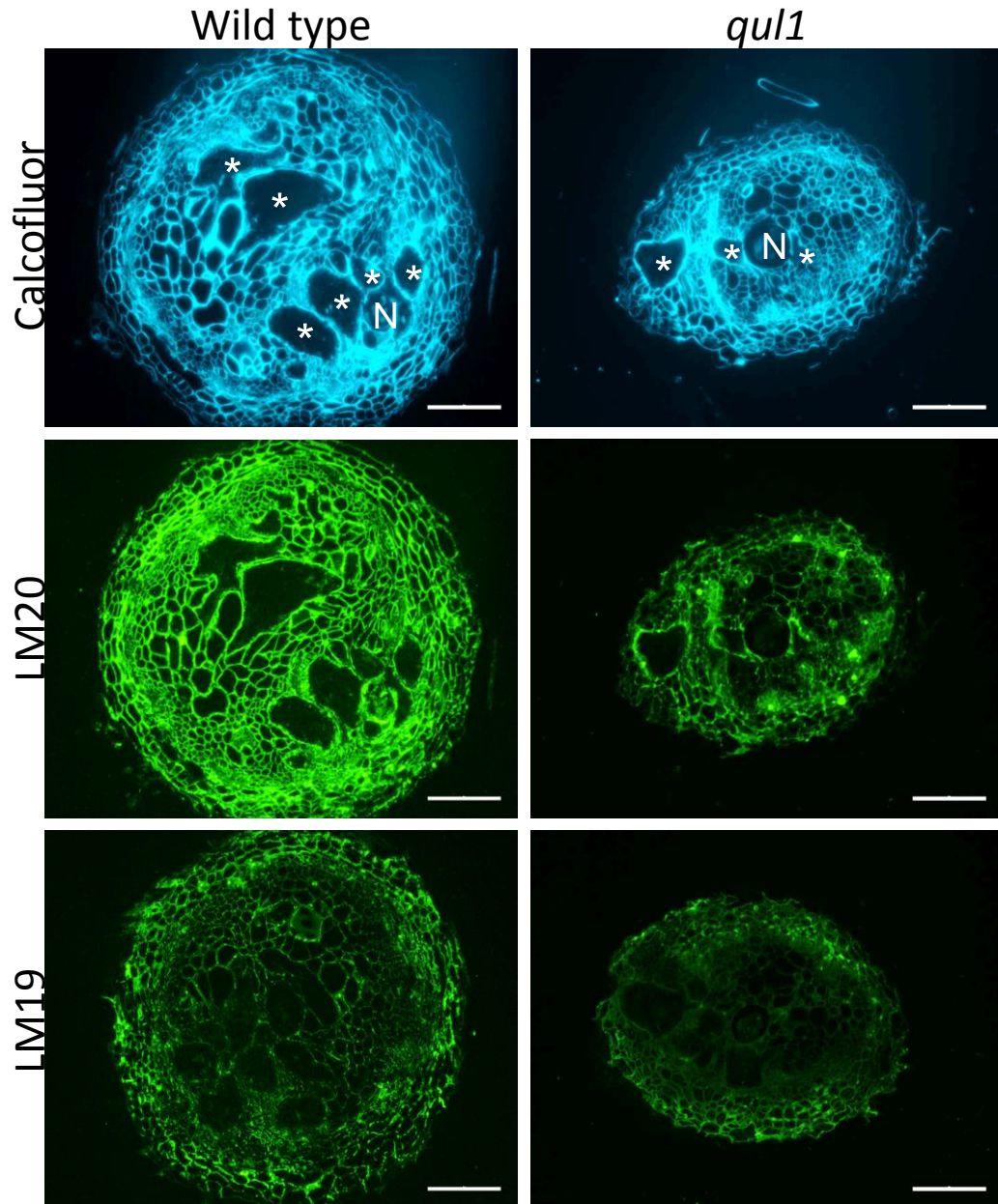
