INTRODUCTION

(i) General

(ii) Present state of the knowledge.
   a) Structures and functions of the kidney in normophysiologic conditions.
   b) Inter and intra renal heterogeneity of proximal tubules.
   c) Structure and function of kidney in pathophysiologic situations.

(iii) Scope of this thesis

MATERIAL AND METHODS

(i) Materials

(ii) Methods and Experimental Procedures
   - General Experimental Design
   - Blood Collection
   - Urine Collection
   1. Preparation of homogenates from whole cortex, superficial and juxtamedullary cortices and liver.
   2. Preparation of BBMV from whole cortex, superficial and juxtamedullary cortices.
(iii) Methods for Analyses

A. Serum Deproteination
B. Urine Samples
C. Enzyme Assays
D. Protein Determination
E. Transport
F. Statistical Analysis of the data

RESULTS

DISCUSSION & SUMMARY

BIBLIOGRAPHY

LIST OF PUBLICATIONS/PRESENTATIONS