

# The Chemical Composition of Amazonian Plants<sup>(\*)</sup>

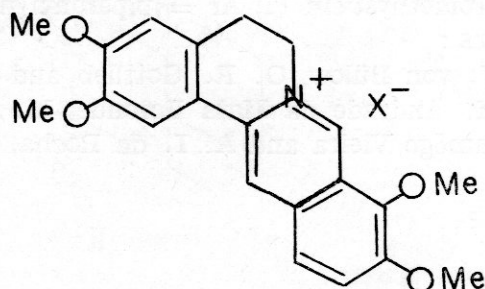
## A Catalogue, edited by Setor de Fitoquímica, INPA, Manaus, Amazonas

FAMILY :  
Menispermaceae

SPECIES :  
*Abuta grandifolia* (Mart.) Sandw.  
"abuta branca", "sanango"

OCCURRENCE : widespread in Amazonia

TRUNK WOOD :  
palmatine



REFERENCE :

A. I. da Rocha, K. Bessho and M. P. Cava, Publ. nº 11, INPA, Manaus (1967).

FAMILY :  
Lauraceae

SPECIES :  
*Aniba coto* (Rusby) Kosterm.  
"coto"

OCCURRENCE : Bolivia

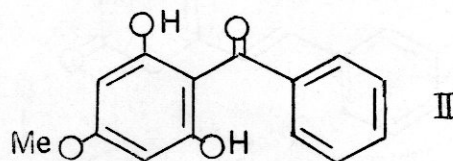
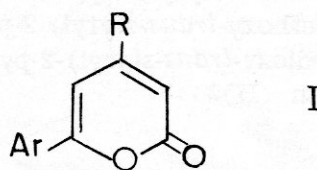
BARK :

anibine (I, Ar =  $\beta$ -pyridyl, R = OMe)<sup>1</sup>

phenylcoumalin (I, Ar = phenyl, R = H)<sup>2</sup>

paracotoin (I, Ar = piperonyl, R = H)<sup>2</sup>

cotoin (II) <sup>3,4</sup>



REFERENCES :

1. W. B. Mors and O. R. Gottlieb, *Anais* 841 (1894). - *Anais Assoc. Brasil. Quim.*, 18, 187 (1959)
2. G. Ciamician and P. Silber, *Ber.*, 27, 841 (1894).
3. J. Jobst and O. Hesse, *Ann.*, 119, 17 (1879).
4. G. Ciamician and P. Silber, *Ber.*, 25, 1119 (1892).

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

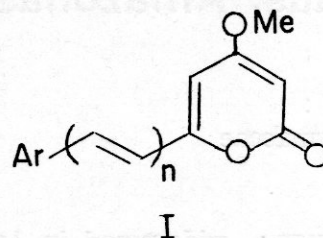
FAMILY :  
Lauraceae

SPECIES :  
*Aniba permollis* (Ness) Mez  
"louro limão", "louro aritu falso"

OCCURRENCE : Manaus, Amazonas; Serra do Navio, Território do Amapá

TRUNK WOOD :

benzyl benzoate 1  
benzyl salicylate 1  
4-methoxyparacotoin (I, Ar = piperonyl, n = zero)<sup>2</sup>  
5,6-dehydrokawain (I, Ar = *trans*-styryl, n = 1)<sup>2</sup>  
6-(3', 4'-dimethoxy-*trans*-styryl)-4-methoxy-2-pyrone  
(I, Ar = 3', 4'-phenyl, n = 1)<sup>2</sup>  
5,6-dehydromethysticin (I, Ar = piperonyl n = 1)<sup>2</sup>



REFERENCES :

1. M. V. von Bülow, O. R. Gottlieb and A. I. da Rocha, unpublished observations
2. C. M. Andrade da Mata Rezende, M. V. von Bülow, O. R. Gottlieb, S. Lamêgo Vieira and A. I. da Rocha, *Phytochem.* 10, 000 (1971).

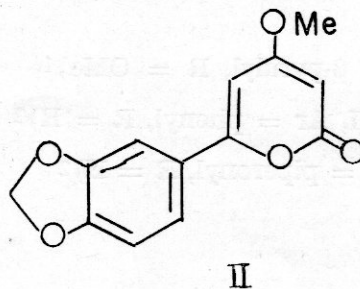
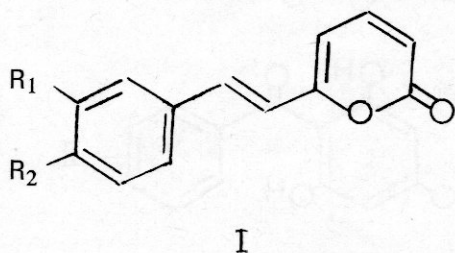
FAMILY :  
Lauraceae

