

# Simon R Turner

## List of Publications by Year in descending order

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68  
papers

8,780  
citations

66234

42  
h-index

106150

65  
g-index

72  
all docs

72  
docs citations

72  
times ranked

6273  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Novel Genes in Arabidopsis Involved in Secondary Cell Wall Formation Using Expression Profiling and Reverse Genetics. <i>Plant Cell</i> , 2005, 17, 2281-2295.	3.1	715
2	Interactions among three distinct CesA proteins essential for cellulose synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1450-1455.	3.3	657
3	The irregular xylem3 Locus of Arabidopsis Encodes a Cellulose Synthase Required for Secondary Cell Wall Synthesis. <i>Plant Cell</i> , 1999, 11, 769-779.	3.1	492
4	Multiple Cellulose Synthase Catalytic Subunits Are Required for Cellulose Synthesis in Arabidopsis. <i>Plant Cell</i> , 2000, 12, 2529-2539.	3.1	441
5	Cloning and characterization of irregular xylem4 ( <i>irx4</i> ): a severely lignin-deficient mutant of Arabidopsis. <i>Plant Journal</i> , 2001, 26, 205-216.	2.8	400
6	An oleate 12-hydroxylase from <i>Ricinus communis</i> L. is a fatty acyl desaturase homolog.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 6743-6747.	3.3	379
7	PXY, a Receptor-like Kinase Essential for Maintaining Polarity during Plant Vascular-Tissue Development. <i>Current Biology</i> , 2007, 17, 1061-1066.	1.8	361
8	Comparison of five xylan synthesis mutants reveals new insight into the mechanisms of xylan synthesis. <i>Plant Journal</i> , 2007, 52, 1154-1168.	2.8	338
9	The PXY-CLE41 receptor ligand pair defines a multifunctional pathway that controls the rate and orientation of vascular cell division. <i>Development (Cambridge)</i> , 2010, 137, 767-774.	1.2	309
10	Absence of branches from xylan in Arabidopsis <i>&lt;i&gt;gux&lt;/i&gt;</i> mutants reveals potential for simplification of lignocellulosic biomass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17409-17414.	3.3	283
11	Characterization of IRX10 and IRX10-like reveals an essential role in glucuronoxylan biosynthesis in Arabidopsis. <i>Plant Journal</i> , 2009, 57, 732-746.	2.8	279
12	BOTERO1 is required for normal orientation of cortical microtubules and anisotropic cell expansion in Arabidopsis. <i>Plant Journal</i> , 2001, 25, 137-148.	2.8	265
13	<i>&lt;i&gt;WOX4&lt;/i&gt;</i> and <i>&lt;i&gt;WOX14&lt;/i&gt;</i> act downstream of the PXY receptor kinase to regulate plant vascular proliferation independently of any role in vascular organisation. <i>Development (Cambridge)</i> , 2013, 140, 2224-2234.	1.2	251
14	Control of Cellulose Synthase Complex Localization in Developing Xylem. <i>Plant Cell</i> , 2003, 15, 1740-1748.	3.1	228
15	Secondary cell walls: biosynthesis and manipulation. <i>Journal of Experimental Botany</i> , 2016, 67, 515-531.	2.4	216
16	Tracheary Element Differentiation. <i>Annual Review of Plant Biology</i> , 2007, 58, 407-433.	8.6	208
17	Arabidopsis â€“ a powerful model system for plant cell wall research. <i>Plant Journal</i> , 2010, 61, 1107-1121.	2.8	184
18	Plant Vascular Cell Division Is Maintained by an Interaction between PXY and Ethylene Signalling. <i>PLoS Genetics</i> , 2012, 8, e1002997.	1.5	172

