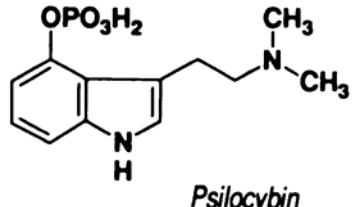
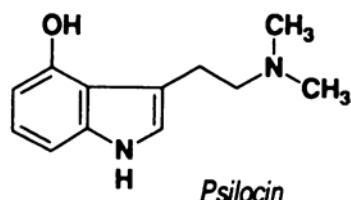


2.8.4 Alkaloidy vycházející z metabolismu tryptofanu

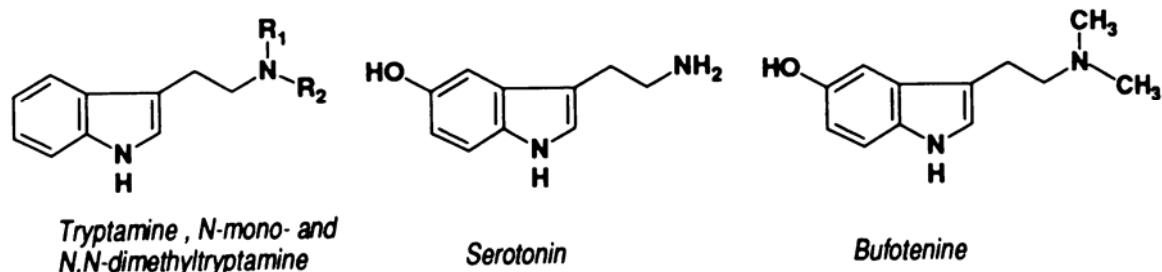
Široká skupina alkaloidních struktur

2.8.4.1 β -Karbolinové alkaloidy (tryptaminy): „halucinogenní indolové alkaloidy“; výrazně rozšířeny v houbách čeledi Agacaceae

Agaricaceae – *Conocybe* sp., *Panaeolus* sp., *Psilocybe* sp., *Stropharia* sp.



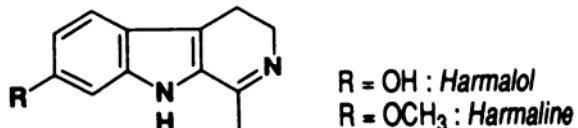
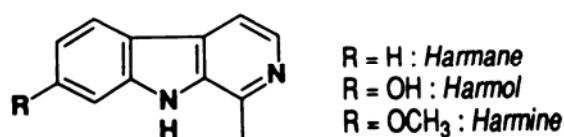
Myristicaceae - *Virola calophylloidea*



