiling the Surface-Associated Proteins of Barley Grains. *Journal of Proteome Research*, **2016**, 15, 1151-67	5.6	11
26	Spatio-temporal appearance of β-amylase and limit dextrinase in barley aleurone layer in response to gibberellic acid, abscisic acid and salicylic acid. *Journal of the Science of Food and Agriculture*, **2015**, 95, 141-7	4.3	10
25	Investigation of the indigenous fungal community populating barley grains: Secretomes and xylanolytic potential. *Journal of Proteomics*, **2017**, 169, 153-164	3.9	8
24	A novel twist on molecular interactions between thioredoxin and nicotinamide adenine dinucleotide phosphate-dependent thioredoxin reductase. *Proteins: Structure, Function and Bioinformatics*, **2014**, 82, 607-19	4.2	7
23	The barley grain thioredoxin system - an update. *Frontiers in Plant Science*, **2013**, 4, 151	6.2	7

22	Proteome Analysis for the Study of Developmental Processes in Plants151-184		6
21	Surveying the Plant Cell Wall Proteome, or Secretome185-209		6
20	Onset of grain filling is associated with a change in properties of linker histone variants in maize kernels. *Planta*, **2010**, 231, 1127-35	4.7	5
19	Barley Proteome Analysis, Starch Degrading Enzymes and Proteinaceous Inhibitors. *Journal of Applied Glycoscience (1999)*, **2003**, 50, 277-282	1	5
18	Chapter 15 Molecular Recognition in NADPH-Dependent Plant Thioredoxin Systems□Catalytic Mechanisms, Structural Snapshots and Target Identifications. *Advances in Botanical Research*, **2009**, 52, 461-495	2.2	4
17	Barley Proteomics. *Compendium of Plant Genomes*, **2018**, 345-361	0.8	3
16	Monitoring intra- and extracellular redox capacity of intact barley aleurone layers responding to phytohormones. *Analytical Biochemistry*, **2016**, 515, 1-8	3.1	3
15	Immobilisation of barley aleurone layers enables parallelisation of assays and analysis of transient gene expression in single cells. *Plant Physiology and Biochemistry*, **2017**, 118, 71-76	5.4	2
14	Proteomics of Disulphide and Cysteine Oxidoreduction71-97		2
13	Identification of thioredoxin target disulfides using isotope-coded affinity tags. *Methods in Molecular Biology*, **2014**, 1072, 677-85	1.4	2
12	Quantitative Proteomics Analysis of Barley-Based Liquid Feed and the Effect of Protease Inhibitors and NADPH-Dependent Thioredoxin Reductase/Thioredoxin (NTR/Trx) System. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 6432-6444	5.7	1
11	Barley Grain Proteins **2014**, 123-168		1
10	Plant Plasma Membrane Proteomics: Challenges and Possibilities **2011**, 411-434		1
9	Structural Proteomics99-128		
8	Cereal Proteomics129-149		
7	Plant Proteomics: Challenges and Resources1-31		
6	Interactions between Barley .ALPHA.-Amylases, Substrates, Inhibitors and Regulatory Proteins. *Journal of Applied Glycoscience (1999)*, **2006**, 53, 163-169	1	
5	Identification and spatio-temporal expression analysis of barley genes that encode putative modular xylanolytic enzymes. *Plant Science*, **2021**, 308, 110792	5.3	

4 Proteomics of Disulphide and Cysteine Oxidoreduction **2018**, 71-97

3 Proteomic Analysis of Post-Translational Modifications by Mass Spectrometry33-53

2 Strategies for the Investigation of Protein–Protein Interactions in Plants55-70

1 Proteomics of Plant Mitochondria211-243