

C O N T E N T S

Section I

	Page No.
CHAPTER I : NATURALLY OCCURRING JUVENILE HORMONE MIMICS	1 - 24
JH-mimics with acyclic skeleton	5
JH-mimics with juvabione skeleton	7
Miscellaneous type	15
References	20
CHAPTER II : JH-MIMICS FROM THE WOOD OF <u>CEDRUS DEODARA</u> LOUD.	25 - 76
Introduction	26
JH-activity of wood extractives	27
Present investigation	30
Separation of acids	31
Distilled esters	35
JH activity of isolated esters	46
Chemical constituent of the distilled residues	47
Experimental	49
References	76

CHAPTER III : JH-MIMICS BASED ON BAKUCHIOL	77 - 123
Results	79
Juvenile hormone activity	88
Experimental	90
References	122

CHAPTER IV : SYNTHESIS OF A JH-MIMIC BASED ON (+)-LIMONENE	124 - 164
Introduction	125
Results and discussion	128
Synthesis of C ₁₄ -ketone	134
Synthesis of C ₁₆ -ester	141
Selective epoxidation of C ₁₆ -ester	142
Juvenile hormone activity	143
Experimental	145
References	163

Section II

CHAPTER V : REEVALUATION OF THE NEUTRAL CONSTITUENTS OF <u>CEDRUS DEODARA</u>	165 - 179
Introduction	166
Results and discussion	170
Experimental	174
References	178

CHAPTER VI : TOWARDS LANCEOL SYNTHESIS	180 - 226
Introduction	181
Previous syntheses	181
Present work	188
Experimental	198
References	225
ACKNOWLEDGEMENT	227