

## 27 DESMODIUM Desv. (Fabaceae)

### SPECIES COVERED

*D. caudatum* (Thunb.) DC. syn. *D. laburnifolium* (Poir.) DC.

*D. concinnum* DC. var. *concinnum*

*D. elegans* DC. ssp. *elegans* var. *elegans* syn. *D. tiliacifolium* (D. Don) Wall. ex G. Don (*tilifolium*) p.p.; *D. oxyphyllum* Baker, non DC.; *D. oxyphyllum* Baker var. *serriferum* Baker

*D. gangeticum* (Linn.) DC. syn. *D. gangeticum* (Linn.) DC. var. *maculatum* (Linn.) Baker

*D. gyroides* (Link) DC.

*D. heterocarpon* (Linn.) DC. var.

*heterocarpon* syn. *D. polycarpum* DC. var. *trichocaulon* (DC.) Baker

*D. khasianum* Prain

*D. laxiflorum* DC.

*D. microphyllum* (Thunb.) DC. syn. *D. parvifolium* DC.

*D. motorium* (Houtt.) Merrill syn. *D. gyrans* (Linn.f.) DC.; *D. gyrans* (Linn.f.) DC. var. *roylei* (Wight & Arn.) Baker

*D. multiflorum* DC. syn. *D. floribundum* (D. Don) Sweet ex G. Don; *D. sambuense* DC.

*D. polycarpum* DC. syn. *D. purpureum* Hook. & Arn.

*D. pulchellum* (Linn.) Benth. ex Baker  
*D. sequax* Wall. syn. *D. sinuatum* Blume ex Baker

*D. triangulare* (Retz.) Merrill var. *triangulare* syn. *D. cephalotes* (Roxb.) Wight & Arn.

*D. triflorum* (Linn.) DC.

*D. triquetrum* (Linn.) DC. ssp.

*pseudotriquetrum* Prain

*D. triquetrum* (Linn.) DC. ssp. *triquetrum*

*D. umbellatum* (Linn.) DC.

*D. velutinum* (Willd.) DC. syn. *D. latifolium* DC.

*Desmodium* species



*Desmodium gangeticum* (Linn.) DC.

### OTHER ASPECTS COVERED

Regional and Other Names

Habit and Habitat

Ayurvedic Description

Therapeutic Uses Mentioned in Ayurvedic

Pharmacopoeia

Properties and Uses Ascribed

Ethnobotanical Studies

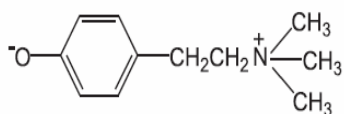
Clinical studies

Pharmacological and biological studies

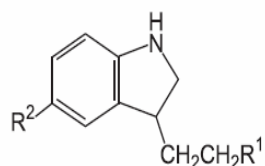
Chemical studies

Pharmacognostic studies

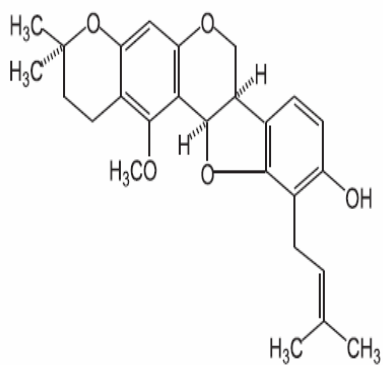
## Major Bioactive Phytoconstituents of *Desmodium* Species



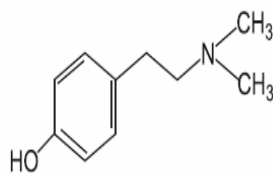
Candicine



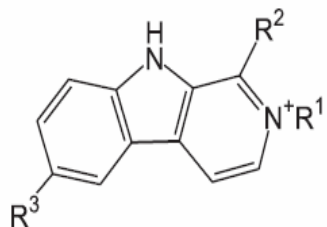
- N,N*-Dimethyltryptamine  $R^1=N(CH_3)_2$ ,  $R^2=H$   
 5-Methoxy-*N,N*-dimethyltryptamine  $R^1=N(CH_3)_2$ ,  $R^2=OCH_3$   
 5-Methoxy-*N,N*-dimethyltryptamine methocation  $R^1=N^+(CH_3)_3$ ,  $R^2=OCH_3$



Gangetin



Hordenine



- $R^1 = R^3 = H$ ;  $R^2 = CH_3$ ;  
 $R^1 = R^2 = CH_3$ ;  $R^3 = OCH_3$

Quarternary aromatic  $\beta$ -carbolines