CONTENTS

CHAPTER		PAGE
	INTRODUCTION	1
I	Histomorphological alterations in the thyroid,	
	adrenal and testes of pigeons treated with	
	pineal indoles and pCPA during the recrudescent	
	phase.	9
II	Alterations in Carbohydrate metabolism and	
	pancreatic islet functions in pigeons treated	
	with pineal indoles and pCPA.	35
III	Melatonin replacement to pinealectomised pigeons	
	in the breeding season is able to restore	
	thyroid and adrenal function but not of testes.	. 47
IV	Carbohydrate metabolism and pancreatic islet	
	functions in pinealectomised pigeons replaced	
	with melatonin in the breeding season.	67
V	Effects of pinealectomy or exogenous melatonin	
	on serum hormone levels and histomorphology of	
	testes, adrenal and thyroid of feral pigeons in	
	the sexualy quiescent phase.	78

VI	Effect of pinealectomy or exogenous melatonin on	
	carbohydrate metabolism and islet function in	
	feral pigeons during the non-breeding season.	94
VII	Functional alterations of testes, adrenal and	
	thyroid in intact and pinealectomised pigeons	
	exposed to long photoperiod prior to the	
	recrudescent phase.	102
	•	
VIII	Alterations in carbohydrate metabolism in intact	
	and pinealectomised pigeons exposed to long	
	photoperiod prior to the recrudescent phase.	129
	•	
IX	Photoperiod-Adrenal interactions on testicular	
	recrudescence in the feral pigeons, Columba	
•	livia.	143
-		
x	Photoperiod-Adrenal interactions on carbohydrate	
	metabolism in the feral pigeons during the	
	recrudescent phase.	168
	Summary	176
	GENERAL CONSIDERATIONS	185
-	Bibliography.	197