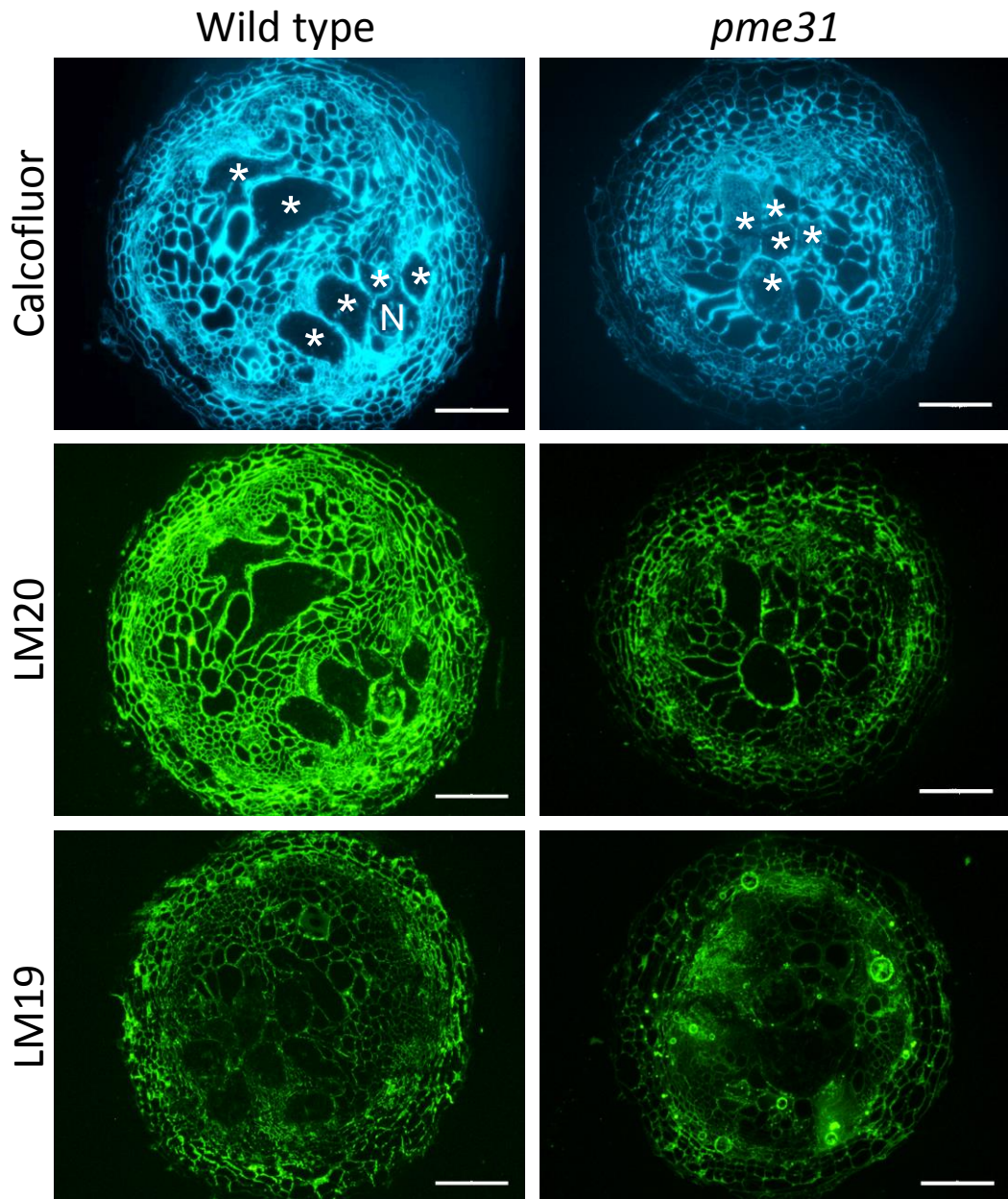


