

# Gastrointestinal Nematodes of Sheep and Cattle

## Biology and Control

Ian Sutherland and Ian Scott



**WILEY** Blackwell

# Gastrointestinal Nematodes Of Sheep And Cattle Biology

**Conor R. Caffrey**



## **Gastrointestinal Nematodes Of Sheep And Cattle Biology:**

Gastrointestinal Nematodes of Sheep and Cattle Ian Scott, Ian Sutherland, 2009-11-02 A unique resource for all those interested in the impact of worms on livestock the anthelmintics used to get rid of them and the emerging problem of anthelmintic resistance This book provides an over arching view of past present and suggested future strategies for control of gastrointestinal nematode parasites in sheep and cattle The book begins with descriptions of the biology of gastrointestinal nematodes the harm they cause to the host and their economic impact The main body of the book deals with the control of worms focusing on the use of anthelmintic drenches The relationship between drenching practices and the development of drug resistance is discussed as well as resistance management The authors also break new ground by discussing alternative options for worm control including nutritional interventions biological control breeding for desirable genetics and artificially improving immunity to infection They also offer useful recommendations for program development

**Genetic differences in resistance to gastrointestinal nematodes in different sheep breeds under conditions of natural infection** Ahmed Idris, 2011-08-15 The objectives of the present study were to determine the prevalence of gastrointestinal nematodes GIN in naturally infected lambs of five sheep breeds based on individual faecal egg counts FEC in Germany and to evaluate the predictable influence of birth type age sex and breed of lambs on the excretion of nematode eggs in the faeces Furthermore the use of potential infection indicator traits such as the dag score DS the faecal consistency FCS the body condition BCS and the FAMACHA either separately or combined to detect individually lambs in need for drenching when exposed to natural nematode infections was investigated Additionally the possibility of breeding for resistance against GIN in German sheep breeds directly based on faecal egg counts FEC or indirectly by using DS FCS BCS and FAMACHA was also evaluated Moreover the relationships between the nematode infection with *Haemonchus contortus* and body and organ measurements of lambs were estimated The field trials under natural conditions of nematode infections Chapters II III and IV were carried out on 3 924 lambs of different breeds aged from 3 to 15 months The breeds used were Merinoland ML German Blackhead Mutton GBM Texel TX Rhoeen RH and Merino long wool MLW Data collection took place on various farms The samples were collected once during the grazing seasons in 2006 2007 and 2008 At the time of faecal sample collection the FAMACHA score the BCS the DS and FCS were additionally determined and served as potential infection indicator traits The lambs were not dewormed at least 45 days before the sampling time Sixty three percent of the lambs were infected with GIN The infections were mostly low to moderate and involved different species *Trichostrongylus* spp were the predominant species based on the percentage of larvae in the faecal cultures Only 11 4% of faecal samples were *Eimeria* oocysts free Tapeworm eggs were encountered in 13 2% of all samples The farms affected the prevalence of GIN infections significantly  $P < 0.001$  Significantly higher FECs  $P < 0.001$

**The Biology of Nematodes** Donald L Lee, 2002-01-10 The Biology of Nematodes synthesizes literature on free living plant parasitic and animal parasitic nematodes Topics covered include systematics and phylogeny neuromuscular

physiology locomotion sense organs behavior aging the nematode genome survival strategies immunology structure and organization gametes and fertilization and feeding and metabolism This volume the most authoritative available includes contributions from researchers working on groundbreaking molecular techniques leading to new approaches in the study of nematode worms It provides an important resource for research scientists working in a number of agricultural medical and biological fields

**Ruminant Parasitology, An Issue of Veterinary Clinics of North America: Food Animal Practice**

Ray M. Kaplan, 2020-02-07 This issue of Veterinary Clinics Food Animal Practice guest edited by Dr Ray M Kaplan focuses on Ruminant Parasitology This is one of three issues each year selected by the series consulting editor Dr Robert A Smith Articles in this issue include but are not limited to biology and epidemiology of GI nematode parasites in cattle epidemiology and control of GI parasites of cattle in southern climates epidemiology and control of GI parasites of cattle in northern climates anthelmintic resistance and strategies for sustainable control of parasites refugia based strategies for parasite control in livestock epidemiology and control of liver flukes diagnostic methods in livestock parasitology parasite vaccines what Modeling parasites transmission and resistance can teach us fecal egg count reduction tests in cattle and small ruminants ectoparasites of ruminants ruminant coccidiosis neosporosis toxoplasmosis and sarcocystosis in ruminants giardiasis and cryptosporidiosis in ruminants biology epidemiology and control of GI nematodes in small ruminants and realistic approaches to parasite control in ruminant livestock

