

Contents

Introduction to Microbiology, Zoonoses and Antibiotics	1
Steven L. Percival, Jerry S. Knapp, David W. Williams, John Heritage, and Lucy A. Brunton	
Introduction to Biofilms	41
Steven L. Percival, Sladjana Malic, Helena Cruz, and David W. Williams	
Zoonotic Infections: The Role of Biofilms	69
Ana B. García and Steven L. Percival	
Biofilms and Role to Infection and Disease in Veterinary Medicine	111
Alice J. Gardner, Steven L. Percival, and Christine A. Cochrane	
Role of Biofilms in the Oral Health of Animals	129
David W. Williams, Michael A.O. Lewis, Steven L. Percival, Tomoari Kuriyama, Sónia da Silva, and Marcello P. Riggio	
Evidence and Significance of Biofilms in Chronic Wounds in Horses	143
Samantha J. Westgate, Steven L. Percival, Peter D. Clegg, Derek C. Knottenbelt, and Christine A. Cochrane	
Osteomyelitis in the Veterinary Species	175
Peter D. Clegg	
Biofilms and Implication in Medical Devices in Humans and Animals	191
Samuel J. Hooper, Steven L. Percival, Christine A. Cochrane, and David W. Williams	

Bovine Mastitis and Biofilms 205
Marielle B. Melchior

Biofilms and Antimicrobial Resistance in Companion Animals 223
Thomas W. Maddox

Index 253