

The chemical composition of Amazonian plants(*)

A Catalogue, edited by setor de Fitoquímica, INPA, Manaus, Amazonas

FAMILY:

Apocynaceae

SPECIE:

Aspidosperma discolor A. DC.

OCCURRENCE: Pernambuco and Bahia

TRUNK BARK:

demethylaspidospermine (I)

demethoxyaspidospermine (II)

demetoxypalosine (III)

reserpiline (IV)

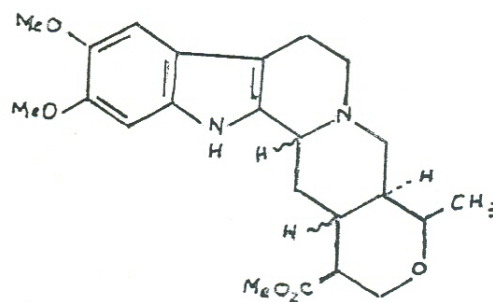
isoreserpiline

isoreserpiline — Ψ — indoxil

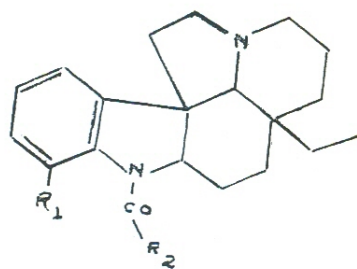
yohimbine

10-methoxydihydrocorynantheol (V)

$\Delta^{19,20}$ -dehydro-10-methoxydihydrocorynantheol



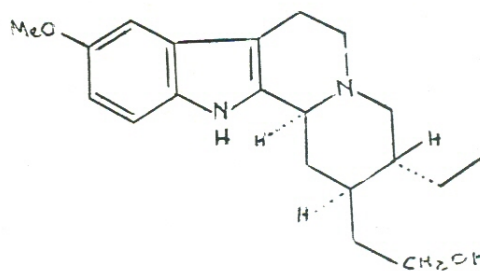
(IV)



(I) R₁ = OH R₂ = CH₃

(II) R₁ = H R₂ = CH₃

(III) R₁ = H R₂ = CH₂CH₃



(V)

REFERENCES:

- 1) Dastoor, N. and Schmid, H. *Exper.* 19, 297 (1963).
- 2) Ferreira, J.M.; Gilbert, B.; Owellen, R.J. and Djerassi, C., *Exper.* 19, 585 (1963).

(*) — Contributions to this catalogue, which will be continued in subsequent issues of this Journal, are invited, and should be submitted to address give above.

FAMILY:

Apocynaceae

SPECIE:

Aspidosperma polyneuron Mull. Arg.

OCCURRENCE: South of Brazil

TRUNK BARK:

normacusine — B (I)

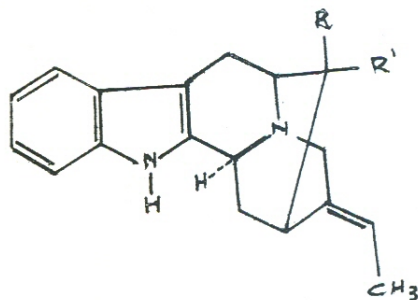
polyneuridine (II)

ROOT BARK:

aspidospermine (III)

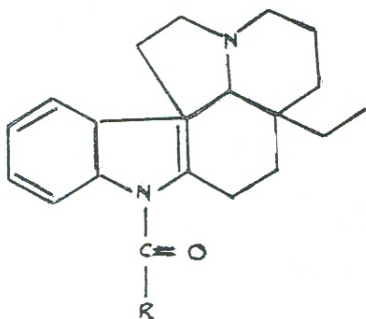
pañosine (IV)

(—) quebrachanine (V)



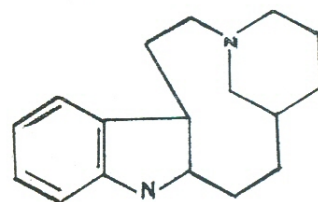
(I) R = CH₂O R' = H

(II) R = CH₂O R' = CO₂CH₃.



(III) R = CH₃

(IV) R = C₂H₅



(V)

REFERENCES:

Antonaccio, L.D.; Pereira, N.A.; Gilbert, B.; Vorbrueggen, H.; Budzikiewicz, H.; Wilson, J.M.; Durhan, L.J. and Djerassi C., *JACS* 84, 2161 (1962).

FAMILY:

Apocynaceae

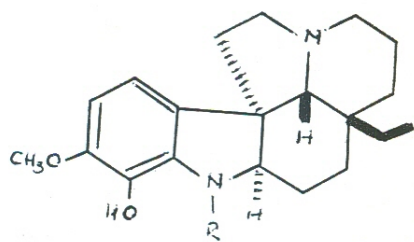
OCCURRENCE: Manaus (AM)

BARK:

- (+)-aspidocarpine (Ia)
- (+)-aspidoimine (Ib)
- dihydroobscurinervine (IIa)
- obscurinervine (IIb)
- dihydroobscurinervidine (IIc)
- obscurinervidine (IId)

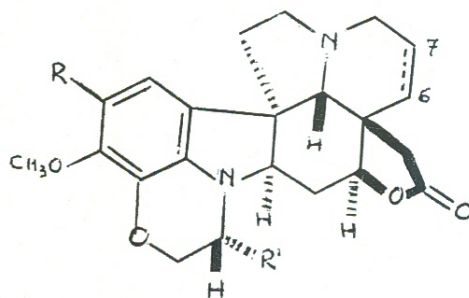
SPECIE:

Aspidosperma obscurinervium
Azembuja.



(Ia) R=COCH₃

(Ib) R=COCH₂CH₃



(IIa) R=OCH₃ R'=CH₂CH₃

(IIb) R=OCH₃ R'=CH₂CH₃

(IIc) R=OCH₃ R'=CH₃

(IId) R=OCH₃ R'=CH₃

6,7—Double bond Absent

6,7—Double bond Present

6,7—Double bond Absent

6,7—Double bond Present

REFERENCES:

Brown, Jr, K.S. and Djerassi, C. *JACS* 86, 2451 (1964).

**IV INTERNATIONAL SYMPOSIUM OF
TROPICAL ECOLOGY**

March 7-11, 1977

Panama, Panama

Central Theme: The Stability of tropical environments and populations

- Special Themes:
- 1) Growth and development of coral reefs
 - 2) Paramos and other high altitude tropical regions
 - 3) Tropical forest ecosystems
 - 4) Tropical savannahs
 - 5) Ecology of tropical lakes and rivers
 - 6) Human settlements in tropical environments

Field trips to Bayano Lake and Barro Colorado Island

President of Organizing Committee:
Dra. Reina Torres de Arauz
Apartado 662
Panama 1, Panama

Abstracts due September 1, 1976

Registration — \$50.00 U.S.

Official languages: Spanish and English, with papers accepted in French and Portuguese.

**INSTITUTO NACIONAL DE
PESQUISAS DA AMAZONIA
INPA - CODC**