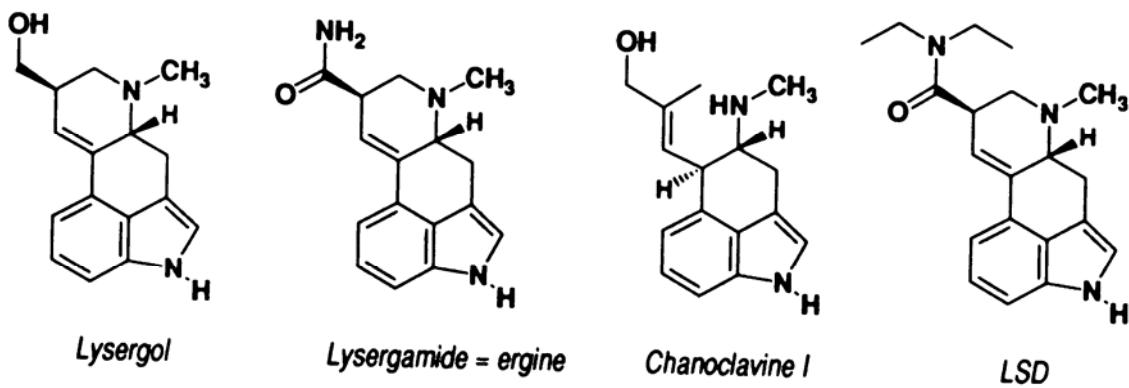
Mimosaceae - *Piptadenia peregrina*

Malpighiaceae - *Banisteriopsis caapi*, B. inebrians

Zygophylaceae - *Peganum harmala*

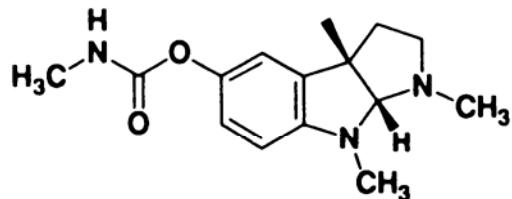


Convolvulaceae - *Ipomea violacea*

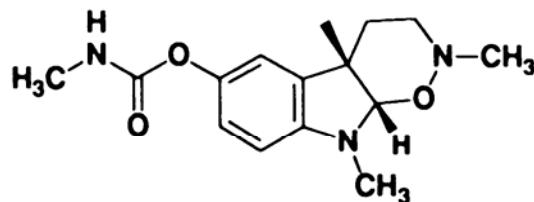


2.8.4.2 Alkaloidy kalabarských bobů

Folder Fabaceae - *Physostigma venenosum*



Physostigmine (eserine)

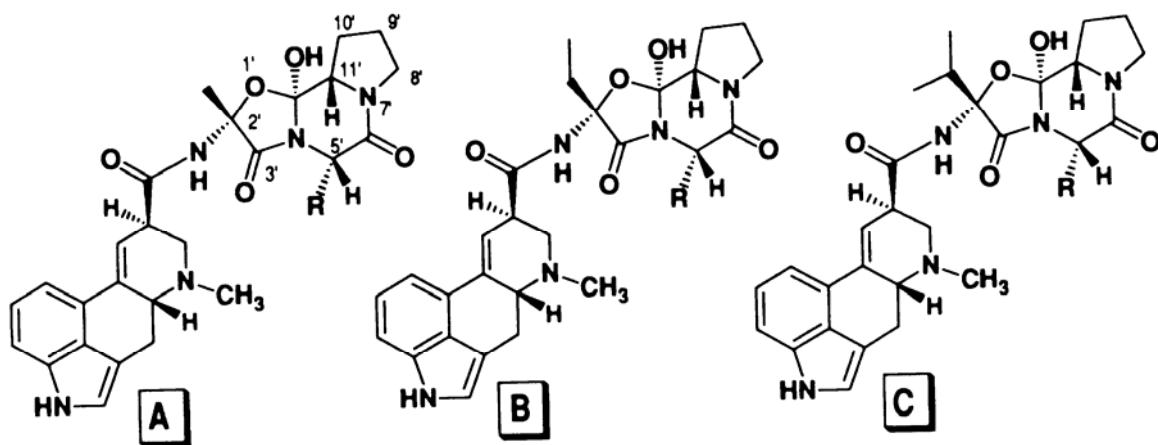


Geneserine

2.8.4.3 Ergolinové alkaloidy

užší strukturní typy:

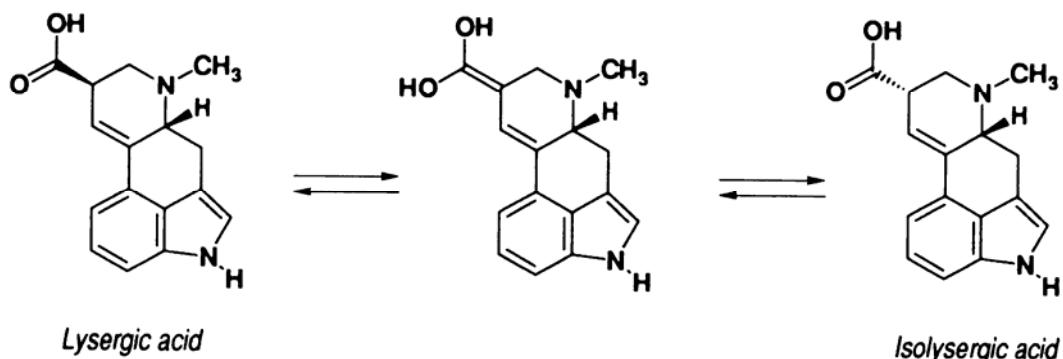
- Folder Clavicipitaceae - *Claviceps purpurea* (*Secale cereale*); *Claviceps paspali* (*Paspalum* sp.); *Claviceps fusiformis* (*Pennisetum* sp.)
- Folder Ertotiaceae - *Aspergillus clavatus*, *Penicillium fumigatum*
- Folder Convolvulaceae - *Argyreia* sp., *Ipomea* sp., *Rivea* sp. aj.



