

# Alkaloids from *Sternbergia colchiciflora*

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Z. Naturforsch. **64c**, 311–316 (2009); received November 7, 2008

Twenty-one alkaloids and related compounds were found in *Sternbergia colchiciflora* (Amaryllidaceae), a hitherto not studied plant species. Twenty of them were detected by GC-MS in the crude extracts of this plant species. Ten alkaloids were isolated and their structures confirmed by NMR, MS and CD measurements. Many of the compounds found in this species, such as lycorine, tazettine, haemanthidine, are known to possess strong bio-activity. Variations in the alkaloid pattern were found during the phenological cycle of the plant. Lycorine-type compounds were dominant in the plant organs during both the flowering period and dormancy. The alkaloid pattern during both periods of leaf development and fructification was dominated by haemanthamine-type in the leaves and lycorine-type compounds in the bulbs, respectively.

*Key words:* *Sternbergia colchiciflora*, Amaryllidaceae, Alkaloids, GC-MS