

# The Immunology of Host-Ectoparasitic Arthropod Relationships

*Edited by Stephen K Wikel, Department of Entomology, Oklahoma State University, USA*

Host immune responses to ectoparasitic arthropods are critical elements in determining the nature of animal host-arthropod relationships, including transmission of vector-borne pathogens. This is the first book to provide a comprehensive analysis for both the student and specialist of the emerging field of "immunoentomology". Our fundamental understanding of this topic has increased dramatically in recent years. Chapters prepared by specialists from the USA, UK and Australia provide comprehensive reviews of key subjects. The book concludes with a consideration of the application of fundamental knowledge about the immunology of the host-arthropod interface to the development of anti-arthropod vaccines. It is aimed particularly at medical and veterinary entomologists and acarologists, as well as immunologists.

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- Mouthparts and Feeding Mechanisms of Haematophagous Arthropods *D K Bergman, Oklahoma State University, USA*
- Salivary Gland Physiology of Blood-feeding Arthropods *J R Sauer, A S Bowman, J L McSwain, and R C Essenberg, Oklahoma State University, USA*
- Pharmacology of Haematophagous Arthropod Saliva *D E Champagne and J G Valenzuela, University of Arizona, USA*
- Arthropod Modulation of Host Immune Responses *S K Wikel and D K Bergman, Oklahoma State University, USA*
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- Immunological-based Control of Blood-feeding Arthropods *S K Wikel, D K Bergman and R N Ramachandra, Oklahoma State University, USA*
- A Synthesis of Current Concepts Regarding the Immunology of the Host-Arthropod Interface *S K Wikel, Oklahoma State University, USA*

**Readership:** *Medical and veterinary entomologists and acarologists, as well as immunologists.*

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