A : Ergotamines B : Ergoxines C : Ergotoxines

$R = \text{CH}_2\text{Ph}$	Ergotamine	Ergostine	Ergocristine
$R = \text{CH}_2\text{CH}(\text{CH}_3)_2$	α -Ergosine	α -Ergoptine	α -Ergocryptine
$R = \text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$	*	*	β -Ergocryptine
$R = \text{CH}(\text{CH}_3)_2$	Ergovaline	Ergonine	Ergocornine
$R = \text{CH}_2\text{CH}_3$	Ergobine	Ergobutine	Ergobutyline

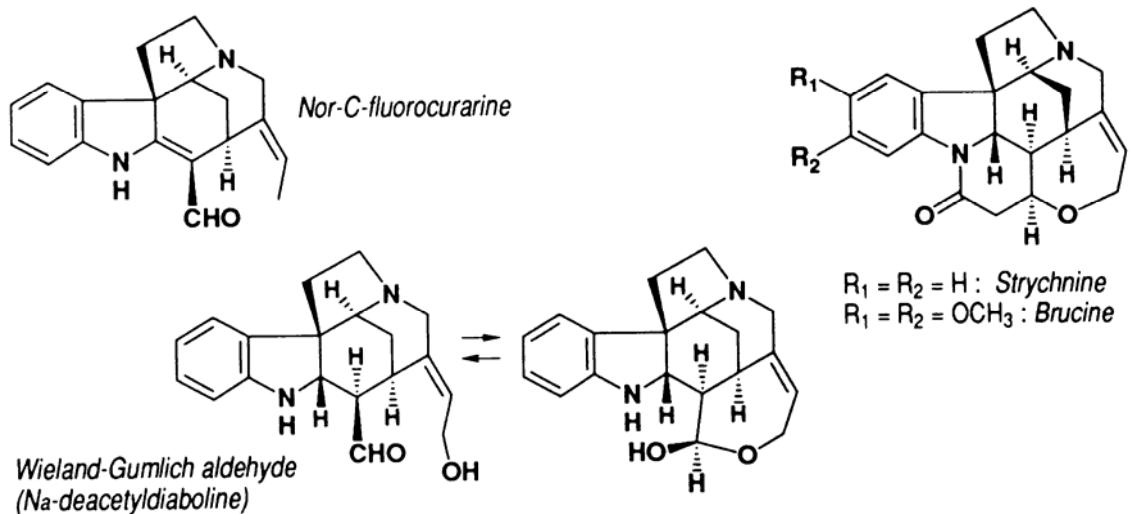
* not known



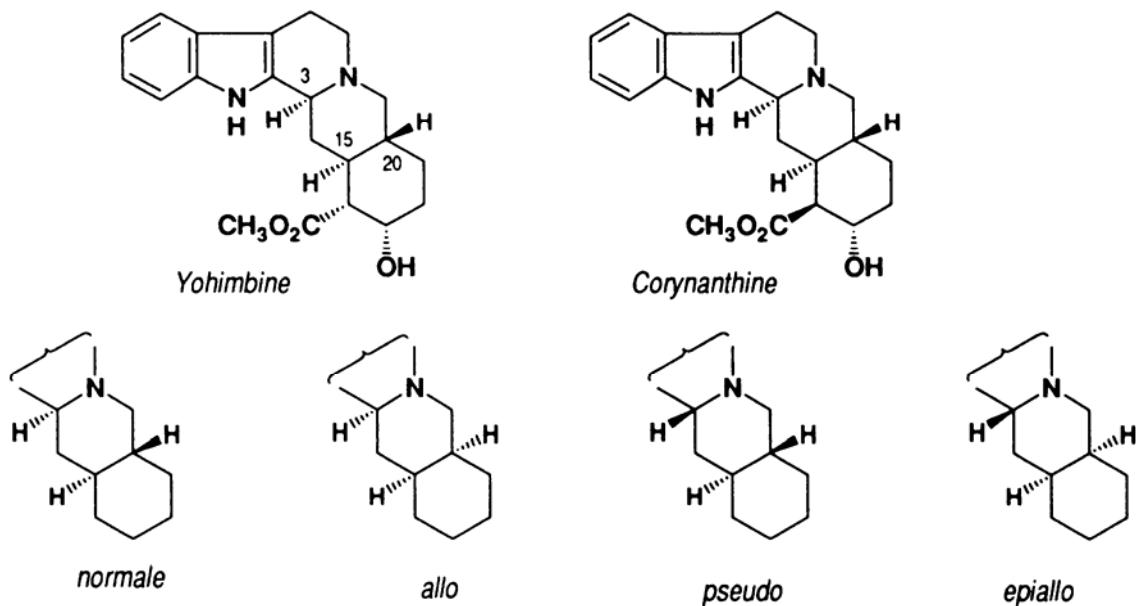
2.8.4.4 Monoterpenické indolové alkaloidy

