

PREFACE

1

In the Zoology Department of S.G.M. College, Karad a research work on histopathology and histochemistry of mucosubstances in some organ systems including digestive system, respiratory system, reproductive system, etc. in normal and under experimental animals, has undertaken since from last two to three years. The studies incorporated in the present dissertation form a part of such research work and concern with the effects of two organophosphorus pesticides on histology and histochemistry of mucosubstances in the gills of fish Channa punctatus. The first chapter is on introduction which includes a brief review of the existing literature on histology, histopathology and histochemistry of mucosubstances in gills of fishes, reasons that stimulated to undertake the present investigation and also outline the plan of the present research work. The second chapter deals with the Material and Methods employed in the present investigation. Chapter third record in detail the general, histological, histopathological and histochemical observations in the gills of C.punctatus. The observations are supplemented with tables and photomicrographs. The last chapter is on discussion in which the results obtained in the present investigation are compared with that of existing literature. The last chapter is followed by summary and concluding remarks. The dissertation ends with the bibliography of the