

TWO NEW MINOR ALKALOIDS FROM
NEIOSPERMA OPPOSITIFOLIA (APOCYNACEAE)

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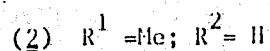
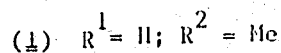
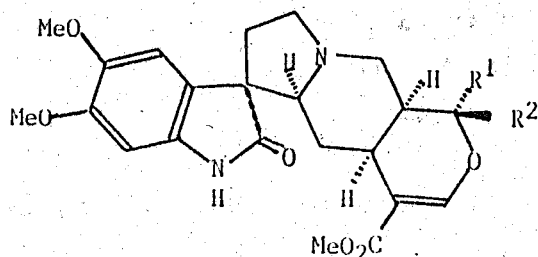
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Neiosperma oppositifolia of the family Apocynaceae has been subjected to several chemical investigations as plants of this genus are widely employed in traditional medicine¹. Previous studies on the bark of N. oppositifolia have revealed the presence of the alkaloids, reserpiline, isoreserpiline, reserpinine, isoreserpinine, ochroposine, ochroposinine, ochrolofuanine, bleekerine, epirauvanine, 10-hydroxyapparacine, 10-methoxyapparacine, 10-methoxydihydrocorynantheol and 9-methoxyellipticine.²⁻⁶

In continuing our interest on minor alkaloids of the family Apocynaceae we have investigated the stem bark of N. oppositifolia and herein we report the isolation of reserpiline, isoreserpiline, ochroposinine, a new oxindole alkaloid named neioposinine (1) and isocarapanaubine (2), an oxindole alkaloid not previously reported from this plant. The structures of these two alkaloids were established with the help of extensive spectroscopic, especially NMR (HOMOCOSY, HETEROCOSY, NOE) analysis.



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References:

- Svoboda, G.A., Poore, G.A. and Monfort, M.I. (1968). J.Pharm.Sci., 57:1720.
 Amarasekera, A.S. and Arambewala, L.S.R. (1986) Fitoterapia, 92:55.
 Peube-Locou, N., Koch, M., Plat, M & Poteir P. (1972) Ann. Pharm. Fr., 30:821.
 Lalarukh, A., Brown, R.T. and Moorcroft, D. (1978), Tetrahedron Letters, 43:4137.
 Poisson, J. and Meit, C. (1967) Ann. Pharm. Fr. 25:523.
 Peube-Locou, N., Koch, M. and Plat, M. (1972) Phytochemistry, 11:2109.