Host-specific signatures of the cell wall changes induced by the plant parasitic nematode, *Meloidogyne incognita*

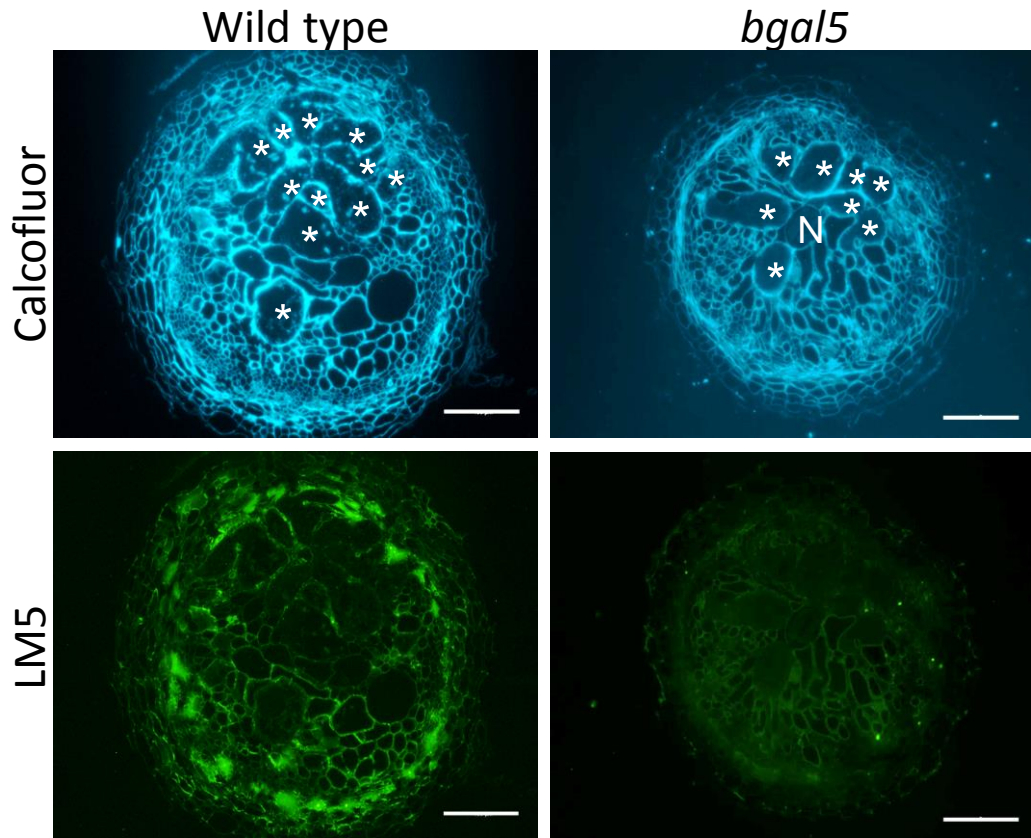
Refik Bozbuga, Catherine J. Lilley, J. Paul Knox, Peter E. Urwin*