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19	The irregular xylem 2 mutant is an allele of korrigan that affects the secondary cell wall of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2004, 37, 730-740.	2.8	166
20	The roles of the cytoskeleton during cellulose deposition at the secondary cell wall. <i>Plant Journal</i> , 2008, 54, 794-805.	2.8	140
21	<i>Arabidopsis</i> genes <i>IRREGULAR XYLEM</i> ( <i>IRX15</i> ) and <i>IRX15L</i> encode DUF579-containing proteins that are essential for normal xylan deposition in the secondary cell wall. <i>Plant Journal</i> , 2011, 66, 401-413.	2.8	134
22	Plant cellulose synthesis: CESA proteins crossing kingdoms. <i>Phytochemistry</i> , 2015, 112, 91-99.	1.4	131
23	Collapsed Xylem Phenotype of <i>Arabidopsis</i> Identifies Mutants Deficient in Cellulose Deposition in the Secondary Cell Wall. <i>Plant Cell</i> , 1997, 9, 689.	3.1	130
24	Severing at sites of microtubule crossover contributes to microtubule alignment in cortical arrays. <i>Plant Journal</i> , 2007, 52, 742-751.	2.8	126
25	<i>SPIRAL2</i> Determines Plant Microtubule Organization by Modulating Microtubule Severing. <i>Current Biology</i> , 2013, 23, 1902-1907.	1.8	123
26	Wood Formation in Trees Is Increased by Manipulating PXY-Regulated Cell Division. <i>Current Biology</i> , 2015, 25, 1050-1055.	1.8	123
27	Elucidating the Mechanisms of Assembly and Subunit Interaction of the Cellulose Synthase Complex of <i>Arabidopsis</i> Secondary Cell Walls. <i>Journal of Biological Chemistry</i> , 2009, 284, 3833-3841.	1.6	108
28	A PXY-Mediated Transcriptional Network Integrates Signaling Mechanisms to Control Vascular Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020, 32, 319-335.	3.1	103
29	Cellulose synthesis in the <i>Arabidopsis</i> secondary cell wall. <i>Cellulose</i> , 2004, 11, 329-338.	2.4	100
30	A Comprehensive Analysis of RALF Proteins in Green Plants Suggests There Are Two Distinct Functional Groups. <i>Frontiers in Plant Science</i> , 2017, 8, 37.	1.7	84
31	S-Acylation of the cellulose synthase complex is essential for its plasma membrane localization. <i>Science</i> , 2016, 353, 166-169.	6.0	75
32	Regulation of vascular cell division. <i>Journal of Experimental Botany</i> , 2017, 68, 27-43.	2.4	69
33	Trafficking of the Plant Cellulose Synthase Complex. <i>Plant Physiology</i> , 2010, 153, 427-432.	2.3	66
34	Isolation of <i>COV1</i> , a gene involved in the regulation of vascular patterning in the stem of <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2003, 130, 2139-2148.	1.2	57
35	Mutations of the secondary cell wall. <i>Plant Molecular Biology</i> , 2001, 47, 209-219.	2.0	56
36	Coordination of the cell-specific distribution of the four subunits of glycine decarboxylase and of serine hydroxymethyltransferase in leaves of C3-C4 intermediate species from different genera. <i>Planta</i> , 1993, 190, 468.	1.6	53

