Helen M Collins

List of Publications by Year in Descending Order

30 papers	1,075 citations	19 h-index	30 g-index
30 ext. papers	1,245 ext. citations	6.6 avg, IF	3.72 L-index

#	Paper	IF	Citations
30	Genes That Mediate Starch Metabolism in Developing and Germinated Barley Grain. *Frontiers in Plant Science*, **2021**, 12, 641325	6.2	4
29	Identification and spatio-temporal expression analysis of barley genes that encode putative modular xylanolytic enzymes. *Plant Science*, **2021**, 308, 110792	5.3	
28	Transcriptional and biochemical analyses of gibberellin expression and content in germinated barley grain. *Journal of Experimental Botany*, **2020**, 71, 1870-1884	7	11
27	Overexpression of HvCslF6 in barley grain alters carbohydrate partitioning plus transfer tissue and endosperm development. *Journal of Experimental Botany*, **2020**, 71, 138-153	7	10
26	Genetic and environmental factors contribute to variation in cell wall composition in mature desi chickpea (Cicer arietinum L.) cotyledons. *Plant, Cell and Environment*, **2018**, 41, 2195-2208	8.4	18
25	Method for hull-less barley transformation and manipulation of grain mixed-linkage beta-glucan. *Journal of Integrative Plant Biology*, **2018**, 60, 382-396	8.3	8
24	Quantitative structural organisation model for wheat endosperm cell walls: Cellulose as an important constituent. *Carbohydrate Polymers*, **2018**, 196, 199-208	10.3	41
23	Revised Phylogeny of the Gene Superfamily: Insights into Cell Wall Evolution. *Plant Physiology*, **2018**, 177, 1124-1141	6.6	64
22	Isolation of tissues and preservation of RNA from intact, germinated barley grain. *Plant Journal*, **2017**, 91, 754-765	6.9	17
21	Morphology, Carbohydrate Distribution, Gene Expression, and Enzymatic Activities Related to Cell Wall Hydrolysis in Four Barley Varieties during Simulated Malting. *Frontiers in Plant Science*, **2017**, 8, 1872	6.2	17
20	Water uptake in barley grain: Physiology; genetics and industrial applications. *Plant Science*, **2016**, 242, 260-269	5.3	7
19	Effects of diverse food processing conditions on the structure and solubility of wheat, barley and rye endosperm dietary fibre. *Journal of Food Engineering*, **2016**, 169, 228-237	6	32
18	Soluble arabinoxylan alters digesta flow and protein digestion of red meat-containing diets in pigs. *Nutrition*, **2015**, 31, 1141-7	4.8	20
17	Distribution, structure and biosynthetic gene families of (1,3;1,4)-β-glucan in Sorghum bicolor. *Journal of Integrative Plant Biology*, **2015**, 57, 429-45	8.3	22
16	Genetics and physiology of cell wall polysaccharides in the model C4 grass, Setaria viridis spp. *BMC Plant Biology*, **2015**, 15, 236	5.3	11
15	Characterisation of soluble and insoluble cell wall fractions from rye, wheat and hull-less barley endosperm flours. *Food Hydrocolloids*, **2014**, 41, 219-226	10.6	28
14	Separation and purification of soluble polymers and cell wall fractions from wheat, rye and hull less barley endosperm flours for structure-nutrition studies. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 12111-22	5.7	56

13	Pattern of deposition of cell wall polysaccharides and transcript abundance of related cell wall synthesis genes during differentiation in barley endosperm. *Plant Physiology*, **2012**, 159, 655-70	6.6	38
12	Over-expression of specific HvCslF cellulose synthase-like genes in transgenic barley increases the levels of cell wall (1,3;1,4)-□-glucans and alters their fine structure. *Plant Biotechnology Journal*, **2011**, 9, 117-35	11.6	131
11	REVIEW: Variability in Fine Structures of Noncellulosic Cell Wall Polysaccharides from Cereal Grains: Potential Importance in Human Health and Nutrition. *Cereal Chemistry*, **2010**, 87, 272-282	2.4	125
10	The mechanism of boron tolerance for maintenance of root growth in barley (Hordeum vulgare L.). *Plant, Cell and Environment*, **2007**, 30, 984-93	8.4	50
9	QTL analysis of malting quality traits in two barley populations. *Australian Journal of Agricultural Research*, **2007**, 58, 858		47
8	Assessing the Impact of the Level of Diastatic Power Enzymes and Their Thermostability on the Hydrolysis of Starch during Wort Production to Predict Malt Fermentability1. *Journal of the American Society of Brewing Chemists*, **2005**, 63, 185-198	1.9	89
7	Mapping and QTL analysis of the barley population Chebec □Harrington. *Australian Journal of Agricultural Research*, **2003**, 54, 1125		39
6	Use of putative QTLs and structural genes in marker assisted selection for diastatic power in malting barley (Hordeum vulgare L.). *Australian Journal of Agricultural Research*, **2003**, 54, 1241		46
5	Mapping and validation of chromosome regions associated with high malt extract in barley (Hordeum vulgare L.). *Australian Journal of Agricultural Research*, **2003**, 54, 1223		37
4	Mapping and QTL analysis of the barley population Galleon □Haruna Nijo. *Australian Journal of Agricultural Research*, **2003**, 54, 1131		32
3	Mapping and QTL analysis of the barley population Alexis □Sloop. *Australian Journal of Agricultural Research*, **2003**, 54, 1117		30
2	Mapping and QTL analysis of the barley population Amagi Nijo □WI2585. *Australian Journal of Agricultural Research*, **2003**, 54, 1141		28
1	Quantitative trait loci controlling kernel discoloration in barley (Hordeum vulgare L.). *Australian Journal of Agricultural Research*, **2003**, 54, 1251		17