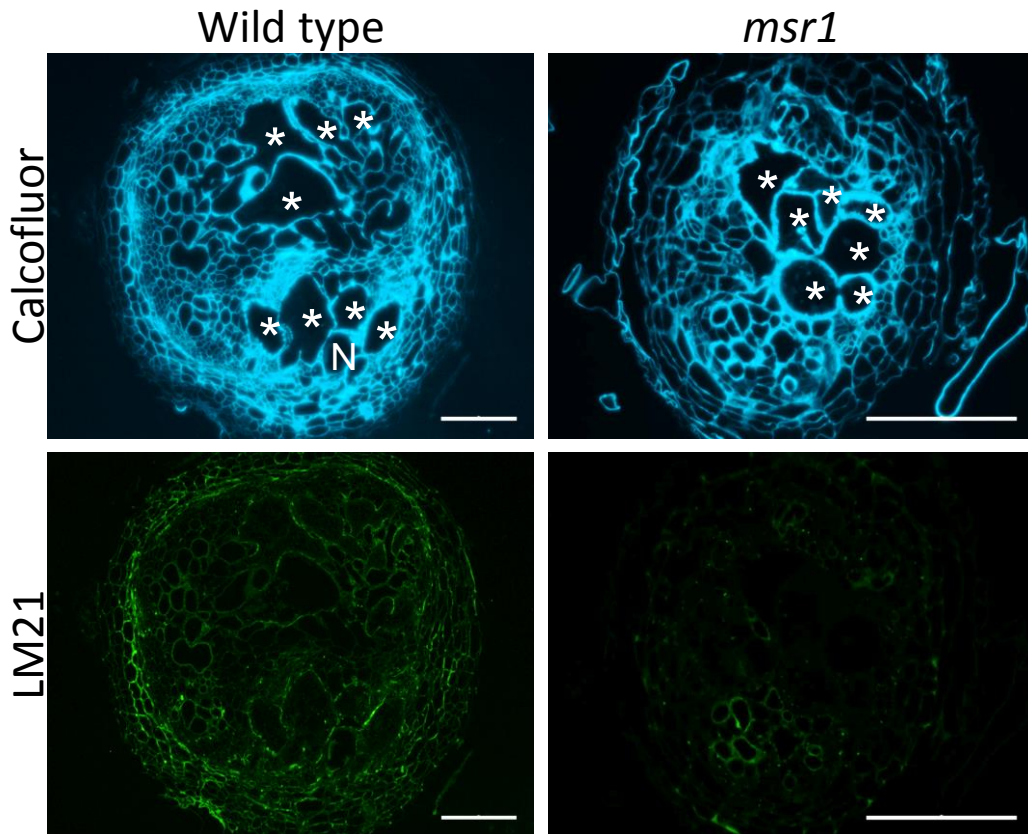
Supplementary Figure 1. Calcofluor-white-stained transverse sections and immunolabelling of methyl esterified and de-esterified pectin homogalacturonan in nematode infected *Arabidopsis* mutant *qul1* in comparison to infected wild type plants at 21 dpi. The LM20 antibody localizes the methyl esterified pectic homogalacturonan and the LM19 antibody localizes the de-esterified pectic homogalacturonan. Asterisks indicate giant cells in nematode feeding site; N, nematode; Bars: 100 μ m.



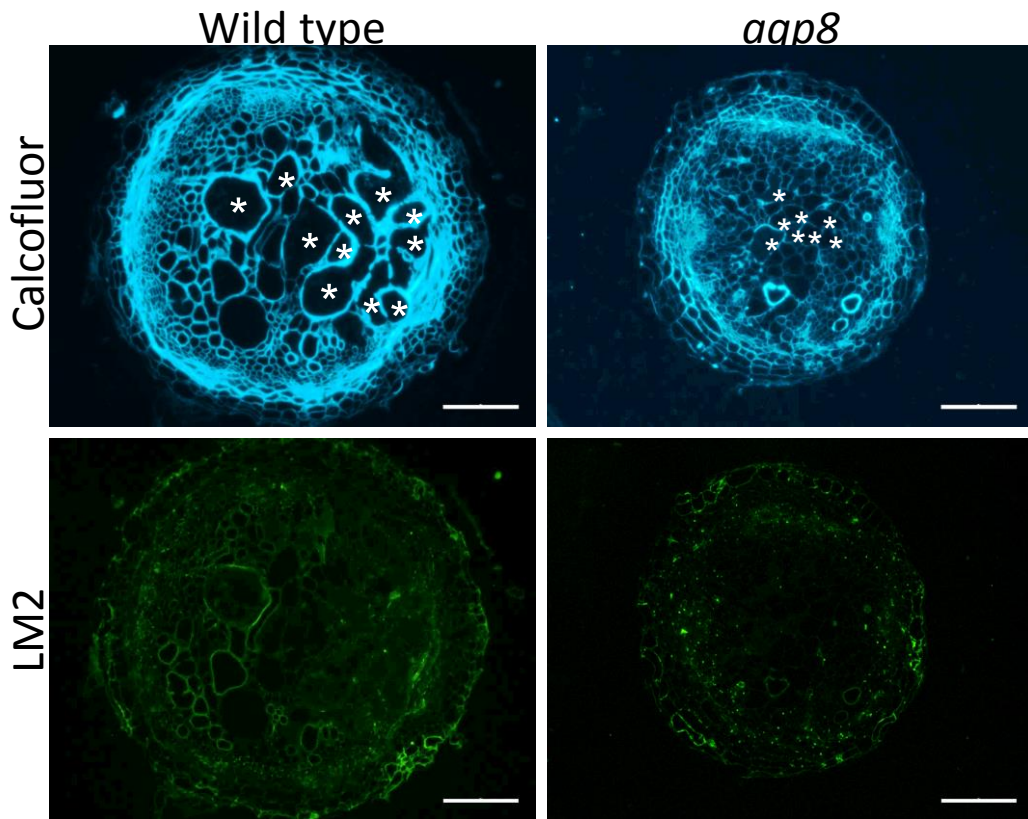
Supplementary Figure 2. Calcofluor-white-stained transverse sections and immunolabelling of methyl esterified and de-esterified pectin homogalacturonan in nematode infected *Arabidopsis* mutant *pme31* in comparison to infected wild type plants at 21 dpi. The LM20 antibody localizes the methyl esterified pectic homogalacturonan and the LM19 antibody localizes the de-esterified pectic homogalacturonan. Asterisks indicate giant cells in nematode feeding site; N, nematode; Bars: 100 μ m.



