

CONTENTS

Preface vii

Acknowledgments ix

Authors xi

CHAPTER 1 Fecal Examination for the Diagnosis of Parasitism 3

Collection of Fecal Samples	3
Storage and Shipment of Fecal Samples	4
Fecal Exam Procedures	4
Fecal Flotation	4
Additional Procedures for Fecal Examination	12
Quality Control for Fecal Exam Procedures	15
Use of the Microscope	16
Microscope Calibration	16
Pseudoparasites and Spurious Parasites	19
Identification of Nematode Larvae Recovered with Fecal Flotation or Baermann Procedures	23
Techniques for Evaluation of Strongylid Nematodes in Grazing Animals	28
Fecal Culture	28
Identification of Ruminant and Camelid Third-Stage Larvae	29
Identification of Horse Third-Stage Larvae	30
Fecal Egg Count Reduction Test	30
Identification of Adult Worms	38
Hoyer's Solution	39
Lactophenol	39
Parasites of Domestic Animals	39
Dogs and Cats	40
Ruminants and Camelids	88
Horses	114
Swine	128
Birds	140
Rodents and Rabbits	156
Reptiles	164

Call No.
วัน เดือน ปี
เลขทะเบียน **B5602456**

CHAPTER 2 Detection of Protozoan and Helminth Parasites in the Urinary, Reproductive, and Integumentary Systems and in the Eye 171

Techniques for Parasite Recovery	171
Parasites of the Urinary System	171
Parasites of the Reproductive Tract	171
Helminth Parasites of the Integumentary System	172

Urinary System Parasites	174
Reproductive System Parasites	178
Parasites of Other Systems (Excluding Arthropods)	178
CHAPTER 3 Detection of Parasites in the Blood	185
Immunologic Detection of Blood Parasites	185
Microscopic Examination of Blood for Protozoan Parasites	185
Giemsa Stain	186
Microscopic Examination of Blood for Nematode Parasites	187
Tests for Canine Heartworm Microfilariae in Blood Samples	188
Blood Parasites of Dogs and Cats	191
Blood Parasites of Livestock and Horses	202
Blood Parasites of Birds	208
CHAPTER 4 Immunodiagnostic and Molecular Diagnostic Tests in Veterinary Parasitology	213
Immunodiagnostic Methods	213
Molecular Diagnostic Methods	216
CHAPTER 5 Diagnosis of Arthropod Parasites	217
Subclass Acari (Mites and Ticks)	217
Mite Identification	217
Tick Identification	246
Class Insecta	264
Lice (Orders Anoplura and Mallophaga)	266
Fleas (Order Siphonaptera)	280
Flies (Order Diptera)	288
Other Insects	302
CHAPTER 6 Parasites of Fish	305
Techniques for Recovery of Ectoparasites	305
Skin Biopsy (Mucus Smear)	305
Fin Biopsy (Fin Snip)	306
Gill Biopsy (Gill Snip)	307
Recovery of Endoparasites	307
Parasites of Fish	308
Bibliography	325
Index	327

Companion website

This book is accompanied by a companion website:

www.wiley.com/go/zajac

The website includes powerpoints of all figures from the book for downloading.