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Identification of certain *Panax* species to be potential substitutes for *Panax notoginseng* in hemostatic treatments

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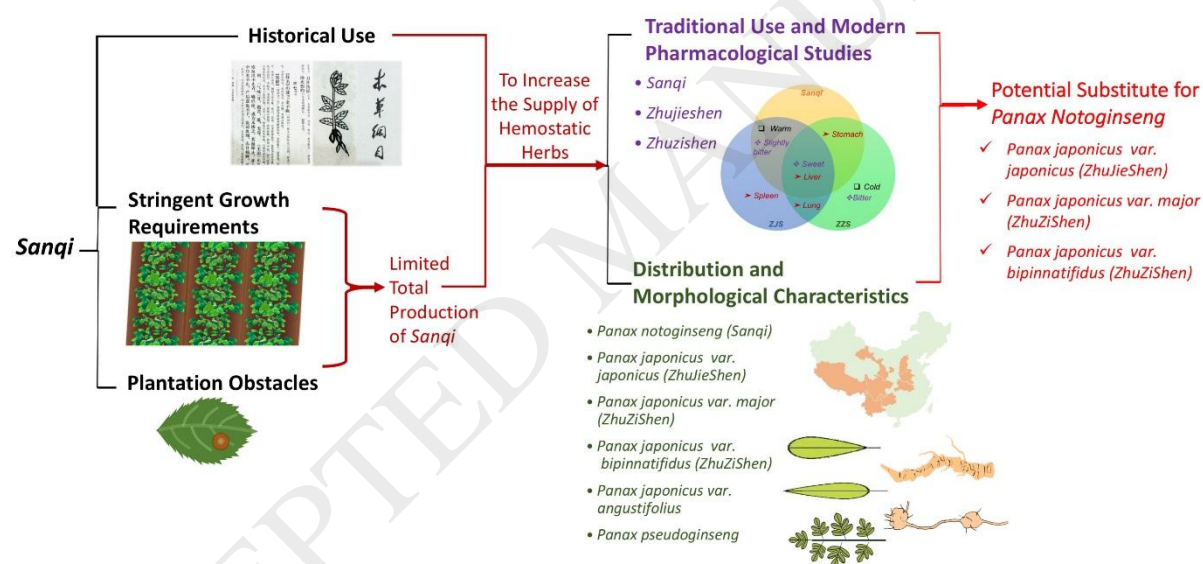
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Graphical abstract



Abstract

Panax notoginseng (Burkill) F. H. Chen ex C. H. Chow (*P. notoginseng*) is a highly valued Chinese materia medica having a hemostatic effect and mainly used for the treatment of trauma and ischemic cardiovascular diseases. Stringent growth requirements, weak resistance to insect pests and plant diseases, arsenic contamination and continuous cropping constitute hurdles to further increases in the agricultural production of *P. notoginseng*. This review focuses on the traditional uses (based on traditional Chinese medicine theory), major chemical components,

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