

# Christine Finnie

## List of Publications by Year in Descending Order

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**Version:** 2024-04-10

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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.

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	Identification and spatio-temporal expression analysis of barley genes that encode putative modular xylanolytic enzymes. <i>Plant Science</i> , <b>2021</b> , 308, 110792	5.3	
74	Quantitative Proteomics Analysis of Barley-Based Liquid Feed and the Effect of Protease Inhibitors and NADPH-Dependent Thioredoxin Reductase/Thioredoxin (NTR/Trx) System. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 6432-6444	5.7	1
73	Plasma membrane proteome analysis identifies a role of barley membrane steroid binding protein in root architecture response to salinity. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 1311-1330	8.4	19
72	Barley Proteomics. <i>Compendium of Plant Genomes</i> , <b>2018</b> , 345-361	0.8	3
71	Proteomics of Disulphide and Cysteine Oxidoreduction <b>2018</b> , 71-97		
70	Immobilisation of barley aleurone layers enables parallelisation of assays and analysis of transient gene expression in single cells. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 118, 71-76	5.4	2
69	Investigation of the indigenous fungal community populating barley grains: Secretomes and xylanolytic potential. <i>Journal of Proteomics</i> , <b>2017</b> , 169, 153-164	3.9	8
68	Seed thioredoxin h. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2016</b> , 1864, 974-82	4	13
67	Molecular speciation and tissue compartmentation of zinc in durum wheat grains with contrasting nutritional status. <i>New Phytologist</i> , <b>2016</b> , 211, 1255-65	9.8	63
66	Exploring the Plant-Microbe Interface by Profiling the Surface-Associated Proteins of Barley Grains. <i>Journal of Proteome Research</i> , <b>2016</b> , 15, 1151-67	5.6	11
65	Monitoring intra- and extracellular redox capacity of intact barley aleurone layers responding to phytohormones. <i>Analytical Biochemistry</i> , <b>2016</b> , 515, 1-8	3.1	3
64	Spatio-temporal appearance of $\alpha$ -amylase and limit dextrinase in barley aleurone layer in response to gibberellic acid, abscisic acid and salicylic acid. <i>Journal of the Science of Food and Agriculture</i> , <b>2015</b> , 95, 141-7	4.3	10
63	A novel twist on molecular interactions between thioredoxin and nicotinamide adenine dinucleotide phosphate-dependent thioredoxin reductase. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2014</b> , 82, 607-19	4.2	7
62	Gibberellic acid-induced aleurone layers responding to heat shock or tunicamycin provide insight into the N-glycoproteome, protein secretion, and endoplasmic reticulum stress. <i>Plant Physiology</i> , <b>2014</b> , 164, 951-65	6.6	26
61	Glycopeptide enrichment using a combination of ZIC-HILIC and cotton wool for exploring the glycoproteome of wheat flour albumins. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 2696-703	5.6	29
60	Barley Grain Proteins <b>2014</b> , 123-168		1
59	Identification of thioredoxin target disulfides using isotope-coded affinity tags. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1072, 677-85	1.4	2

