

# Biology of Ticks, Volumes I and II Second Edition

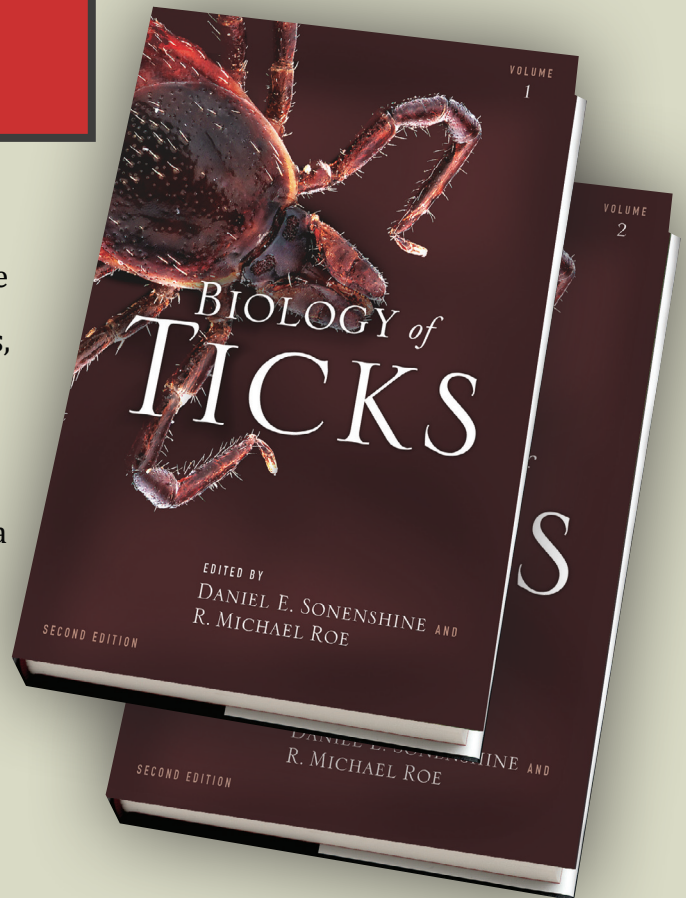
Daniel E. Sonenshine and R. Michael Roe

SAVE 20%  
WITH PROMO CODE  
32401

*Biology of Ticks* is the most comprehensive work on tick biology and tick-borne diseases. This second edition is a multi-authored work, featuring the research and analyses of renowned experts across the globe. Spanning two volumes, the book examines the systematics, biology, structure, ecological adaptations, evolution, genomics and the molecular processes that underpin the growth, development and survival of these important disease-transmitting parasites. Also discussed is the remarkable array of diseases transmitted (or caused) by ticks, as well as modern methods for their control. This book should serve as a modern reference for students, scientists, physicians, veterinarians and other specialists.

**DR. DANIEL E. SONENSHINE** is an eminent professor emeritus of Biological Sciences at Old Dominion University in Norfolk, Virginia USA.

**DR. R. MICHAEL ROE** is the William Neal Reynolds Distinguished Professor of Entomology at the North Carolina State University in Raleigh, North Carolina USA.



**Volume I** covers the biology of the tick and features chapters on tick systematics, tick life cycles, external and internal anatomy, and others dedicated to specific organ systems, specifically, the tick integument, mouthparts and digestive system, salivary glands, waste removal, salivary glands, respiratory system, circulatory system and hemolymph, fat body, the nervous and sensory systems and reproductive systems.

Nov 2013 • 560 pp. • Hardcover  
9780199744053 • \$150.00/\$120.00

**Volume II** includes chapters on the ecology of non-nidicolous and nidicolous ticks, genetics and genomics (including the genome of the Lyme disease vector *Ixodes scapularis*) and immunity, including host immune responses to tick feeding and tick-host interactions, as well as the tick's innate immune system that prevents and/or controls microbial infections.

Dec 2013 • 496 pp. • Hardcover  
9780199744060 • \$150.00/\$120.00

**OXFORD**  
UNIVERSITY PRESS

Grubhoffer L., Rudenko N., Vancova M., Golovchenko M., Sterba J:  
CIRCULATORY SYSTEM AND HEMOLYMPH, Structure, Physiology  
and Molecular Biology. *In*: D. E. Sonenshine & R. M. Roe (Eds.):  
Biology of Tick, Vol. I, 2nd Edition, Chapter 11, p. 258-286.