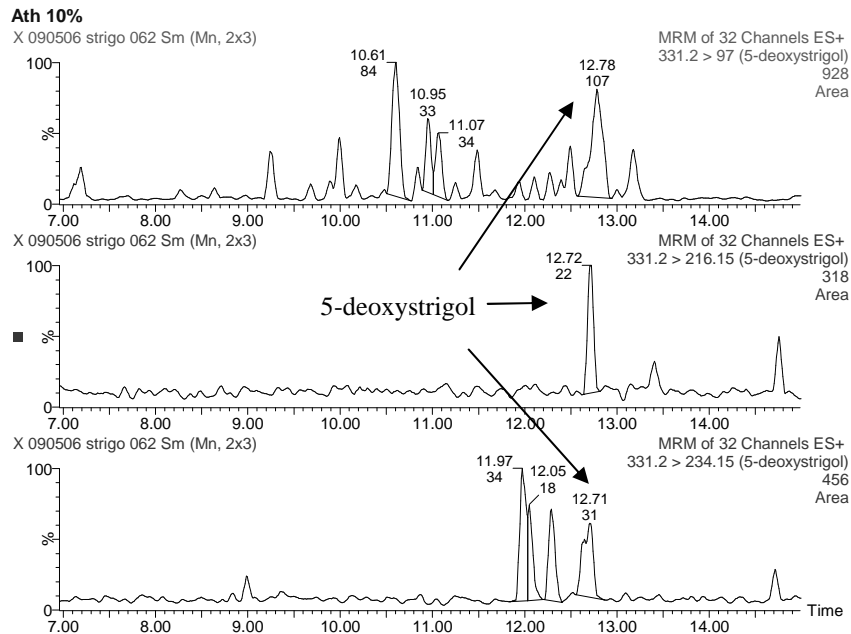
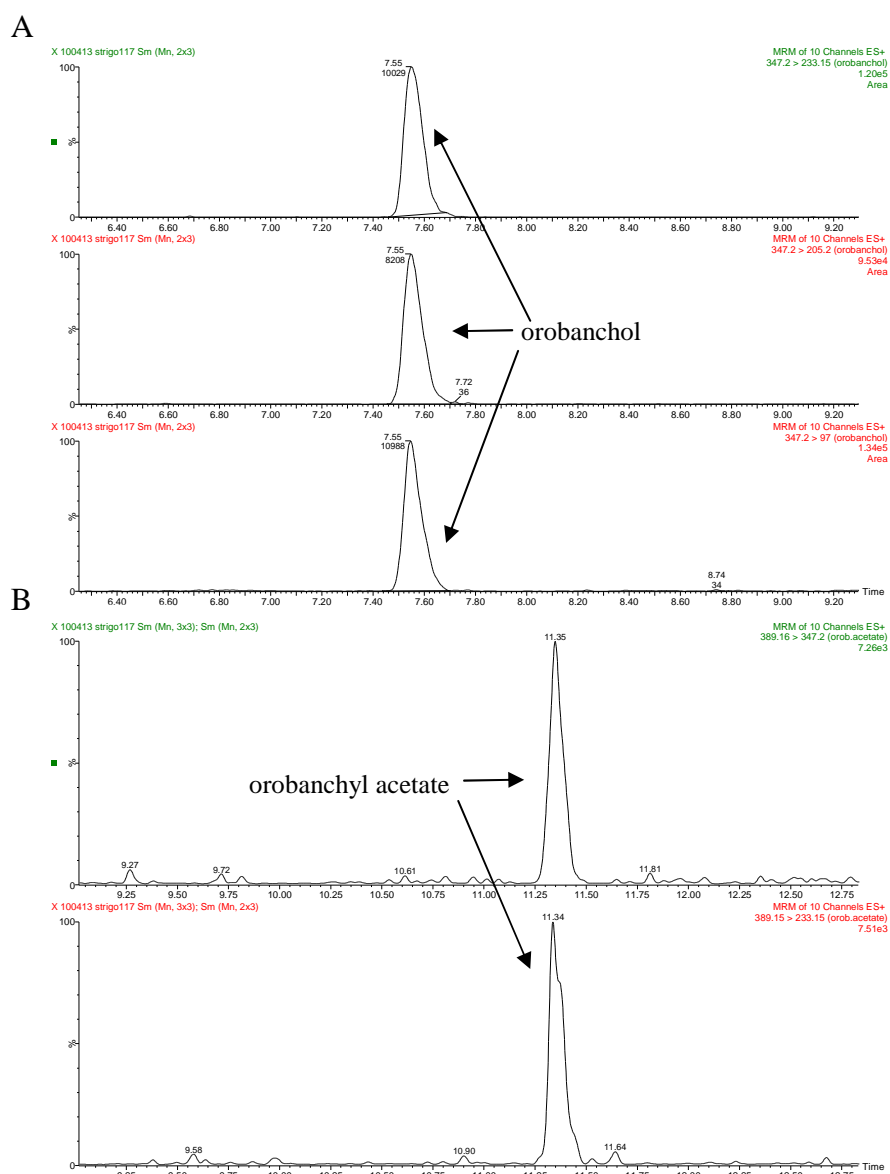