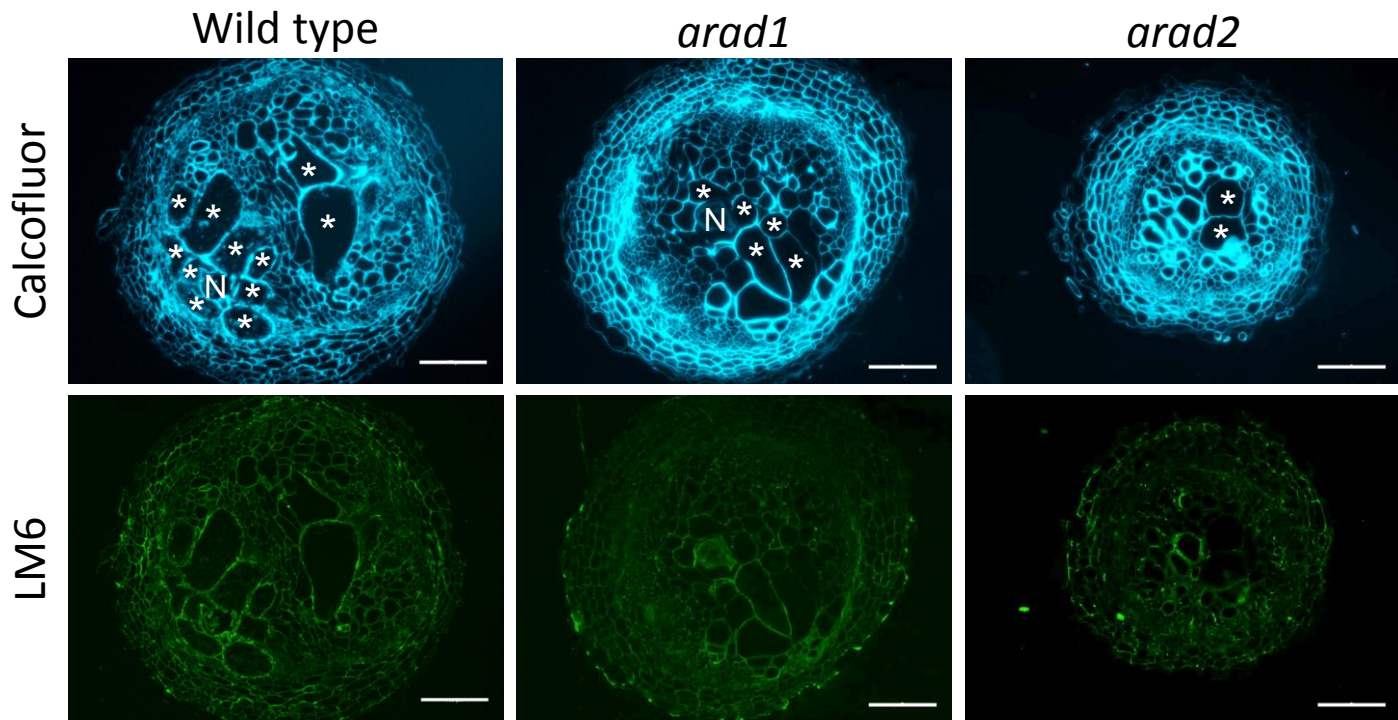
Supplementary Figure 3. Calcofluor-white-stained transverse sections and immunolabelling of galactan in nematode infected *Arabidopsis* mutant *bga15* in comparison to infected wild type plants at 21 dpi. The LM5 antibody localises the galactan epitope, which is reduced in the mutant. Asterisks indicate giant cells in nematode feeding site; N, nematode; Bars: 100 μ m.



