

C O N T E N T S

	Page
INTRODUCTION	1
1. Ulcerative disease in air-breathing fishes and isolation of bacteria from ulcer tissues	
Materials and Methods	33
Observations and results	43
Discussion	53
2. Experimental induction of ulcer in fishes, <u>Channa punctatus</u> and <u>Anabas testudineus</u> by bacterial culture	
Materials and Methods	65
Observations and results	66
Discussion	67
3. Histopathological observation of liver, kidney and spleen of experimentally infected fishes, <u>Clarias batrachus</u> and <u>Channa punctatus</u>	
Materials and Methods	70
Observations and results	71
Discussion	74

Contd.....

4.	Effect of bacterial culture on total erythrocyte count and Haemoglobin content in fish, <u>Channa punctatus</u>		
	Materials and Methods ...	...	83
	Observations and Results	...	84
	Discussion ...	...	86
5.	Evaluation of the role of bacteria, R ₁ , R ₂ and R ₃ in causing ulcer disease		
	Materials and Methods...	...	90
	Observations and results	...	91
	Discussion ...	...	94
6.	Drug sensitivity testing and preliminary observation on vaccination by formalin- killed bacteria in mixed condition in fish, <u>Anabas testudineus</u>		
	Materials and Methods ...	...	98
	Observations and results	...	100
	Discussion ...	...	101
7.	Ulcerative disease in Indian major carps and isolation of bacteria from ulcer tissues of <u>Cirrhinus mrigala</u>		
	Materials and Methods ...	...	105
	Observations and Results...	...	107
	Discussion ...	...	113
	SUMMARY ...	...	119
	REFERENCES...	...	127
	ANNEXURE		