

CONTENTS

	Page No.
SYNOPSIS	i-xi
CHAPTER-I	Natural 1,4-Naphthoquinones: Highly Useful Scaffolds for the Development of Potent Anti-Cancer Lead Molecules
Introduction to Cancer	1
Natural products as sources of anticancer agents	5
Anticancer drugs from Terrestrial Plant Sources	7
Quinones as anticancer agents	13
Plumbagin	19
Juglone	23
Menadione	27
References	33
CHAPTER-II	Synthesis and Anticancer Activity of Some Novel Juglone Based 5,6-Fused 1,4-Naphthoquinone Hybrids
Introduction	42
Present Work	52
Chemistry	55
Biology	72
Experimental	79
References	89
CHAPTER-III	Novel Menadione Hybrids: Synthesis, Anticancer Activity and Cell Based Studies
Introduction	93
Present Work	106

	Chemistry	106
	Biology	119
	Experimental	128
	References	145
CHAPTER-IV	Synthesis, Anticancer and Anti-inflammatory Activities of 5-O-Alkyl ethers of Juglone and Plumbagin	
	Introduction	149
	Present Work	152
	Chemistry	152
	Biology	157
	Experimental	175
	References	187
CHAPTER-V	Synthesis, Anticancer and Anti-inflammatory Activities of Anilino-quinone and Carbazole-quinone Based Hybrids of Juglone	
	Introduction	189
	Present Work	194
	Chemistry	194
	Biology	210
	Experimental	222
	References	239
	LIST OF PUBLICATIONS	243
	APPENDIX	