

1. Record Nr.	UNINA9910876726503321
Titolo	Human and Animal Filariases: Landscape, Challenges, and Control
Pubbl/distr/stampa	Wiley-VCH, 2022 Weinheim, Germany : , : Wiley, , [2023]
ISBN	3-527-82341-7 3-527-82342-5 3-527-82343-3
Edizione	[1st]
Descrizione fisica	1 online resource
Collana	Drug Discovery in Infectious Diseases
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Disciplina	595.7857
Soggetti	Filarial worms Filariasis Parasitic diseases Parasitology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Human and Animal Filariases The rational approach to controlling human and animal diseases caused by nematodes Filariae are a family of parasitic worms which infect animals and humans, causing severe diseases such as elephantiasis (lymphatic filariasis) and river blindness (onchocerciasis) in humans, as well as heartworm disease (dirofilariasis) in dogs and cats. While the human diseases are rarely fatal, the blindness and disfiguration resulting from these infections constitute a severe burden for the affected individuals and to the healthcare systems in many tropical countries. In 2017, the World Health Organization classified several filariases as neglected tropical diseases and announced a new program seeking to eradicate these infections, which has in turn sparked a new push to develop antifilarial drugs. Considering the current and future import of this topic, Human and Animal Filariases takes a comprehensive look at infections by filarial

parasites in humans and in animals. It begins by reviewing the current state of diagnosis and chemotherapy, before addressing the increasing resistance to available antifilarial drugs. This is followed by strategies and approaches for the discovery of novel drugs and finally by looking at alternative and supplementary approaches to combat the parasites, including vector control and vaccination. Human and Animal Filariases readers will find: A comprehensive approach that integrates current chemotherapy with recent advances in antifilarial drug discovery Practical information on assay development, target validation, and required drug product profiles Insights from global experts from leading academic institutions as well as from pharma and healthcare companies Human and Animal Filariases is a unique reference for parasitologists, veterinarians, as well as professionals in the pharmaceutical industry and in public health agencies.
