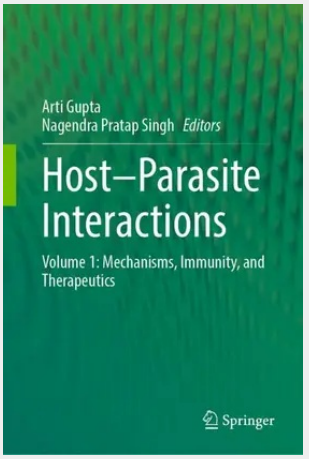
Gupta / Singh

Host–Parasite Interactions

Volume 1: Mechanisms, Immunity, and Therapeutics



The book explores the relationship between parasites and their hosts, explaining how parasites survive, spread, and impact health. The book provides a clear understanding of parasite biology, life cycles, and their effects on humans, animals, and the environment. It brings together information from different areas like microbiology, immunology, and epidemiology, to offer a complete picture of parasitic diseases and their management. The book covers key topics, starting with an introduction to parasitology and host-parasite interactions. It then explains parasite life cycles, their role in ecosystems, and different ways to classify them. It discusses how parasites are identified using traditional and modern methods, such as molecular techniques. Chapters cover other important topics like diagnosing parasitic diseases, strategies to control infections, and real-world case studies. The book also looks at new research and developments in parasitology. This book is useful for researchers, professionals and students in biology, medicine, veterinary sciences, and public health. It can be used as a textbook for learning, a reference for research, or a practical guide for disease control.

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