CONTENTS

INTRODUCTION ............................................................................................................. 1-7

REVIEW OF LITERATURE .............................................................................................. 8-53

   Neuropathic pain
   Etiology
   Functional anatomical aspects of sensory neurons and pain pathway
   Neuropathology of neuropathic pain
   Neurochemistry of neuropathic pain
   Animal models of neuropathic pain
   Management of neuropathic pain
   Pharmacological interventions employed in the study
   Diabetic nephropathy

AIM AND OBJECTIVES ..................................................................................................... 54-56

Chapter 1: Ameliorative effect of telmisartan, azilsartan and ramipril in streptozotocine induced diabetic neuropathy and nephropathy in rats: Possible behavioural, biochemical, electrophysiological and neuroinflammatory evidences

1.1 Introduction
1.2 Materials and Methods
1.3 Results
1.4 Discussion

Chapter 2: Protective effect of retigabine in rat neuropathic pain model: Influence of nitric oxide modulators

2.1 Introduction
2.2 Materials and Methods
2.3 Results
2.4 Discussion

Chapter 3: Ameliorative potential of pioglitazone, ceftriaxone and their interaction in rat model of neuropathic pain: Targeting PPARγ and GLT-1 pathways

94-109

110-130
Chapter 4: Protective mechanism of resveratrol, montelukast and their interaction in spinal nerve ligation induced neuropathic pain: Possible involvement of noradrenaline and serotonin

4.1 Introduction
4.2 Materials and Methods
4.3 Results
4.4 Discussion

SUMMARY AND CONCLUSION ................................................................. 147-150

REFERENCES.............................................................................................. 151-208