

Table 1 Suppl. Intensity values of each region of interest (ROI) to generate the normalised emission spectrum of a transgenic *Arabidopsis* seedling expressing PIN3::PIN3GFP only (relate to Fig. 1A).

Emission wavelength [nm]	Intensity ROI 1	Intensity ROI 2	Intensity ROI 3
502	33.7	100.3	33.6
513	41.1	131.6	39.6
524	30.6	86.0	30.6
534	17.4	29.2	17.4
545	19.2	29.2	19.3
556	20.2	40.2	19.8
566	18.5	31.7	17.9
577	17.0	25.9	16.4

Table 2 Suppl. Intensity values of each region of interest (ROI) to generate the normalised emission spectrum of a transgenic *Arabidopsis* seedling expressing LAX3::LAX3GFP only (relate to Fig. 1D)

Emission wavelength [nm]	Intensity ROI 1	Intensity ROI 2	Intensity ROI 3
502	16.3	14.6	15.5
513	32.9	22.0	27.0
524	71.6	38.7	56.5
534	30.7	20.4	25.1
545	28.4	20.7	23.9
556	38.9	24.2	30.9
566	33.5	22.5	27.8
577	28.6	21.0	24.5

Table 3 Suppl. Intensity values of each region of interest (ROI) to generate the normalised emission spectrum of a double transgenic *Arabidopsis* seedling expressing PIN3::PIN3GFP and LAX3::LAX3GFP (relate to Fig. 1G).

Emission wavelength [nm]	Intensity ROI 1	Intensity ROI 2
502	15.6	120.3
513	21.7	160.4
524	40.2	109.3
534	20.4	32.6
545	21.6	32.9
556	25.3	49.5
566	24.4	37.1
577	24.0	28.1

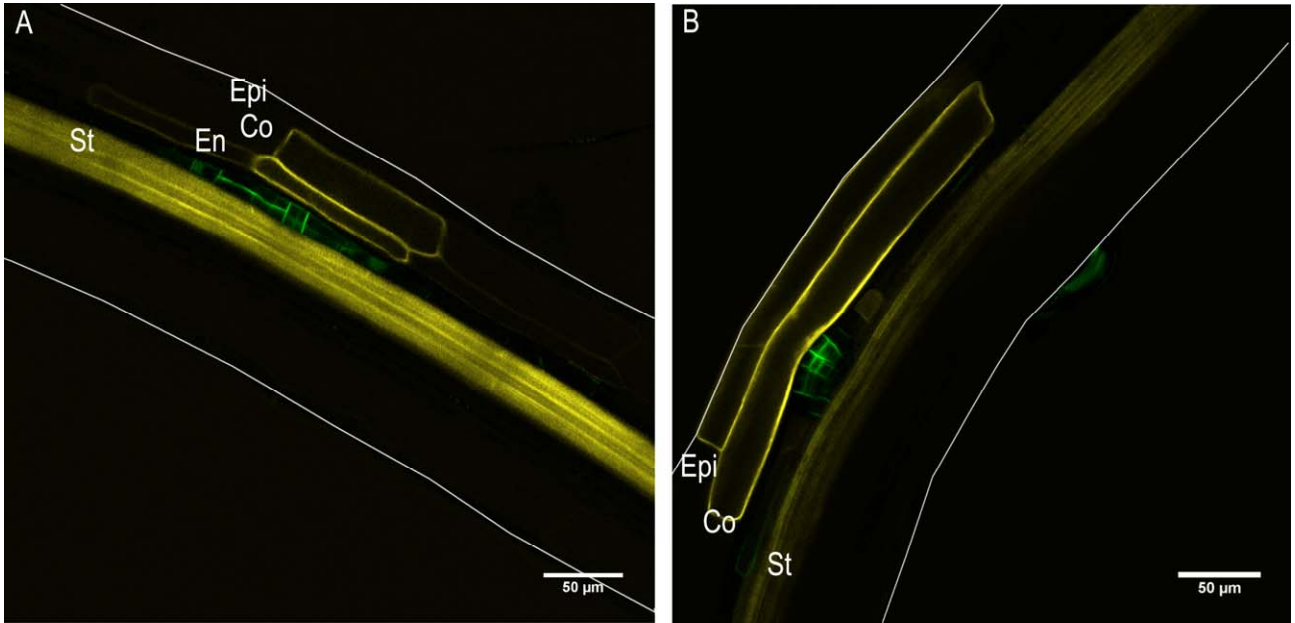


Fig. 1 Suppl. Linear unmixed of the double transgenic *Arabidopsis* line expressing both LAX3::LAX3YFP and PIN3::PIN3GFP at stages II and III of the LR primordium. *A* – The linear unmixed overlay image of the stage II of the LR primordium showing LAX3YFP in the stele and endodermal and cortical cells above the PIN3GFP labeled primordium. *B* – The linear unmixed overlay image of the stage III of the LR primordium showing LAX3YFP in cortical and epidermal cells above the PIN3GFP labelled primordium. En - endodermis, Epi - epidermis, Co - cortex, St - stele.