

## Table of Contents

Abbreviations	5
Summary	6
Zusammenfassung	8
Chapter 1: General introduction	10
Chapter 2: Goals and objectives	31
Chapter 3: Efficacy of the pentamidine analogue, DB75 and its prodrug DB289, against murine models of African sleeping sickness	32
Chapter 4: Efficacy of the novel diamidine compound 2,5-Bis(4-amidinophenyl)-furan-bis-O-Methylamidoxime (Pafuramidine, DB289) against <i>Trypanosoma brucei rhodesiense</i> infection in vervet monkeys after oral administration	46
Chapter 5: Pharmacology of DB844, an orally active aza analogue of pafuramidine, in a monkey model of second stage human African trypanosomiasis	63
Chapter 6: Safety, pharmacokinetic and efficacy studies of DB868 in a first stage vervet monkey model	100
Chapter 7: Chemotherapy of second stage human African trypanosomiasis with parent diamidines or their oral prodrugs: which way to go?	140
Chapter 8: General discussion	172
Chapter 9: Acknowledgements	186
Chapter 10: Curriculum vitae	189