*Parasites of Cattle and Sheep* Andrew B. Forbes, 2020-11-17

Understanding parasite biology and impact is essential when giving advice on parasite control in farm animals In the first review devoted to parasites of domestic cattle and sheep alone this book provides in depth focused advice which can be tailored to individual farms It considers the impact of parasites both as individual species and as co infections as well as epidemiological information monitoring and diagnostic procedures Supported throughout by diagrams and photos to aid diagnosis it also reviews the basis for control measures such as the responsible use of parasiticides adaptive animal husbandry and other management practices

**Organ-specific Parasites in Cattle** Tanmoy Rana, 2025-04-23

Organ specific Parasites in Cattle explores parasitic diseases affecting various organs in cattle offering a deep dive into their diagnosis treatment and prevention The book provides valuable insights into the etiology symptoms and pathophysiology of parasitic infections across critical organ systems including the gastrointestinal tract urogenital system circulatory system and more With an emphasis on the latest research it highlights advanced diagnostics histopathological techniques and the development of antiparasitic drugs and vaccines Readers will gain a thorough understanding of host parasite interactions resistance mechanisms and effective control strategies all presented with detailed explanations and visual aids Designed to serve as a key reference this book is essential for students researchers veterinary practitioners and academicians aiming to deepen their knowledge in parasitology and animal health Key Features Comprehensive coverage of organ specific parasitic diseases in cattle Detailed focus on diagnosis treatment and preventive strategies Latest advancements in anti parasitic

drugs and vaccines      *Haemonchus Contortus and Haemonchosis - Past, Present and Future Trends* ,2016-05-27

*Haemonchus Contortus and Haemonchosis Past Present and Future Trends* the latest in the *Advances in Parasitology* series first published in 1963 contains comprehensive and up to date reviews on all areas of interest in contemporary parasitology The series includes medical studies of parasites of major influence such as *Plasmodium falciparum* and trypanosomes The series also contains reviews of more traditional areas such as zoology taxonomy and life history which help to shape current thinking and applications The 2014 impact factor is 6.226 Informs and updates on all the latest developments in the field of parasitology Contains contributions from leading authorities and industry experts      **Veterinary Medicine** Peter D.

Constable, Kenneth W Hinchcliff, Stanley H. Done, Walter Gruenberg, 2016-10-25 Treat the diseases affecting large animals *Veterinary Medicine* 11th Edition provides up to date information on the diseases of horses cattle sheep goats and pigs Comprehensive coverage includes the principles of clinical examination and making a diagnosis along with specific therapy recommendations For easier use this edition has been divided into two volumes and restructured into a logical anatomically based approach to disease From internationally known veterinary experts Peter Constable Kenneth Hinchcliff Stanley Done and Walter Gruenberg this book is the definitive one stop reference for farm animal and equine care Comprehensive coverage includes information essential to any large animal veterinarian especially those working with horses cattle sheep goats or pigs Coverage of diseases addresses major large animal diseases of all countries including foreign animal and emerging diseases User friendly format makes it easier to quickly absorb key information Quick review synopsis sections make important information on complex diseases easy to find NEW Convenient easy access format is organized by organ systems and divides the content into two compact volumes with the same authoritative coverage Nearly 200 new color photographs and line drawings are included in this edition NEW full color design improves navigation clarifies subject headings and includes more boxes tables and charts for faster reference New Diseases Primarily Affecting the Reproductive System chapter is added Updated and expanded chapter on pharmacotherapy lists therapeutic interventions and offers treatment boxes and principles of antibiotic use Expanded sections on herd health include biosecurity and infection control and valuable Strength of Evidence boxes NEW or extensively revised sections include topics such as the Schmallenberg and Bluetongue viral epidemics of ruminants in Europe Wesselbron disease in cattle hypokalemia in adult cattle equine multinodular pulmonary fibrosis Hendra virus infection porcine reproductive and respiratory syndrome torque teno virus and numerous recently identified congenital and inherited disorders of large animals Additional content is provided on lameness in cattle and the diseases of cervids      *Parasitic Helminths* Conor R. Caffrey, 2012-05-24 This third volume in the successful *Drug Discovery in Infectious Diseases* series is the first to deal with drug discovery in helminthic infections in human and animals The result is a broad overview of different drug target evaluation methods including specific examples of successful drug development against helminthes and with a whole section devoted to vaccine development With its well balanced mix of

