

Papaver 属植物の種子の形態とアルカロイド

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Seed Morphology and Alkaloids in Genus *Papaver*

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Summary

Cultivation of opium poppy (*Papaver somniferum* L. and *P. setigerum* DC.) and great scarlet poppy (*P. bracteatum* Lindl.) is strictly controlled under the Opium Law and the Narcotics and Psychotropics Control Law, respectively, in Japan. However, viable seeds of narcotic *Papaver* plants sometimes circulate in the market as ornamental flower seeds for gardeners. Seed morphology and alkaloids in genus *Papaver* were investigated in order to contribute to the prevention of illegal cultivation of narcotic *Papaver* plants. Although the seed size and shape of *P. setigerum* are similar to those of garden corn poppy (*P. rhoeas* L.), *P. setigerum* seeds are distinguishable from *P. rhoeas* seeds in the reticular structure of the testa and in the presence of narcotic alkaloids. *P. bracteatum* seeds, which are indistinguishable from *P. pseudo-orientale* (Fedde) Medw. seeds in terms of external morphology, are discriminable by detection of thebaine.

Key words

Papaver somniferum, *Papaver setigerum*, *Papaver bracteatum*, *Papaver rhoeas*, *Papaver pseudo-orientale*, seed