SPECIES :  
*Aniba parviflora* (Meissn.) Mez

OCCURRENCE : Santarém, Pará

TRUNK WOOD :

benzyl benzoate 1  
6-(*trans*-styryl)-2-pyrone (I, R<sub>1</sub> = R<sub>2</sub> = H)<sup>2,3</sup>  
6-(4'-hydroxy-*trans*-styryl)-2-pyrone (I, R<sub>1</sub> = H, R<sub>2</sub> = OH)<sup>4</sup>  
6-(3', 4'-dihydroxy-*trans*-styryl)-2-pyrone (I, R<sub>1</sub> = R<sub>2</sub> = OH)<sup>4</sup>  
6-(4'-hydroxy-3'-methoxy-*trans*-styryl)-2-pyrone (I, R<sub>1</sub> = OMe, R<sub>2</sub> = OH)<sup>2,3</sup>  
6-(3', 4'-methylenedioxy-*trans*-styryl)-2-pyrone (I, R<sub>1</sub> = R<sub>2</sub> = OCH<sub>2</sub>O)<sup>2,3</sup>  
4-methoxyparacotoin (II)<sup>2</sup>



REFERENCES :

- 1 O.R.Gottlieb and M. Taveira Magalhães, unpublished observation.
- 2 O.R.Gottlieb, A.M. Bittencourt, W.B. Mors and M. Taveira Magalhães, *Anais Acad. brasil. Ciênc.*, 36, 29 (1964).
- 3 A.M.Bittencourt, O.R.Gottlieb, W.B. Mors, M.Taveira Magalhães, S.Mageswaran, W.D.Ollis and I.O.Sutherland, *Tetrahedron*, 27, 1043 (1971).
- 4 C.M.Andrade da Mata Rezende, M.V.von Bülow, O.R.Gottlieb, S.Lamêgo Vieira Pinho and A.I.da Rocha, *Phytochem.*, 10, 000 (1971).

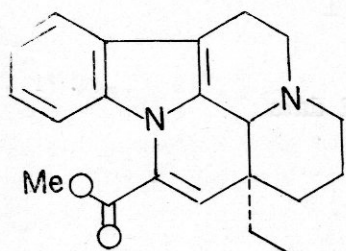
FAMILY :  
Apocynaceae

SPECIES :  
*Tabernaemontana rigida* Miers

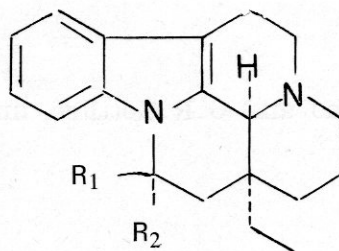
OCCURRENCE : Manaus, Amazonas

TRUNK WOOD :

- (+)-apovincamine (I)
- (+)-vincamine (II,  $R_1 = OH$ ,  $R_2 = CO_2CH_3$ )
- (±)-vincamine (II,  $R_1 = OH$ ,  $R_2 = CO_2CH_3$ )
- (-)-14-epivincamine (II,  $R_1 = CO_2CH_3$ ,  $R_2 = OH$ )
- (±)-14-epivincamine (II,  $R_1 = CO_2CH_3$ ,  $R_2 = OH$ )



I



II

REFERENCE :

M.P.Cava, S.S.Tjoa, Q.A.Ahmed and A.I. da Rocha, *J. Org. Chem.*, 33, 1055 (1968).

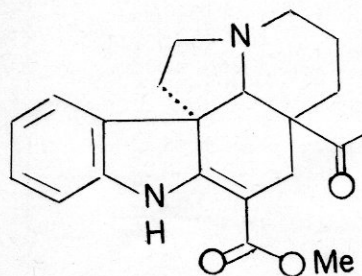
FAMILY :  
Apocynaceae

SPECIES :  
*Tabernaemontana riedelii* M. Arg.

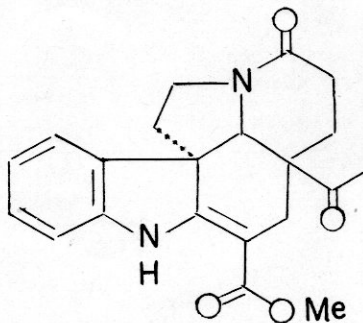
OCCURRENCE : Manaus, Amazonas

TRUNK WOOD :

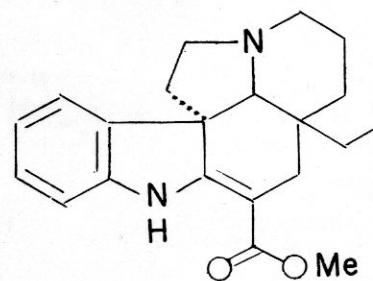
- (+)-minovincine (I)
- (+)-8-oxominovincine (II)
- (+)-vincadiformine (III)
- (±)-vincadiformine (III)



I



II



III

REFERENCE :

M.P.Cava, S.S.Tjoa, Q.A.Ahmed and A.I. da Rocha, *J. Org. Chem.*, 33, 1055 (1968).

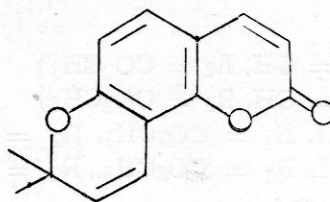
FAMILY :  
Moraceae

SPECIES :  
*Naucleopsis caloneura* (Hub.) Ducke  
"muiratinga"

OCCURRENCE : Manaus, Amazonas

TRUNK WOOD :  
 $\beta$ -sitosterol  
seselin (I)

LEAVES :  
seselin (I)



I

REFERENCE :

M.Alvarenga, R.Braz Filho and O.R.Gottlieb, unpublished data.