

Table S1: Quantitative analysis of root development in *xal1-2* and *xal1-3* strong alleles, and their respective wild-type plants.

Plant line	Rate of root growth ($\mu\text{m h}^{-1}$)	Meristem length (μm)	Elongation zone (μm)	Length of fully elongated cells (μm)	Cell cycle duration (h)	Cell production rate (cell h^{-1})
Col-0 <i>n</i> =17	394 \pm 11	249 \pm 10	1086 \pm 58	164 \pm 6	10.0 \pm 0.3	2.4 \pm 0.3
<i>xal1-2</i> <i>n</i> =20	134 \pm 7	139 \pm 5	548 \pm 25	120 \pm 3	12.6 \pm 0.9	1.1 \pm 0.1
Statistics, <i>P</i>	<0.001	<0.001	<0.001	<0.001	0.029	<0.001
Ler <i>n</i> =20	313 \pm 7	254 \pm 6	1231 \pm 29	169 \pm 3	14.2 \pm 0.5	1.9 \pm 0.04
<i>xal1-3</i> <i>n</i> =20	187 \pm 6	198 \pm 7	1312 \pm 33	160 \pm 3	16.9 \pm 0.8	1.2 \pm 0.04
Statistics, <i>P</i>	<0.001	<0.001	0.072	0.064	0.009	<0.001

Mean \pm SE. As the number of replicates was unequal for Col-0 and *xal1-2*, the *P* was calculated using Mann-Whitney Rank Sum Test; statistical analysis of Ler and *xal1-3* was done using Student's independent *t* test; *n* indicates the number of plants analyzed of two independent experiments. Length of fully elongated cells was calculated as average of averages per each root; in each root 10 cortical cells were measured in young differentiated zone.