

# Jesper Harholt

## List of Publications by Citations

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57  
papers

5,795  
citations

34  
h-index

58  
g-index

58  
ext. papers

7,010  
ext. citations

9.8  
avg, IF

6.09  
L-index

#	Paper	IF	Citations
57	Genome sequencing and analysis of the model grass <i>Brachypodium distachyon</i> . <i>Nature</i> , <b>2010</b> , 463, 763-850.4	50.4	1399
56	The Selaginella genome identifies genetic changes associated with the evolution of vascular plants. <i>Science</i> , <b>2011</b> , 332, 960-3	33.3	622
55	The Amborella genome and the evolution of flowering plants. <i>Science</i> , <b>2013</b> , 342, 1241089	33.3	546
54	Biosynthesis of pectin. <i>Plant Physiology</i> , <b>2010</b> , 153, 384-95	6.6	370
53	O-glycosylated cell wall proteins are essential in root hair growth. <i>Science</i> , <b>2011</b> , 332, 1401-3	33.3	220
52	The Chara Genome: Secondary Complexity and Implications for Plant Terrestrialization. <i>Cell</i> , <b>2018</b> , 174, 448-464.e24	56.2	213
51	ARABINAN DEFICIENT 1 is a putative arabinosyltransferase involved in biosynthesis of pectic arabinan in <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2006</b> , 140, 49-58	6.6	210
50	XAX1 from glycosyltransferase family 61 mediates xylosyltransfer to rice xylan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 17117-22	11.5	140
49	Rhamnogalacturonan I in <i>Solanum tuberosum</i> tubers contains complex arabinogalactan structures. <i>Phytochemistry</i> , <b>2004</b> , 65, 1429-38	4	139
48	Novel cell wall architecture of isoxaben-habituated <i>Arabidopsis</i> suspension-cultured cells: global transcript profiling and cellular analysis. <i>Plant Journal</i> , <b>2004</b> , 40, 260-75	6.9	116
47	Identification of a xylogalacturonan xylosyltransferase involved in pectin biosynthesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , <b>2008</b> , 20, 1289-302	11.6	100
46	KORRIGAN1 and its aspen homolog PttCel9A1 decrease cellulose crystallinity in <i>Arabidopsis</i> stems. <i>Plant and Cell Physiology</i> , <b>2009</b> , 50, 1099-115	4.9	91
45	Why Plants Were Terrestrial from the Beginning. <i>Trends in Plant Science</i> , <b>2016</b> , 21, 96-101	13.1	88
44	Biosynthesis of pectin. <i>Physiologia Plantarum</i> , <b>2006</b> , 129, 283-295	4.6	87
43	Disruption of ATCSLD5 results in reduced growth, reduced xylan and homogalacturonan synthase activity and altered xylan occurrence in <i>Arabidopsis</i> . <i>Plant Journal</i> , <b>2007</b> , 52, 791-802	6.9	85
42	QUASIMODO1 is expressed in vascular tissue of <i>Arabidopsis thaliana</i> inflorescence stems, and affects homogalacturonan and xylan biosynthesis. <i>Planta</i> , <b>2005</b> , 222, 613-22	4.7	76
41	Cell wall evolution and diversity. <i>Frontiers in Plant Science</i> , <b>2012</b> , 3, 152	6.2	75

40	UDP-glucose pyrophosphorylase is not rate limiting, but is essential in Arabidopsis. <i>Plant and Cell Physiology</i> , <b>2009</b> , 50, 998-1011	4.9	63
39	Xylogalacturonan exists in cell walls from various tissues of Arabidopsis thaliana. <i>Phytochemistry</i> , <b>2007</b> , 68, 1219-26	4	62
38	Reduced Wall Acetylation proteins play vital and distinct roles in cell wall O-acetylation in Arabidopsis. <i>Plant Physiology</i> , <b>2013</b> , 163, 1107-17	6.6	60
37	A $\beta$ -glucuronosyltransferase from Arabidopsis thaliana involved in biosynthesis of type III arabinogalactan has a role in cell elongation during seedling growth. <i>Plant Journal</i> , <b>2013</b> , 76, 1016-29	6.9	60
36	ARAD proteins associated with pectic Arabinan biosynthesis form complexes when transiently overexpressed in planta. <i>Planta</i> , <b>2012</b> , 236, 115-28	4.7	56
35	Evidence for land plant cell wall biosynthetic mechanisms in charophyte green algae. <i>Annals of Botany</i> , <b>2014</b> , 114, 1217-36	4.1	55
34	Three Novel Rice Genes Closely Related to the Arabidopsis IRX9, IRX9L, and IRX14 Genes and Their Roles in Xylan Biosynthesis. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 83	6.2	54
33	Phenolic cross-links: building and de-constructing the plant cell wall. <i>Natural Product Reports</i> , <b>2020</b> , 37, 919-961	15.1	53
32	The glycosyltransferase repertoire of the spikemoss Selaginella moellendorffii and a comparative study of its cell wall. <i>PLoS ONE</i> , <b>2012</b> , 7, e35846	3.7	52
31	Plant Glycosyltransferases Beyond CAZy: A Perspective on DUF Families. <i>Frontiers in Plant Science</i> , <b>2012</b> , 3, 59	6.2	52
30	Characterization of the primary cell walls of seedlings of Brachypodium distachyon--a potential model plant for temperate grasses. <i>Phytochemistry</i> , <b>2010</b> , 71, 62-9	4	52
29	Insoluble (1- $\beta$ ), (1- $\alpha$ )-D-glucan is a component of cell walls in brown algae (Phaeophyceae) and is masked by alginates in tissues. <i>Scientific Reports</i> , <b>2017</b> , 7, 2880	4.9	46
28	Generation of transgenic wheat (Triticum aestivum L.) accumulating heterologous endo-xylanase or ferulic acid esterase in the endosperm. <i>Plant Biotechnology Journal</i> , <b>2010</b> , 8, 351-62	11.6	39
27	Autohydrolysis of plant xylans by apoplastic expression of thermophilic bacterial endo-xylanases. <i>Plant Biotechnology Journal</i> , <b>2010</b> , 8, 363-74	11.6	37
26	The dynamics of plant cell-wall polysaccharide decomposition in leaf-cutting ant fungus gardens. <i>PLoS ONE</i> , <b>2011</b> , 6, e17506	3.7	36
25	Identification of an algal xylan synthase indicates that there is functional orthology between algal and plant cell wall biosynthesis. <i>New Phytologist</i> , <b>2018</b> , 218, 1049-1060	9.8	35
24	Cell adhesion in Arabidopsis thaliana is mediated by ECTOPICALLY PARTING CELLS 1--a glycosyltransferase (GT64) related to the animal exostosins. <i>Plant Journal</i> , <b>2005</b> , 43, 384-97	6.9	35
23	Large-scale extraction of rhamnogalacturonan I from industrial potato waste. <i>Food Chemistry</i> , <b>2012</b> , 131, 1207-1216	8.5	34

