Contents

	Page No.
Acknowledgement	i
List of Tables & Figures	vi
Abbreviations	xii
General Introduction	1
Rationale	27
Objectives	28
Materials and Methods	32
Chapter 1: Validation of experimentally induced circadian	47
desynchrony and nonalcoholic steatohepatitis in C57BL/6J mice	
Chapter 2: Inflammatory changes in liver and brain in	71
experimentally induced Chronodisruption and/or Nonalcoholic	
steatohepatitis in C57BL/6J mice	
Chapter 3: Melatonin improves the composition of Gut microbiota	93
in C57BL/6J mice fed with high fat-high fructose diet and/or	
subjected to chronodisruption	
Chapter 4: Comparative account of diurnal and nocturnal	117
behavioral alterations in CD and NASH	
Chapter 5: Evidence on hepatic-hippocampal crosstalk in	143
Chronodisruption and Nonalcoholic Steatohepatitis	
Summary	165
Bibliography	169
Publications	229
National and International Conferences	233
Reprints	237