58	The barley grain thioredoxin system - an update. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 151	6.2	7
57	Fusarium graminearum and Its Interactions with Cereal Heads: Studies in the Proteomics Era. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 37	6.2	50
56	Proteome regulation during Olea europaea fruit development. <i>PLoS ONE</i> , <b>2013</b> , 8, e53563	3.7	32
55	Secretomics identifies Fusarium graminearum proteins involved in the interaction with barley and wheat. <i>Molecular Plant Pathology</i> , <b>2012</b> , 13, 445-53	5.7	68
54	Effect of pulsed electric field on the germination of barley seeds. <i>LWT - Food Science and Technology</i> , <b>2012</b> , 47, 161-166	5.4	29
53	Responses of barley root and shoot proteomes to long-term nitrogen deficiency, short-term nitrogen starvation and ammonium. <i>Plant, Cell and Environment</i> , <b>2011</b> , 34, 2024-37	8.4	58
52	Response of germinating barley seeds to Fusarium graminearum: The first molecular insight into Fusarium seedling blight. <i>Plant Physiology and Biochemistry</i> , <b>2011</b> , 49, 1362-8	5.4	22
51	Implications of high-temperature events and water deficits on protein profiles in wheat (Triticum aestivum L. cv. Vinjett) grain. <i>Proteomics</i> , <b>2011</b> , 11, 1684-95	4.8	83
50	Proteomes of the barley aleurone layer: A model system for plant signalling and protein secretion. <i>Proteomics</i> , <b>2011</b> , 11, 1595-605	4.8	39
49	Plant redox proteomics. <i>Journal of Proteomics</i> , <b>2011</b> , 74, 1450-62	3.9	38
48	From protein catalogues towards targeted proteomics approaches in cereal grains. <i>Phytochemistry</i> , <b>2011</b> , 72, 1145-53	4	24
47	Plant Plasma Membrane Proteomics: Challenges and Possibilities <b>2011</b> , 411-434		1
46	Onset of grain filling is associated with a change in properties of linker histone variants in maize kernels. <i>Planta</i> , <b>2010</b> , 231, 1127-35	4.7	5
45	Investigation of the effect of nitrogen on severity of Fusarium head blight in barley. <i>Journal of Proteomics</i> , <b>2010</b> , 73, 743-52	3.9	46
44	Identification of thioredoxin target disulfides in proteins released from barley aleurone layers. <i>Journal of Proteomics</i> , <b>2010</b> , 73, 1133-6	3.9	20
43	Proteomic and activity profiles of ascorbate-glutathione cycle enzymes in germinating barley embryo. <i>Phytochemistry</i> , <b>2010</b> , 71, 1650-6	4	19
42	Comparative proteome analysis of metabolic proteins from seeds of durum wheat (cv. Svevo) subjected to heat stress. <i>Proteomics</i> , <b>2010</b> , 10, 2359-68	4.8	100
41	Analysis of early events in the interaction between Fusarium graminearum and the susceptible barley (Hordeum vulgare) cultivar Scarlett. <i>Proteomics</i> , <b>2010</b> , 10, 3748-55	4.8	50

40	Chapter 15 Molecular Recognition in NADPH-Dependent Plant Thioredoxin Systems: Catalytic Mechanisms, Structural Snapshots and Target Identifications. <i>Advances in Botanical Research</i> , <b>2009</b> , 52, 461-495	2.2	4
39	From proteomics to structural studies of cytosolic/mitochondrial-type thioredoxin systems in barley seeds. <i>Molecular Plant</i> , <b>2009</b> , 2, 378-89	14.4	23
38	Integration of the barley genetic and seed proteome maps for chromosome 1H, 2H, 3H, 5H and 7H. <i>Functional and Integrative Genomics</i> , <b>2009</b> , 9, 135-43	3.8	16
37	The plasma membrane proteome of germinating barley embryos. <i>Proteomics</i> , <b>2009</b> , 9, 3787-94	4.8	22
36	Structure of <i>Hordeum vulgare</i> NADPH-dependent thioredoxin reductase 2. Unwinding the reaction mechanism. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2009</b> , 65, 932-41		16
35	Barley seed proteomics from spots to structures. <i>Journal of Proteomics</i> , <b>2009</b> , 72, 315-24	3.9	85
34	Effects of beta-1,3-glucan from <i>Septoria tritici</i> on structural defence responses in wheat. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 4287-300	7	94
33	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. <i>Plant Physiology</i> , <b>2008</b> , 146, 789-99	6.6	60
32	Crystal structures of barley thioredoxin h isoforms HvTrxh1 and HvTrxh2 reveal features involved in protein recognition and possibly in discriminating the isoform specificity. <i>Protein Science</i> , <b>2008</b> , 17, 1015-24	6.3	26
31	Spatio-temporal changes in germination and radical elongation of barley seeds tracked by proteome analysis of dissected embryo, aleurone layer, and endosperm tissues. <i>Proteomics</i> , <b>2007</b> , 7, 4528-40	4.8	65
30	Spatio-temporal profiling and degradation of alpha-amylase isozymes during barley seed germination. <i>FEBS Journal</i> , <b>2007</b> , 274, 2552-65	5.7	38
29	Barley peroxidase isozymes. <i>International Journal of Mass Spectrometry</i> , <b>2007</b> , 268, 244-253	1.9	33
28	Structural basis for target protein recognition by the protein disulfide reductase thioredoxin. <i>Structure</i> , <b>2006</b> , 14, 1701-10	5.2	87
27	Proteins exported via the PrsD-PrsE type I secretion system and the acidic exopolysaccharide are involved in biofilm formation by <i>Rhizobium leguminosarum</i> . <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 4474-86	3.5	100
26	Enrichment and identification of integral membrane proteins from barley aleurone layers by reversed-phase chromatography, SDS-PAGE, and LC-MS/MS. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 3105-13	5.6	38
25	Differential appearance of isoforms and cultivar variation in protein temporal profiles revealed in the maturing barley grain proteome. <i>Plant Science</i> , <b>2006</b> , 170, 808-821	5.3	53
24	Interactions between Barley .ALPHA.-Amylases, Substrates, Inhibitors and Regulatory Proteins. <i>Journal of Applied Glycoscience</i> (1999), <b>2006</b> , 53, 163-169	1	
23	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. <i>Proteomics</i> , <b>2005</b> , 5, 1634-44	4.8	56