high profile contributors from academia and industry this handbook and reference will appeal to a wide audience including parasitologists pharmaceutical industry epidemiologists and veterinary scientists Evolutionary Mechanisms of Infectious Diseases Yufeng Wang,Zhan Zhou,Jiaying Gu,2021-07-08 **Goat Science - From Keeping to Precision Production** Sándor Kukovics,2023-09-13 The goat is one of the earliest domesticated species and has great significance for the world economy This book provides a comprehensive overview of goat husbandry It includes thirteen chapters that address such topics as breeding genetics reproduction health nutrition and more Trypanosomatid Diseases Timo Jäger,Oliver Koch,Leopold Flohé,2013-03-19 This is the first resource to provide researchers in academia and industry with an urgently needed update on drug intervention against trypanosomatides As such it covers every aspect of the topic from basic research findings via current treatments to translational approaches in drug development and includes both human and livestock diseases The outstanding editor and contributor team reads like a Who's Who of the field thus guaranteeing the outstanding quality of this ready reference **Stochastic Processes with Applications** Antonio Di Crescenzo,Claudio Macci,Barbara Martinucci,2019-11-28 Stochastic processes have wide relevance in mathematics both for theoretical aspects and for their numerous real world applications in various domains They represent a very active research field which is attracting the growing interest of scientists from a range of disciplines This Special Issue aims to present a collection of current contributions concerning various topics related to stochastic processes and their applications In particular the focus here is on applications of stochastic processes as models of dynamic phenomena in research areas certain to be of interest such as economics statistical physics queuing theory biology theoretical neurobiology and reliability theory Various contributions dealing with theoretical issues on stochastic processes are also included *Gene Regulation Explored by Systems Biology in Livestock Science* Andressa Oliveira De Lima,Priyanka Banerjee,Aline Silva Mello Cesar,2022-04-27 *Agricultural research service, Commodity exchange authority, Consumer and marketing service, Cooperative state research service, Economic research service, Extension service, Foreign agricultural service, International agricultural development service, Soil conservation service, Statistical reporting service* United States. Congress. House. Committee on Appropriations,1967 **Biological & Agricultural Index**,1997 Antimicrobial Drug Resistance Douglas L. Mayers,Jack D. Sobel,Marc Ouellette,Keith S. Kaye,Dror Marchaim,2017-06-19 The two volumes included in Antimicrobial Drug Resistance Second Edition is an updated comprehensive and multidisciplinary reference covering the area of antimicrobial drug resistance in bacteria fungi viruses and parasites from basic science clinical and epidemiological perspectives This newly revised compendium reviews the most current research and development on drug resistance while still providing the information in the accessible format of the first edition The first volume Antimicrobial Drug Resistance Mechanisms of Drug Resistance is dedicated to the biological basis of drug resistance and effective avenues for drug development With the emergence of more drug resistant organisms the approach to dealing with the drug resistance problem must include the research of different

aspects of the mechanisms of bacterial resistance and the dissemination of resistance genes as well as research utilizing new genomic information These approaches will permit the design of novel strategies to develop new antibiotics and preserve the effectiveness of those currently available The second volume Antimicrobial Drug Resistance Clinical and Epidemiological Aspects is devoted to the clinical aspects of drug resistance Although there is evidence that restricted use of a specific antibiotic can be followed by a decrease in drug resistance to that agent drug resistance control is not easily achieved Thus the infectious diseases physician requires input from the clinical microbiologist antimicrobial stewardship personnel and infection control specialist to make informed choices for the effective management of various strains of drug resistant pathogens in individual patients This 2 volume set is an important reference for students in microbiology infectious diseases physicians medical students basic scientists drug development researchers microbiologists epidemiologists and public health practitioners

**Prospects of Fungal Biotechnologies for Livestock Volume 1** Arti Gupta, 2025-08-24 This multi volume set covers a great amount of research done on fungal infection emphasizing relevant data in the discussion It is intended to address the major causes of fungal biotechnological aspects while bringing in the most recent data concerning discoveries in livestock management Each volume in the set will give readers the necessary information complemented by areas of focus of the accompanying volumes The set covers topics spanning from basic concepts to health management to engineering using cell lines and approaching bioprocess technology with a particular focus on recent developments Volume 1 discusses the different ways in which fungal biotechnologies can be used to improve livestock health including through the use of probiotics and biocontrol agents How assisted reproduction technologies have played a crucial role in enhancing livestock production from a domestic practice to a commercial enterprise is addressed in this publication The book also delves into the current therapy applied to deal with fungal infections as well as innovations in the livestock field Lastly this book touches upon the potential economic benefits that these biotechnologies can bring to farmers and stakeholders

Department of Agriculture Appropriations United States. Congress. House. Committee on Appropriations, 1968

Department of Agriculture and Related Agencies Appropriations for 1968 United States. Congress. House. Committee on Appropriations, 1967

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