

欢迎订阅 2022 年

《基因组学与应用生物学》

连续7次被CSCD核心库收录、
连续5次入编北大《中文核心期刊要目总览》

杠柳

Periploca sepium Bunge



■ 图片/文字: 陈任
Picture/Text: Chen Ren

杠柳 (*Periploca sepium* Bunge) 属于萝藦科多年生落叶蔓性灌木。在我国广泛分布于东北、华北、西北、西南地区及河南、湖北、湖南、江苏、江西、广西等省区。杠柳极耐旱、耐寒、耐盐碱, 是优良的固沙、水土保持树种; 杠柳的提取物作药时具有镇痛、强心、除风湿等作用, 也可作为生物杀虫剂; 杠柳的乳汁含有顺式-1,4-聚异戊二烯, 说明其乳管具有天然橡胶生物合成能力, 可望通过遗传改造将其培育成为生产天然橡胶的替代植物。

Periploca sepium Bunge is a perennial deciduous liana shrub belonging to the family Asclepiadaceae, and is widely distributed in Northeast, North, Northwest, Southwest regions and Henan, Hubei, Hunan, Jiangsu, Jiangxi, Guangxi provinces in China. *P. sepium* is outstanding in its high resistance to drought, cold, saline-alkali and is an excellent tree species for sand fixation or soil and water conservation. The extracts from *P. sepium* have various pharmacological functions such as analgesic, cardiotonic, antirheumatic, and can also be used as biopesticides. Moreover, *P. sepium* is known to produce the latex consisting of *cis*-1,4-polyisoprene and indicating that its laticifers have the biosynthetic ability of natural rubber. It is expected that *P. sepium* will be developed as an alternative source for the production of natural rubber by genetic improvement.

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