22	Proteome analysis of barley seeds: Identification of major proteins from two-dimensional gels (pI 4-7). <i>Proteomics</i> , <b>2004</b> , 4, 2437-47	4.8	115
21	Environmental and transgene expression effects on the barley seed proteome. <i>Phytochemistry</i> , <b>2004</b> , 65, 1619-27	4	31
20	Cy5 maleimide labelling for sensitive detection of free thiols in native protein extracts: identification of seed proteins targeted by barley thioredoxin h isoforms. <i>Biochemical Journal</i> , <b>2004</b> , 378, 497-507	3.8	107
19	Barley Proteome Analysis, Starch Degrading Enzymes and Proteinaceous Inhibitors. <i>Journal of Applied Glycoscience</i> (1999), <b>2003</b> , 50, 277-282	1	5
18	Feasibility study of a tissue-specific approach to barley proteome analysis: aleurone layer, endosperm, embryo and single seeds. <i>Journal of Cereal Science</i> , <b>2003</b> , 38, 217-227	3.8	58
17	Identification, cloning and characterization of two thioredoxin h isoforms, HvTrxh1 and HvTrxh2, from the barley seed proteome. <i>FEBS Journal</i> , <b>2003</b> , 270, 2633-43		46
16	Proteolysis during the isoelectric focusing step of two-dimensional gel electrophoresis may be a common problem. <i>Analytical Biochemistry</i> , <b>2002</b> , 311, 182-6	3.1	21
15	Do 14-3-3 proteins and plasma membrane H <sup>+</sup> -ATPases interact in the barley epidermis in response to the barley powdery mildew fungus?. <i>Plant Molecular Biology</i> , <b>2002</b> , 49, 137-47	4.6	37
14	Proteome analysis of grain filling and seed maturation in barley. <i>Plant Physiology</i> , <b>2002</b> , 129, 1308-19	6.6	210
13	Extracellular glycanases of <i>Rhizobium leguminosarum</i> are activated on the cell surface by an exopolysaccharide-related component. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 1304-12	3.5	36
12	14-3-3 proteins: eukaryotic regulatory proteins with many functions. <i>Plant Molecular Biology</i> , <b>1999</b> , 40, 545-54	4.6	106
11	Characterization of <i>Rhizobium leguminosarum</i> exopolysaccharide glycanases that are secreted via a type I exporter and have a novel heptapeptide repeat motif. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 1691-9	3.5	56
10	The <i>Rhizobium leguminosarum</i> prsDE genes are required for secretion of several proteins, some of which influence nodulation, symbiotic nitrogen fixation and exopolysaccharide modification. <i>Molecular Microbiology</i> , <b>1997</b> , 25, 135-46	4.1	74
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