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37	A simple, flexible and efficient PCR-fusion/Gateway cloning procedure for gene fusion, site-directed mutagenesis, short sequence insertion and domain deletions and swaps. <i>Plant Methods</i> , 2009, 5, 14.	1.9	53
38	Structure of cellulose-deficient secondary cell walls from the <i>irx3</i> mutant of <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2002, 61, 7-14.	1.4	51
39	Cellulose synthase complex organization and cellulose microfibril structure. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170048.	1.6	51
40	Protocol: a medium-throughput method for determination of cellulose content from single stem pieces of <i>Arabidopsis thaliana</i> . <i>Plant Methods</i> , 2015, 11, 46.	1.9	50
41	Functional Analysis of Cellulose Synthase (CESA) Protein Class Specificity. <i>Plant Physiology</i> , 2017, 173, 970-983.	2.3	48
42	The organisation and expression of the genes encoding the mitochondrial glycine decarboxylase complex and serine hydroxymethyltransferase in pea ( <i>Pisum sativum</i> ). <i>Molecular Genetics and Genomics</i> , 1993, 236-236, 402-408.	2.4	45
43	<i>hca</i> : an <i>Arabidopsis</i> mutant exhibiting unusual cambial activity and altered vascular patterning. <i>Plant Journal</i> , 2005, 44, 271-289.	2.8	41
44	A Cellulose Synthase-Containing Compartment Moves Rapidly Beneath Sites of Secondary Wall Synthesis. <i>Plant and Cell Physiology</i> , 2009, 50, 584-594.	1.5	38
45	Development and application of a high throughput carbohydrate profiling technique for analyzing plant cell wall polysaccharides and carbohydrate active enzymes. <i>Biotechnology for Biofuels</i> , 2013, 6, 94.	6.2	36
46	The effect of different alleles at the <i>r</i> locus on the synthesis of seed storage proteins in <i>Pisum sativum</i> . <i>Plant Molecular Biology</i> , 1990, 14, 793-803.	2.0	34
47	Vascular Patterning. <i>The Arabidopsis Book</i> , 2003, 2, e0073.	0.5	33
48	An atlas of <i>Arabidopsis</i> protein S-acylation reveals its widespread role in plant cell organization and function. <i>Nature Plants</i> , 2022, 8, 670-681.	4.7	32
49	Exploiting CELLULOSE SYNTHASE (CESA) Class Specificity to Probe Cellulose Microfibril Biosynthesis. <i>Plant Physiology</i> , 2018, 177, 151-167.	2.3	31
50	The gapped xylem mutant identifies a common regulatory step in secondary cell wall deposition. <i>Plant Journal</i> , 2000, 24, 477-488.	2.8	27
51	An essential role for Abscisic acid in the regulation of xylem fibre differentiation. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	23
52	Organ-specific genetic interactions between paralogues of the <i>PXY</i> and <i>ER</i> receptor kinases enforce radial patterning in <i>Arabidopsis</i> vascular tissue. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	23
53	T-protein of the glycine decarboxylase multienzyme complex: evidence for partial similarity to formyltetrahydrofolate synthetase. <i>Plant Molecular Biology</i> , 1995, 27, 1215-1220.	2.0	20
54	Trafficking of the cellulose synthase complex in developing xylem vessels. <i>Biochemical Society Transactions</i> , 2010, 38, 755-760.	1.6	20

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55	The molecular basis of plant cellulose synthase complex organisation and assembly. <i>Biochemical Society Transactions</i> , 2021, 49, 379-391.	1.6	19
56	Multiple Cellulose Synthase Catalytic Subunits Are Required for Cellulose Synthesis in Arabidopsis. <i>Plant Cell</i> , 2000, 12, 2529.	3.1	17
57	Orientation of vascular cell divisions in Arabidopsis. <i>Plant Signaling and Behavior</i> , 2010, 5, 730-732.	1.2	13
58	Cell Walls: Monitoring Integrity with THE Kinase. <i>Current Biology</i> , 2007, 17, R541-R542.	1.8	9
59	A novel mechanism important for the alignment of microtubules. <i>Plant Signaling and Behavior</i> , 2008, 3, 238-239.	1.2	7
60	Realizing pipe dreams – a detailed picture of vascular development. <i>Journal of Experimental Botany</i> , 2017, 68, 1-4.	2.4	6
61	A Specific Class of Short Treadmilling Microtubules Enhances Cortical Microtubule Alignment. <i>Molecular Plant</i> , 2016, 9, 1214-1216.	3.9	5
62	Cellulose Synthesis in the Arabidopsis Secondary Cell Wall. , 2007, , 49-61.		4
63	From the nucleus to the apoplast: building the plant’s cell wall. <i>Journal of Experimental Botany</i> , 2016, 67, 445-447.	2.4	3
64	Using CellProfiler to Analyze and Quantify Vascular Morphology. <i>Methods in Molecular Biology</i> , 2017, 1544, 179-189.	0.4	3
65	Analysis of Secondary Cell Wall Formation in Arabidopsis. <i>Progress in Biotechnology</i> , 2001, 18, 85-92.	0.2	1
66	The <i>gapped xylem</i> mutant identifies a common regulatory step in secondary cell wall deposition. <i>Plant Journal</i> , 2000, 24, 477-488.	2.8	1
67	Mutations of the secondary cell wall. , 2001, , 209-219.		1
68	Flexible and digestible wood caused by viral-induced alteration of cell wall composition. <i>Current Biology</i> , 2022, , .	1.8	0