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Title: miRNA778 and *SUVH6* are involved in phosphate homeostasis in Arabidopsis

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**Title:** miRNA778 and *SUVH6* are involved in phosphate homeostasis in Arabidopsis

**Running title:** miR778 and *SUVH6* involved in Pi homeostasis

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## Highlights

- miRNA778 and *SUVH6* are involved in phosphate homeostasis in Arabidopsis
- miR778 overexpression enhanced primary root growth and increased shoot free phosphate and anthocyanin accumulation under Pi deficiency.
- A target mimicry version of miR778 (*35S::MIM778*) showed phenotypes different from *35S::miR778* plants
- Expression of miR399, *PHT1*;4, *LPRI*, and *PAP1* was increased in *35S::miR778* plants

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