

Relatives of Common Bean with Nutraceutical, Pharmaceutical, and Industrial Uses. (C08-morris115249-Oral)

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Abstract:

The legume group Phaseolinae has four genera which are effective nutraceutical, pharmaceutical, and industrial crops. This group contains species ranging from large sub-tropical vines to small herbs found in the sub-tropical and temperate zones. Winged bean contains the specialty product, beta-sitosterol which is effective for lowering cholesterol in humans. Many other new products from common bean relatives are being discovered almost daily and include products such as kievitone as an anticancer product from hyacinth bean (*Lablab purpureus*) and myo-inositol for potential panic disorder treatment from hyacinth bean, siratro (*Macroptilium atropurpureum*), and horsegram (*Macrotyloma uniflorum*). Many common bean relatives contain additional bio-functional chemicals in adequate quantity to be economical for many commercial applications in the nutraceutical, pharmaceutical, and industrial areas.

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