

ABSTRACT**PHYTOCHEMICAL STUDIES ON LUDWIGIA ERECTA****ACKNOWLEDGEMENTS****CHRISTOPHER MATHURA**

This dissertation describes the isolation and structural elucidation of a number of natural products from the plant Ludwigia erecta.

Chapter 1 reviews the existing literature on the chemistry of the family Onagraceae, in addition to the biological studies, folkloric uses and spectroscopic methods employed in the structural elucidation of the compounds isolated from the genus Ludwigia.

Chapter 2 describes the isolation and discusses the detailed structural elucidation of the known compounds trichothecin (XXXIII), deoxycorticosterone (XXXVI), griseofulvin (XXXIX), ferulic acid (XL), caffeic acid (XLI) and (-)-epicatechin (XLIV).

Chapter 3 discusses the possibility of an allelopathic role for the compounds isolated from L. erecta.