Supplementary Figure 4. Calcofluor-white-stained transverse sections and immunolabelling of mannan in nematode infected *Arabidopsis* mutant *msr1* in comparison to infected wild type plants at 21 dpi. The LM21 antibody localises the mannan epitope, which is reduced in the mutant. Asterisks indicate giant cells in nematode feeding site; N, nematode; Bars: 100 μ m.



Supplementary Figure 5. Calcofluor-white-stained transverse sections and immunolabelling of arabinogalactan proteins in nematode infected *Arabidopsis* mutant *agp8* in comparison to infected wild type plants at 21 dpi. The LM2 antibody localises the arabinogalactan-protein epitope. Asterisks indicate giant cells in nematode feeding site; N, nematode; Bars: 100 μ m.



Supplementary Figure 6. Calcofluor-white-stained transverse sections and immunolabelling of arabinan in nematode infected *Arabidopsis* mutants *arad1* and *arad2* in comparison to infected wild type plants at 21 dpi. The LM6 antibody localises the arabinan epitope. Asterisks indicate giant cells in nematode feeding site; N, nematode; Bars: 100 μ m.

Supplementary Table 1: Primers for testing homozygosity of *Arabidopsis thaliana* cell wall mutants

Gene locus	Gene name	Mutant ID	LP primer	RP primer
At2g45470	<i>AGP8</i>	SALK_141852	ATGTAGAACATGAACGTCGGC	CTTTGCCTCCTTTAAGATCGG
At1g45130	<i>BGAL5</i>	SALK_139681	TGCTCCTATCGATGAATACGG	CTTAGAACTAACCGGCAACCC
At3g29090	<i>PME31</i>	SALK_074820	TCAAATTTACCTAGGTGATTTG	CACAACCAAACGTACCAGTCC
At1g13860	<i>QUL1</i>	SALK_094635	CATTTGACATGGTCCACTGTG	TCATCACCCAAACTGATTTCC
At3g21190	<i>MSR1</i>	SALK_075245	CAAGACCTTCCATTTTTGGATC	TACAGGATCAGTTTCGCCATC
At2g35100	<i>ARAD1</i>	(Harholt <i>et al.</i> , 2006)	TATGTGTTCCAGGGTGGAAAAGT	GGGAGACTTGACGCCAGATT
At5g44930	<i>ARAD2</i>	(Harholt <i>et al.</i> , 2012)	GTAGTTGTGTATACCCTAGACT	CGCCTCAGCCGGGTCAAAA

Harholt, J. *et al.* ARABINAN DEFICIENT 1 is a putative arabinosyltransferase involved in biosynthesis of pectic arabinan in *Arabidopsis*. *Plant Physiol.* **140**, 49-58 (2006).

Harholt, J. *et al.* ARAD proteins associated with pectic arabinan biosynthesis form complexes when transiently overexpressed in planta. *Planta* **236**, 115-128 (2012).