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Pongamia pinnata (L.) pierre tree seedlings offer a model species for arsenic phytoremediation

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Abstract

Hydroponic experiments were conducted to investigate the effect of different concentrations of arsenic (As) on seedlings of *Pongamia pinnata* (L.). Results revealed that *P. pinnata* successfully tolerated As up to 0.2-1.0 mM and did not show significant reduction in growth and chlorophyll contents. However, these parameters significantly reduced at 1.5 mM of As exposure. Further, *P. pinnata* accumulated As about 528-1122 mg kg^{-1} dry weight in roots,