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ABSTRACT

	INVESTIGATION OF <u>PSEUDOELEPHANTOPUS SPICATUS</u>	PAGE
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This thesis describes the phytochemical investigation of four plants.

Part I describes the isolation and identification of stigmasterol and lupeol acetate from Pseudoelephantopus spicatus (Aubl.) Gleason (Compositae). The Jones oxidation of stigmasterol is also discussed. No previous work has been reported on this species or any other of the genus.

Part II describes the isolation and identification of the triterpenes betulinic acid, epifriedelinol ( $\beta$ -friedelinol), friedelin,  $\beta$ -amyrin and lupeol from Clusia rosea Jacq. (Guttiferae). Previous work on this species and the genus is also reviewed.

Part III describes the isolation and investigation of a long chain alcohol mixture from Croton gossypifolius Vahl. (Euphorbiaceae).  $\beta$ -Sitosterol was also isolated from this plant and its isolation and identification is described. Recent investigations of two Croton sp are also discussed.

Part IV describes the isolation and partial structure elucidation of the germacranolide - Compound R from Rolandra fruticosa (L.) Kuntze (Compositae). Subsequently, the isolation of the novel germacranolide acetoxyrolandrolide was reported from the same plant by Herz and co-workers. Compound R was identified with acetoxyrolandrolide. No previous work has been reported on this plant or any other of the genus.