CONTENTS

Chapter		Page
I	Introduction	1 - 27
II	Materials and Methods	28 - 49
III	Results : Experimental Design	50 - 55
	Section A: Initiation of Diploid and Haploid callus cultures of Nicotiana tabacum L. var. Anand-2	56 - 58
	<u>Section B-I</u> : Growth and Accumulation of Phenolic compounds in Diploid callus cultures of <u>Nicotiana tabacum L</u>	59 - 70
	Section B-II: Growth and Accumulation of Phenolic compounds in Haploid callus cultures of Nicotiana tabacum L	71 - 81
	Section C-I: Organogenesis in Diploid callus cultures of Nicotiana tabacum L.	82 – 95
	<u>Section C-II:</u> Organogenesis in Haploid callus cultures of <u>Nicotiana tabacum</u> L.	96 -109
	Section D: Physiological Studies with Peroxidase, IAA Oxidase, MDH, PAL, Peroxidase Isoenzymes and Phenolics during Growth of Diploid and Haploid	
	Callus Tissues of <u>Nicotiana tabacum</u> I.	110 -138

^{...}contd...

CONTENTS (contd.)

Chapter					Page	
	Section E: Pheroxidase, IA Peroxidase Iso Diploic and Ho Nicotiana taba Differentiation	AA Oxidase Denzymes a aploid Cal acum L. cu	e, MDH, P and Pheno llus Tiss ultured o	PAL, plics in sues of	139 - 260	
`	Section F: Physiological Studies with peroxidase, IAA Oxidase, MDH, PAL, Peroxidase Isoenzymes and Phenolics in Diploid and Haploid Callus Tissues of Nicotiana tabacum L. cultured on Shoot					
IV	differentiating Discussion	ng medium	•••	•••	261 – 393 394 – 457	
TV ,	Summary .	* • •	• • •	• • •	458-463	
	Bibliography				464 - 5 0 8	
