Evaluation of Antidiarrhoeal and Toxicol ogical Properties of *Hermannia* incana Cav: A South African Medicinal Plant

Jaipal Reddy Appidi

Eval uation of Antidiarrhoeal and Toxicol ogical Properties of *Hermannia* incana Cav: A South African Medicinal Plant

Jaipal Reddy Appidi

Submitted in ful fil ment of the requirements for the degree of DOCTOR OF PHILOSOPHY: BOTANY (PHYTOMEDICINE)

Department of Botany
Faculty of Science and Agriculture
UNIVERSITY OF FORT HARE

SUPERVISOR: PROF AJ AFOLAYAN

CO SUPERVISOR: PROF DS GRIERSON

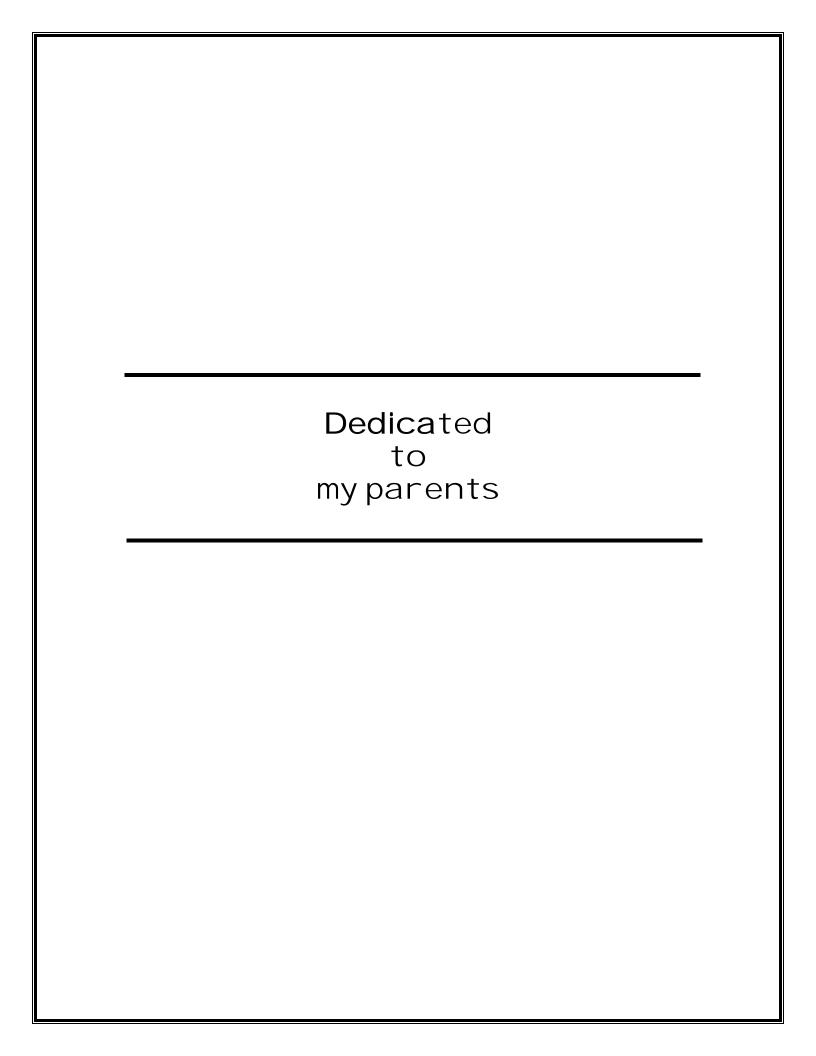


TABLE OF CONTENTS

CF	нартек	Page No
Ge	eneral abstract	i
Int	tellectual property agreement statement	v
1.	General introduction	01
2.	Ethnobotanical study of plants used for the treatment of diarrhoea in the	
	Eastern Cape, South Africa	18
3.	Antimicrobial activity of <i>Hermannia incana</i>	23
4.	Antidiarrhoeal activity of aqueous extract of <i>Hermannia incana</i> Cav.	
	leaves in Wistar rats	39
5.	Toxicological evaluation of aqueous extracts of <i>Hermannia incana</i> Cav.	
	leaves in male Wistar rats	58
6.	The foliar micro-morphology of <i>Hermannia incana</i> Cav	65
7.	Bioactive guided isolation and identification of two flavonoids from	
	Hermannia incana Cav. leaves	72
8.	General discussion and conclusion.	88
9.	Acknowledgements	100
10.	Appendices	102