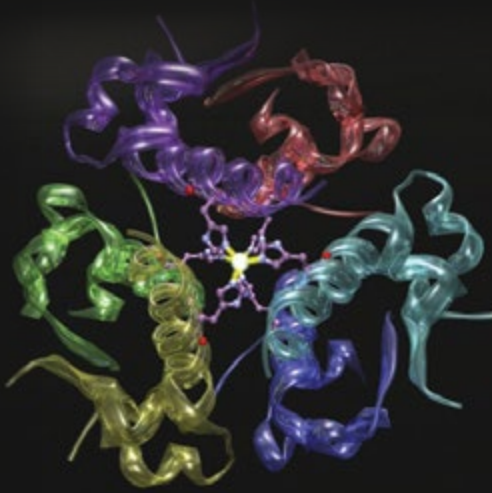


Animals and Medicine

The Contribution of Animal Experiments to the Control of Disease



JACK BOTTING

Contents

List of Illustrations	vii
Foreword <i>Adrian R. Morrison</i>	xii
Introduction <i>Regina Botting</i>	xvii
I. Treatment of Infectious Diseases	
1. Smallpox and After: An Early History of the Treatment and Prevention of Infections	1
2. Rabies	17
3. Lockjaw: Prevalent but Preventable	29
4. Pertussis Vaccine, Unfairly Maligned – At What Cost?	41
5. Vaccination: The Present and Future	51
6. The Conquest of Polio and the Contribution of Animal Experiments	57
7. Diphtheria: Understanding, Treatment and Prevention	65
II. Development of Life-saving Procedures	
8. Development of Dialysis to Treat Loss of Kidney Function	77
9. The Contribution of Animal Experiments to Kidney Transplantation	87
10. Cardiopulmonary Bypass: Making Surgery on the Heart Possible	103
11. Artificial Heart Valves: From Caged Ball to Bioprosthesis	115
12. Animals and Blood Transfusion	127

III. Drugs for Organic Diseases

13. Animal Experiments and the Production of Insulin	141
14. Animals and Humans: Remarkably Similar	155
15. Early Animal Experiments in Anaesthesia	161
16. The Control of Malignant Hypertension	167
17. Penicillin and Laboratory Animals: The Animal Rights Myth	177
18. The History of Thalidomide	183
19. Misleading Research or Misleading Statistics: Animal Experiments and Cancer Research	199
Index	211