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Nota di contenuto	Strategies & Resistance. Comparison of Anti-ectoparasite and Anti-endoparasite Therapies and Control Strategies / Debra J Woods, Tom L McTier, Andrew A DeRosa -- Vaccination Against Ticks / Theo PM Schettters -- Blocking Transmission of Vector-borne Diseases / Sandra Schorderet-Weber, Sandra Noack, Paul M Selzer, Ronald Kaminsky -- The Threat and Reality of Drug Resistance in the Cattle Tick Rhipicephalus (Boophilus) microplus / Heinz Sager, Leonore Lovis, Christian Epe, Ronald Kaminsky -- Monitoring Drug Sensitivity in Cattle Ticks / Leonore Lovis, Christian Epe, Ronald Kaminsky, Heinz Sager -- New Developments in the Control of Human Lice / John M Clark -- Screens & Models. Molecular Targets to Impair Blood Meal Processing in Ticks / Petr Kopacek, Jan Perner, Daniel Sojka, Radek Sima, Ondrej Hajdusek -- Whole-organism Screens for Ectoparasites / Jeffrey N Clark, Cedric J Pearce -- In vitro Feeding Methods for Hematophagous Arthropods and Their Application in Drug Discovery / Ard M Nijhof, Katharine R Tyson -- Testing in Laboratory Animal Models for Ectoparasiticide Discovery and Development / Sandra Schorderet-Weber, Ronald Kaminsky -- Testing in Target Hosts for Ectoparasiticide Discovery and Development / Jeffrey N Clark -- Isoxazolines.

Isoxazolines: A Novel Chemotype Highly Effective on Ectoparasites / Tina Weber, Paul M Selzer -- The Discovery of Afoxolaner: A New Ectoparasiticide for Dogs / Ming Xu, Jeffrey K Long, George P Lahm, Wesley L Shoop, Daniel Cordova, Ty Wagerle, Ben K Smith, Thomas F Pahutski, Rafael Shapiro, Michael Mahaffey, Eric J Hartline, Brandon R Gould, Molly E Waddell, Richard G McDowell, John B Kinney, Gail S Jones, Robert F Dietrich, Mark E Schroeder, Daniel F Rhoades, Eric A Benner, Pat N Confalone -- Development of Afoxolaner as a New Ectoparasiticide for Dogs / Laura Letendre, Diane Larsen, Mark Soll -- Discovery, Development, and Commercialization of Sarolaner (Simparica®), A Novel Oral Isoxazoline Ectoparasiticide for Dogs / Debra J Woods, Tom L McTier -- Isoxazolines: Preeminent Ectoparasiticides of the Early Twenty-first Century / Alan Long.

Sommario/riassunto

This first book specifically dedicated to ectoparasite drug discovery is unique in providing insights from the veterinary as well as the medical perspective, covering research from both industry and academia while paving the way for new synergies between the two research communities. Edited by a team combining 80 years of experience in academic research and industrial antiparasitic drug discovery, this volume of Drug Discovery in Infectious Diseases summarizes current knowledge in this rapidly expanding field. Comprehensive yet concise, this ready reference blends solid background information on ectoparasite biology with the very latest methods in ectoparasite drug discovery. Three major parts cover current ectoparasite control strategies and the threat of drug resistance, screening and drug evaluation, and the new isoxazoline class of ectoparasiticides. The future potential of mechanism-based approaches for repellents and parasiticides is thoroughly discussed, as are strategies for vaccines against ectoparasites, making the book ideal for parasitologists in academia as well as researchers working in the pharmaceutical industry.