Indolové alkaloidy sensu stricto:

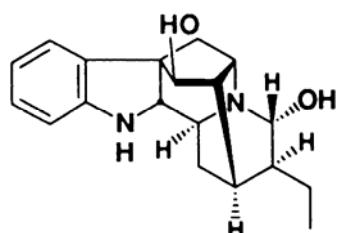
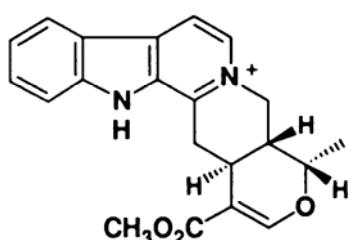
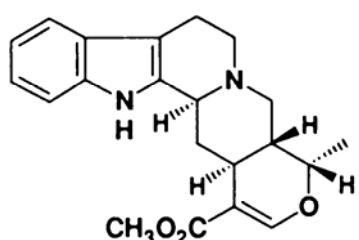
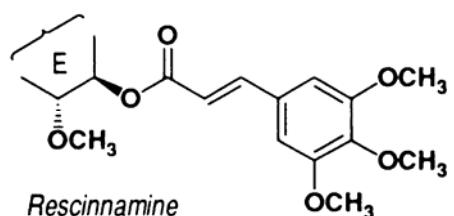
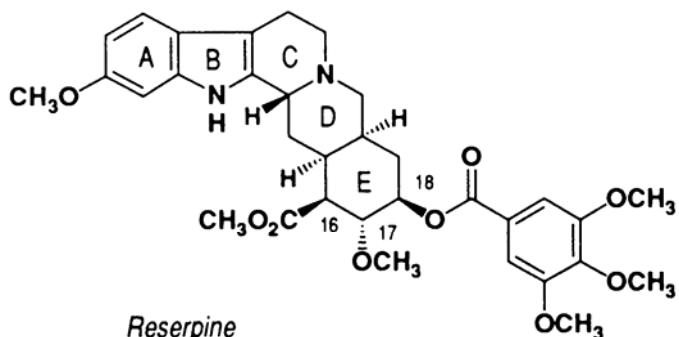
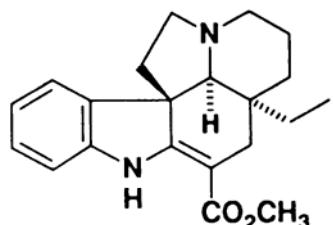
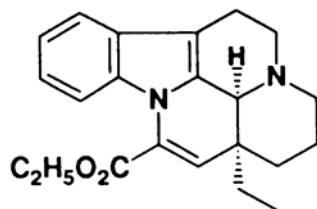
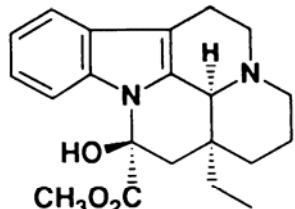
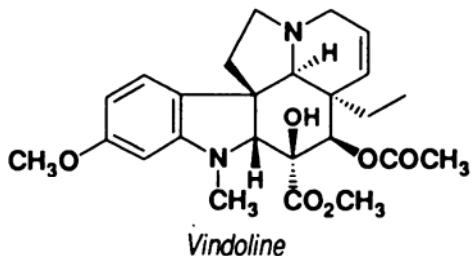
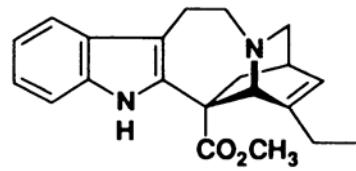
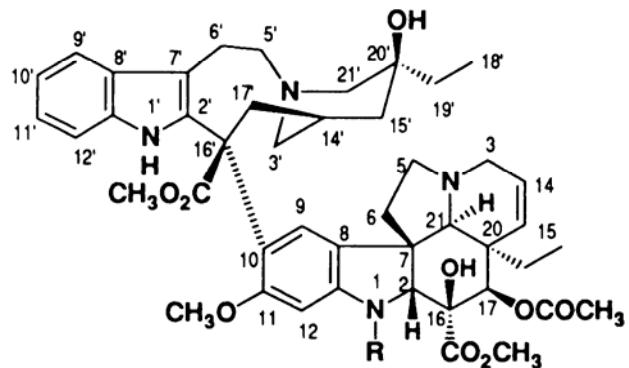
Loganiaceae - *Strychnos nux-vomica*, *Gelsemium sempervirens*

