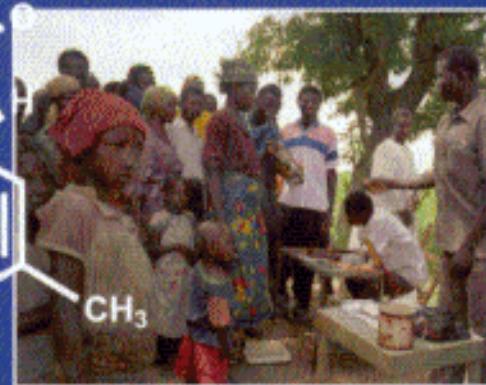
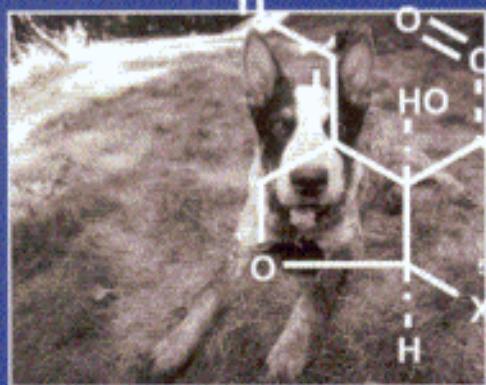
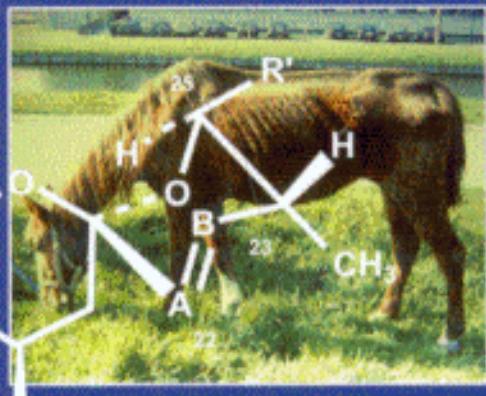
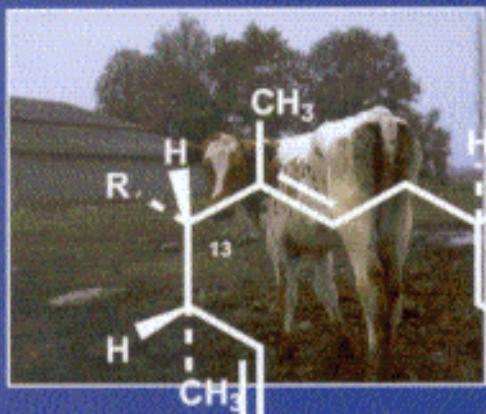


# MACROCYCLIC LACTONES IN ANTIPARASITIC THERAPY



Edited by J. Vercruyse and R.S. Rew

# Contents

<b>Contributors</b>	ix
<b>Preface</b>	xiii
<b>1. Chemistry, Pharmacology and Safety of the Macrocylic Lactones</b>	1
<b>1.1. Ivermectin, Abamectin and Eprinomectin</b> <i>W. Shoop and M. Soll</i>	1
<b>1.2. Doramectin and Selamectin</b> <i>G.A. Conder and W.J. Baker</i>	30
<b>1.3. Milbemycin Oxime</b> <i>M. Jung, A. Saito, G. Buescher, M. Maurer and J.-F. Graf</i>	51
<b>1.4. Moxidectin</b> <i>D.W. Rock, R.L. DeLay and M.J. Gliddon</i>	75
<b>2. Pharmacokinetics of the Macrocylic Lactones: Conventional Wisdom and New Paradigms</b>	97
<i>D.R. Hennessy and M.R. Alvinerie</i>	
<b>3. Mode of Action of the Macrocylic Lactones</b>	125
<i>R.J. Martin, A.P. Robertson and A.J. Wolstenholme</i>	
<b>4. Ecological Impact of Macrocylic Lactones on Dung Fauna</b>	141
<i>J.W. Steel and K.G. Wardhaugh</i>	
<b>5. Resistance Against Macrocylic Lactones</b>	163
<i>R.K. Prichard</i>	

<b>6. The Use of Macroyclic Lactones to Control Parasites of Cattle</b>	183
<b>6.1. General Efficacy of the Macroyclic Lactones to Control Parasites of Cattle</b>	185
<i>J. Vercruyse and R. Rew</i>	
<b>6.2. Use of Macroyclic Lactones to Control Cattle Parasites in Europe</b>	223
<i>J. Vercruyse and R. Rew</i>	
<b>6.3. Use of Macroyclic Lactones to Control Cattle Parasites in the USA and Canada</b>	248
<i>R. Rew and J. Vercruyse</i>	
<b>6.4. Use of Macroyclic Lactones to Control Cattle Parasites in South America</b>	262
<i>C. Eddi, A. Nari and J. Caracostantogolo</i>	
<b>6.5. Use of Macroyclic Lactones to Control Cattle Parasites in Australia and New Zealand</b>	288
<i>P.A. Holdsworth</i>	
<b>7. The Use of Macroyclic Lactones to Control Parasites of Sheep and Goats</b>	303
<i>R.L. Coop, I. Barger and F. Jackson</i>	
<b>8. The Use of Macroyclic Lactones to Control Parasites of Horses</b>	323
<i>C.M. Monahan and T.R. Klei</i>	
<b>9. The Use of Macroyclic Lactones to Control Parasites of Pigs</b>	339
<i>J. Arends and J. Vercruyse</i>	
<b>10. The Use of Macroyclic Lactones in the Control and Prevention of Heartworm and Other Parasites in Dogs and Cats</b>	353
<i>J. Guerrero, J.W. McCall and C. Genchi</i>	
<b>11. The Use of Macroyclic Lactones to Control Parasites of Domesticated Wild Ruminants</b>	371
<i>S.E. Marley and G.A. Conder</i>	
<b>12. The Use of Macroyclic Lactones to Control Parasites of Exotic Pets</b>	395
<i>S.E. Little, C.B. Greenacre and R.M. Kaplan</i>	
<b>13. The Use of Macroyclic Lactones to Control Parasites of Humans</b>	405
<i>K.R. Brown</i>	



- 14. Macrocyclic Lactones as Antiparasitic Agents in the Future** 413  
*T.G. Geary*

- Index** 425