

## CONTENTS

Introduction	1
1. Diurnal variation in the fat and glycogen contents of the liver of Rosy Pastor during pre- and post-migratory periods.	9
2. Changes in the sodium, potassium and water contents of the liver, muscle and kidney of the Rosy Pastor during different migratory phases	22
3. Levels of calcium and phosphorus in some tissues of the Rosy Pastor during various migratory phases.	37
4. Seasonal changes in the iron content of the liver and muscle of the migratory starling, <u>Sturnus roseus</u> .	48
5. Erythropoiesis and haemoglobin levels in the Rosy Pastor ( <u>Sturnus roseus</u> ) during post- and pre- migratory periods.	59
6. Studies on the lymphocytopoiesis in the liver and spleen of the Rosy Pastor and certain other birds.	73
7. Ascorbic acid content in the liver of Rosy Pastor during the post- and pre- migratory periods.	89
8. Tyrosine level in the serum as an index of thyroid activity in <u>Sturnus roseus</u> during the premigratory period.	99

9. Cholinesterases' activity in the livers of Rosy Pastor and some non - migratory birds.	111
10. Studies on the pectoral muscles of the Rosy Pastor and the House Sparrow.	126
11. General considerations.	142
Summary	156
Bibliography	162