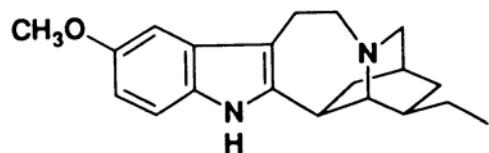


📁 Rubiaceae - *Pausinystalia yohimbe*



📁 Apocynaceae - *Catharanthus roseus*, *Vinca minor*, *Rauwolfia serpentina*, *Tabernanthe iboga*

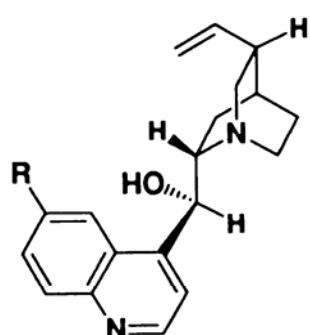




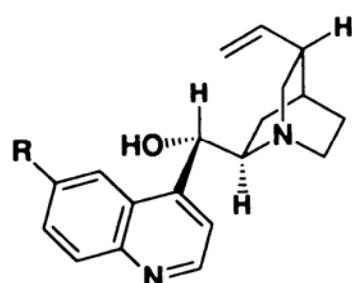
Ibogaine

Chinolinové alkaloidy

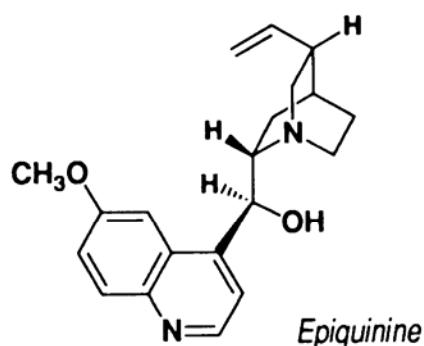
📁 Rubiaceae - *Cinchona* spp.



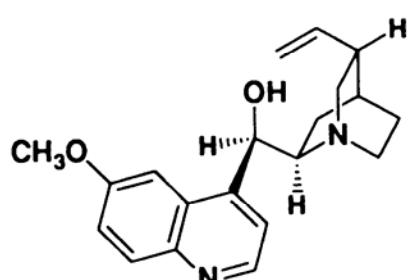
R = OCH₃ : (−)-Quinine (8S, 9R)
R = H : (−)-Cinchonidine (8S, 9R)



R = OCH₃ : (+)-Quinidine (8R, 9S)
R = H : (+)-Cinchonine (8R, 9S)

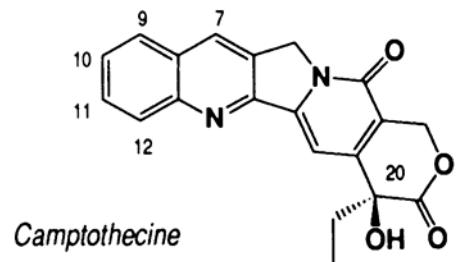


Epiquinine



Epiquinidine

📁 Nyssaceae (Cornales, Rosidae): *Camptotheca* spp.



Camptothecine