

# Helen M Collins

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/9041477/helen-m-collins-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Over-expression of specific HvCSLF cellulose synthase-like genes in transgenic barley increases the levels of cell wall (1,3;1,4)- $\beta$ -D-glucans and alters their fine structure. <i>Plant Biotechnology Journal</i> , <b>2011</b> , 9, 117-35	11.6	131
29	REVIEW: Variability in Fine Structures of Noncellulosic Cell Wall Polysaccharides from Cereal Grains: Potential Importance in Human Health and Nutrition. <i>Cereal Chemistry</i> , <b>2010</b> , 87, 272-282	2.4	125
28	Assessing the Impact of the Level of Diastatic Power Enzymes and Their Thermostability on the Hydrolysis of Starch during Wort Production to Predict Malt Fermentability <sup>1</sup> . <i>Journal of the American Society of Brewing Chemists</i> , <b>2005</b> , 63, 185-198	1.9	89
27	Revised Phylogeny of the Gene Superfamily: Insights into Cell Wall Evolution. <i>Plant Physiology</i> , <b>2018</b> , 177, 1124-1141	6.6	64
26	Separation and purification of soluble polymers and cell wall fractions from wheat, rye and hull less barley endosperm flours for structure-nutrition studies. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 12111-22	5.7	56
25	The mechanism of boron tolerance for maintenance of root growth in barley ( <i>Hordeum vulgare</i> L.). <i>Plant, Cell and Environment</i> , <b>2007</b> , 30, 984-93	8.4	50
24	QTL analysis of malting quality traits in two barley populations. <i>Australian Journal of Agricultural Research</i> , <b>2007</b> , 58, 858		47
23	Use of putative QTLs and structural genes in marker assisted selection for diastatic power in malting barley ( <i>Hordeum vulgare</i> L.). <i>Australian Journal of Agricultural Research</i> , <b>2003</b> , 54, 1241		46
22	Quantitative structural organisation model for wheat endosperm cell walls: Cellulose as an important constituent. <i>Carbohydrate Polymers</i> , <b>2018</b> , 196, 199-208	10.3	41
21	Mapping and QTL analysis of the barley population Chebec $\times$ Harrington. <i>Australian Journal of Agricultural Research</i> , <b>2003</b> , 54, 1125		39
20	Pattern of deposition of cell wall polysaccharides and transcript abundance of related cell wall synthesis genes during differentiation in barley endosperm. <i>Plant Physiology</i> , <b>2012</b> , 159, 655-70	6.6	38
19	Mapping and validation of chromosome regions associated with high malt extract in barley ( <i>Hordeum vulgare</i> L.). <i>Australian Journal of Agricultural Research</i> , <b>2003</b> , 54, 1223		37
18	Effects of diverse food processing conditions on the structure and solubility of wheat, barley and rye endosperm dietary fibre. <i>Journal of Food Engineering</i> , <b>2016</b> , 169, 228-237	6	32
17	Mapping and QTL analysis of the barley population Galleon $\times$ Haruna Nijo. <i>Australian Journal of Agricultural Research</i> , <b>2003</b> , 54, 1131		32
16	Mapping and QTL analysis of the barley population Alexis $\times$ Loop. <i>Australian Journal of Agricultural Research</i> , <b>2003</b> , 54, 1117		30
15	Characterisation of soluble and insoluble cell wall fractions from rye, wheat and hull-less barley endosperm flours. <i>Food Hydrocolloids</i> , <b>2014</b> , 41, 219-226	10.6	28
14	Mapping and QTL analysis of the barley population Amagi Nijo $\times$ WI2585. <i>Australian Journal of Agricultural Research</i> , <b>2003</b> , 54, 1141		28

13	Distribution, structure and biosynthetic gene families of (1,3;1,4)- $\beta$ -glucan in <i>Sorghum bicolor</i> . <i>Journal of Integrative Plant Biology</i> , <b>2015</b> , 57, 429-45	8.3	22
12	Soluble arabinoxylan alters digesta flow and protein digestion of red meat-containing diets in pigs. <i>Nutrition</i> , <b>2015</b> , 31, 1141-7	4.8	20
11	Genetic and environmental factors contribute to variation in cell wall composition in mature desi chickpea ( <i>Cicer arietinum</i> L.) cotyledons. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 2195-2208	8.4	18
10	Isolation of tissues and preservation of RNA from intact, germinated barley grain. <i>Plant Journal</i> , <b>2017</b> , 91, 754-765	6.9	17
9	Morphology, Carbohydrate Distribution, Gene Expression, and Enzymatic Activities Related to Cell Wall Hydrolysis in Four Barley Varieties during Simulated Malting. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1872	6.2	17
8	Quantitative trait loci controlling kernel discoloration in barley ( <i>Hordeum vulgare</i> L.). <i>Australian Journal of Agricultural Research</i> , <b>2003</b> , 54, 1251		17
7	Genetics and physiology of cell wall polysaccharides in the model C4 grass, <i>Setaria viridis</i> spp. <i>BMC Plant Biology</i> , <b>2015</b> , 15, 236	5.3	11
6	Transcriptional and biochemical analyses of gibberellin expression and content in germinated barley grain. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 1870-1884	7	11
5	Overexpression of HvCslF6 in barley grain alters carbohydrate partitioning plus transfer tissue and endosperm development. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 138-153	7	10
4	Method for hull-less barley transformation and manipulation of grain mixed-linkage beta-glucan. <i>Journal of Integrative Plant Biology</i> , <b>2018</b> , 60, 382-396	8.3	8
3	Water uptake in barley grain: Physiology; genetics and industrial applications. <i>Plant Science</i> , <b>2016</b> , 242, 260-269	5.3	7
2	Genes That Mediate Starch Metabolism in Developing and Germinated Barley Grain. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 641325	6.2	4
1	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	