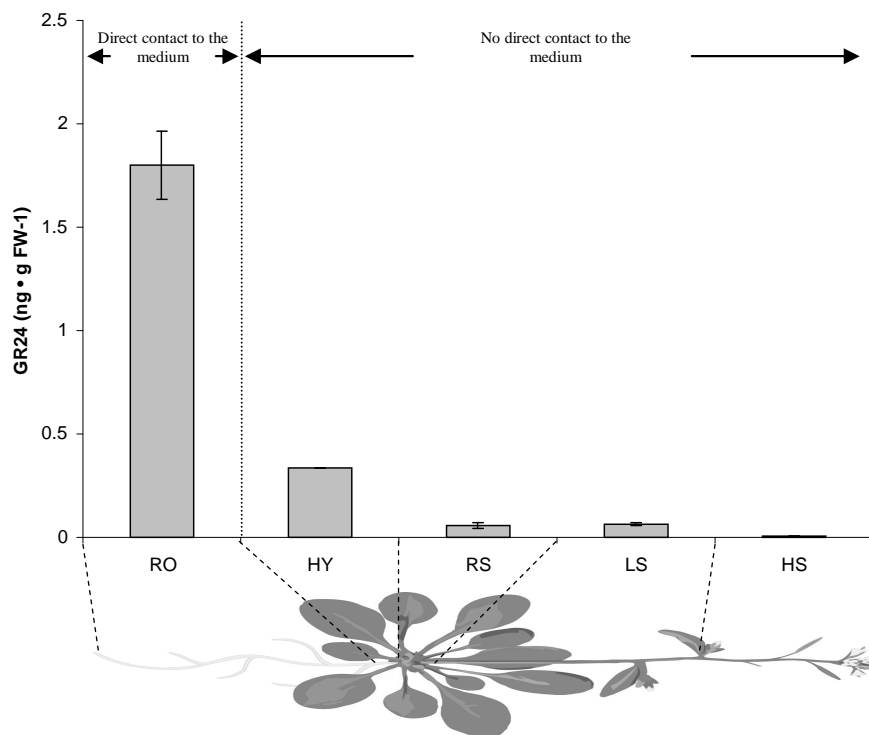
**Figure S1.** Germination of *Phelipanche ramosa* seeds induced by HPLC fractions 25 and 26 of *Arabidopsis* (Col-0, *max1-1*, *max2-1* and *max4-1*) root exudates. Bars represent the average of 3 independent biological replicates ± SE.



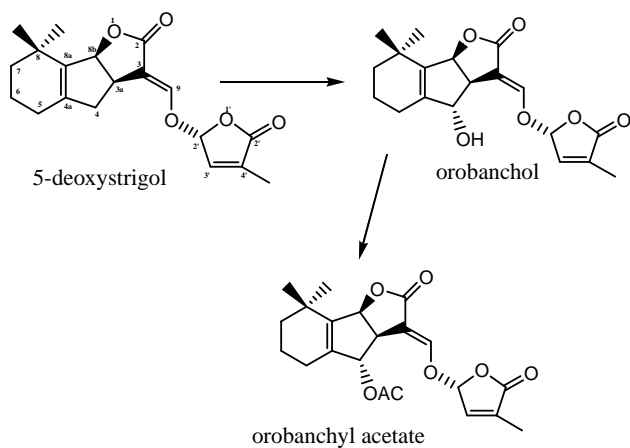
**Figure S2.** MRM-LC-MS/MS analysis of *Arabidopsis* root exudates from plants grown under phosphate starvation, showing transitions 331.2 > 97, 331.2 > 216.15 and 331.2 > 234.15 for 5-deoxystrigol.



**Figure S3.** MRM-LC-MS/MS analysis of *Arabidopsis* root extracts from plants grown under phosphate starvation. A, showing transitions 347 > 233, 347 > 205 and 347 > 96.8 for orobanchol. B, showing transitions 389.2 > 233 and 389.2 > 347 for orobanchyl acetate



**Figure S4.** MRM-LCMS/MS analysis of GR24 uptake and accumulation by *Arabidopsis thaliana* tissues (RO = root system, HY = hypocotyl, RS = rosette stem, LS = lower stem and HS = higher stem).



**Figure S5.** Postulated biosynthetic scheme for the strigolactones formation in *Arabidopsis* (modified from Rani et al., 2008)

**Table S1. HPLC fractioned strigolactone standards**

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<b>Strigolactone standard</b>	<b>HPLC fraction</b>
7-hydroxyorobanchol	11
7-oxoorobanchol	14
7-hydroxyorobanchyl acetate	17
solanacol	17
7-oxoorobanchyl acetate	19
epiorobanchol	20
orobanchol	20
strigol	20
sorgumol	20
GR24	22
orobanchyl acetate	26
sorgolactone	27
5-deoxystrigol	28