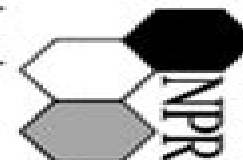


# Recent progress in the chemistry of the monoterpene indole alkaloids

J. Edwin Saxton

School of Chemistry, University of Leeds, Leeds, UK LS2 9JT



Covering: 1996

Previous review: 1996, 13, 327

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## 1 General

Volume 48 in the Manske-Cordell series of monographs includes a very useful survey, by Sévenet and Pouzet, of the alkaloids from the medicinal plants of New Caledonia, which naturally contains reference to a wide range of monoterpene indole alkaloids, and two superb surveys of progress in the chemistry of the *Strychnos* alkaloids during the last seven years (Bosch and his collaborators) and the *Ardisia* alkaloids since 1963 (Eichsberg).<sup>1</sup>

## 2 Monoterpene indole alkaloids

### 2.1 Corynanthine, heteroyohimbine and yohimbine group, and related oxindoles

The bark of *Strychnos nolladira* S. Moore, collected in the Chirinda rain forest of Zimbabwe, contains strictosidine,

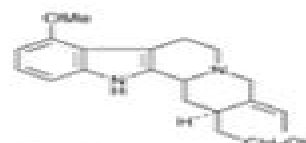
dolichansidine and palicoside,<sup>2</sup> and (16*S*)-(1*E*)-isostirikine is one of twelve alkaloids of the root bark of Tanagerian *Strychnos parguensis* Glig.<sup>3</sup> Its epimer, (16*R*)-(1*E*)-isostirikine, has been isolated, together with (5*S*)-5-methoxycarbonylstrictosidine **1**, from the suspension culture of hybrid cells



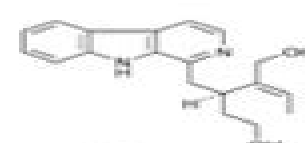
**1** (5*S*)-5-methoxycarbonylstrictosidine

derived from *Rauwolfia serpentina* and *Rauwolfia stricta*; these alkaloids have not been found in either of the parent plants, which thus shows that the function of alkaloid biosynthesis is retained after hybrid formation.<sup>4</sup>

The bark of *Strychnos parguensis* (Aubl.) Mart., collected at Manaus (Brazil), contains<sup>5</sup> 9-methoxygriseoschizol **2**, while its isomer, 10-methoxygriseoschizol, occurs, together with β-yohimbine and two new bisindole alkaloids, in the stem bark and seeds of *Aspidosperma camiflorum* Muell.-Arg., from Porto Ferreira, Brazil.<sup>6</sup>



**2** 9-methoxygriseoschizol



**3** Deppreanol

Deppreanol **3** is a new alkaloid, which has been found in a Brazilian Rubiaceae, *Deppia blumenavensis* Schumann.<sup>7</sup> Its structure was determined by analysis of its NMR spectrum and comparison with that of tetrahydrocagegrine.

Hirsutine, hirsutine and 3*α*-dihydrocagelamine have been isolated from the callus cultures of *Uncaria rhynchophylla* Miq.; this last alkaloid was obtained in amounts 50 times greater than have been observed in the hooks and stems of this plant, which are the active ingredients of the crude drug 'chotoko', used in traditional medicine as a spasmolytic, analgesic and sedative, and for the treatment of a variety of ailments, including hypertension, dizziness, cerebral arteriosclerosis and convulsions.<sup>8</sup>

The roots of *Catharanthus roseus* have again been reported to contain ajmalicine,<sup>9,10</sup> while the stem bark of Panamanian *Strychnos obovata* Benth. contains an unusual mixture of iboga and heteroyohimbine alkaloids, the latter group being represented by ajmalicine and an epimeric mixture of ajmalicine and 17-epiajmalicine **4**; this last alkaloid has not been previously described.<sup>10a</sup>

Edwin came to my room one day and asked for a back issue of *Natural Product Reports*. 'X (a distinguished alkaloid chemist) has just published a paper on an Aspidosperma alkaloid. I need to check, but I am sure he has got the stereochemistry at C-20 wrong.' If you know Edwin and his formidable memory and meticulous attention to accuracy, you will know that he was right about the C-20 stereochemistry.

Edwin has had a distinguished career in alkaloid chemistry, founded in research he did with Sir Robert Robinson and R. B. Woodward. He was first Senior Reporter for the Specialist Periodical Reports on The Alkaloids and here, and later in *Natural Product Reports*, reviewed the indole alkaloids in a scholarly and comprehensive way. He has been the energetic editor of several definitive monographs on the indole alkaloids. If you worked with him on these you were reminded quietly about good English, accurate science and scholarship. Edwin has now decided that this is the last report he will write for NPR. We shall miss his distinguished contributions.

Richard Herbert, July 1997

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