22	A Quick HYL1-Dependent Reactivation of MicroRNA Production Is Required for a Proper Developmental Response after Extended Periods of Light Deprivation. <i>Developmental Cell</i> , <b>2018</b> , 46, 236-247.e6	10.2	33
21	Inactivation of OsIRX10 leads to decreased xylan content in rice culm cell walls and improved biomass saccharification. <i>Molecular Plant</i> , <b>2013</b> , 6, 570-3	14.4	33
20	Engineering temporal accumulation of a low recalcitrance polysaccharide leads to increased C6 sugar content in plant cell walls. <i>Plant Biotechnology Journal</i> , <b>2015</b> , 13, 903-14	11.6	30
19	Third DWF1 paralog in Solanaceae, sterol $\beta$ -isomerase, branches withanolide biosynthesis from the general phytosterol pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E8096-E8103	11.5	26
18	Classification, naming and evolutionary history of glycosyltransferases from sequenced green and red algal genomes. <i>PLoS ONE</i> , <b>2013</b> , 8, e76511	3.7	25
17	Oxidative stability and chemical safety of mayonnaise enriched with grape seed extract. <i>Food and Function</i> , <b>2013</b> , 4, 1647-53	6.1	24
16	Enzyme Activities at Different Stages of Plant Biomass Decomposition in Three Species of Fungus-Growing Termites. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	23
15	Identification and evolution of a plant cell wall specific glycoprotein glycosyl transferase, ExAD. <i>Scientific Reports</i> , <b>2017</b> , 7, 45341	4.9	22
14	Degradation of lignin $\beta$ -aryl ether units in Arabidopsis thaliana expressing LigD, LigF and LigG from <i>Sphingomonas paucimobilis</i> SYK-6. <i>Plant Biotechnology Journal</i> , <b>2017</b> , 15, 581-593	11.6	20
13	Simultaneous in vivo truncation of pectic side chains. <i>Transgenic Research</i> , <b>2009</b> , 18, 961-9	3.3	20
12	Development of novel monoclonal antibodies against starch and ulvan - implications for antibody production against polysaccharides with limited immunogenicity. <i>Scientific Reports</i> , <b>2017</b> , 7, 9326	4.9	15
11	Tracking polysaccharides through the brewing process. <i>Carbohydrate Polymers</i> , <b>2018</b> , 196, 465-473	10.3	13
10	Characterisation of the arabinose-rich carbohydrate composition of immature and mature marama beans ( <i>Tylosema esculentum</i> ). <i>Phytochemistry</i> , <b>2011</b> , 72, 1466-72	4	12
9	Palatability and chemical safety of apple juice fortified with pomegranate peel extract. <i>Food and Function</i> , <b>2013</b> , 4, 1468-73	6.1	10
8	<i>Penium margaritaceum</i> as a model organism for cell wall analysis of expanding plant cells. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1242, 1-21	1.4	6
7	Extensin arabinoside chain length is modulated in elongating cotton fibre. <i>Cell Surface</i> , <b>2019</b> , 5, 100033	4.8	5
6	Metabolism of polysaccharides in dynamic middle lamellae during cotton fibre development. <i>Planta</i> , <b>2019</b> , 249, 1565-1581	4.7	4
5	Glycosyltransferases of the GT47 Family <b>2010</b> , 265-283		4

4	Ancient origin of fucosylated xyloglucan in charophycean green algae. <i>Communications Biology</i> , <b>2021</b> , 4, 754	6.7	4
3	Amylopectin Chain Length Dynamics and Activity Signatures of Key Carbon Metabolic Enzymes Highlight Early Maturation as Culprit for Yield Reduction of Barley Endosperm Starch after Heat Stress. <i>Plant and Cell Physiology</i> , <b>2019</b> , 60, 2692-2706	4.9	3
2	Glycosyltransferases of the GT47 Family <b>2018</b> , 265-283		2
1	Analytical implications of different methods for preparing plant cell wall material. <i>Carbohydrate Polymers</i> , <b>2021</b> , 261, 117866	10.3	0