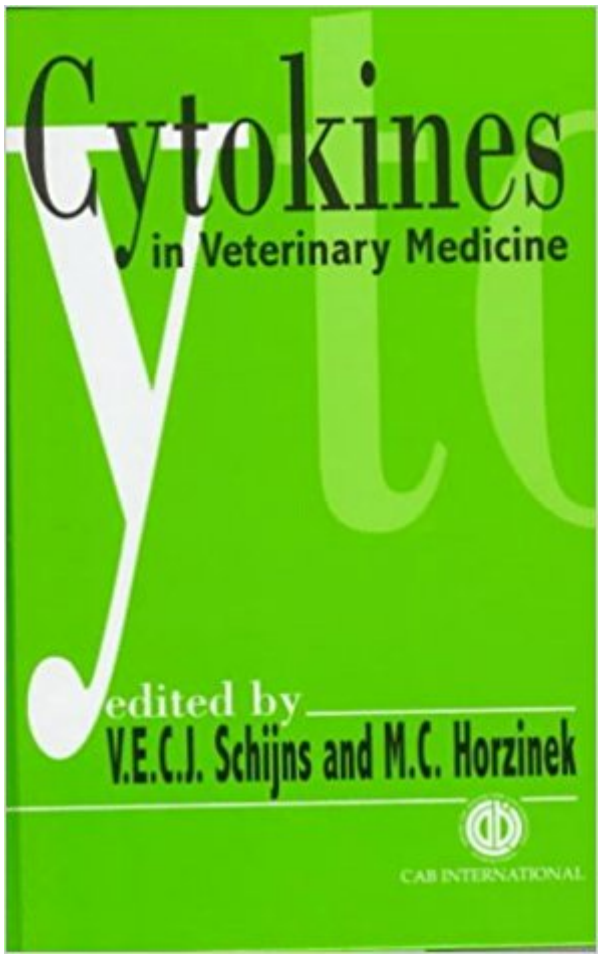
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Cytokines In Veterinary Medicine



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Synopsis

Cytokines are regulatory proteins that act as intercellular communication signals in a variety of processes, including embryonic development, haematopoiesis, stress, inflammation, immunity and tissue repair. Studies since the early 1980s have established the vital role of cytokines in humans and rodent models for the immune, endocrine and neuronal systems. More recently, attention has turned to the cytokines of animals of veterinary importance. This book addresses basic research on cytokines and its clinical potential for veterinary medicine. Cytokines in cattle, sheep, pigs, horses, cats, dogs and birds are considered. It is shown how recent knowledge has exploded, particularly through the use of recombinant DNA and PCR technologies. The role of cytokines in the pathogenesis, diagnosis and therapy of animal diseases is reviewed, as is the utility of animal models to investigate diseases analogous to those in humans. It is shown how measurements of cytokines might be used as immunological monitors of disease progression and prognosis, how their administration to production animals might improve health status and how they might be used as vaccine adjuvants or as adjuncts to chemotherapy. Written by leading authorities from Europe, North America, Africa and Australia, the book is essential for research workers in veterinary microbiology and immunology, as well as medical scientists interested in applying this work to human health.

Book Information

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Customer Reviews

"This volume provides a detailed, up-to-date overview of cytokine biology in a variety of veterinary

species. Recent advances and information concerning the molecular characterization of cytokines and how these proteins can be used to modulate important host responses to disease are addressed. The latest information on the role of cytokines in the pathogenesis, diagnosis, and therapy of animal diseases is reviewed for both food production and companion animals. This informative book not only explores the potential clinical applications of cytokines to control diseases affecting cattle, sheep, pigs, birds, horses, cats and dogs, but also presents the potential utility of veterinary models to investigate diseases of biomedical significance. This comprehensive volume is a practical guide to veterinary cytokine biology, and provides a framework for scientists working in the field."--The Quarterly Review of Biology

Marian C. Horzinek, both in the Virology Unit, Department of Infectious Diseases and Immunology, Faculty of Veterinary Medicine, both at Utrecht University.

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