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Nota di contenuto	Part 1. Evolutionary Patterns -- 1. How to Grow a Bat Wing -- 2. Time's Arrow in the Evolutionary Development of Bat Flight -- 3. Evolution of Echolocation -- 4. Nasal Emission and Noseleaves -- 5. Bat Facial and Lip Projections: Unique Integumentary Morphology -- 6. Bat Molecular Phylogenetics: Past, Present, and Future Directions -- 7. Of Bats and Molecules: Chromosomal Characters for Judging Phylogenetic Relationships -- Part 2. Ecology and Behaviour -- 8. Aeroecology -- 9. Response of Bat Diversity to Forest Disturbance in Southeast Asia: Insights from Long-term Research in Malaysia -- 10. Modeling the Colonization of Hawaii by Hoary Bats (Lasiurus cinereus) -- 11. Learning and Memory in Bats: A Case Study on Object Discrimination in Flower-visiting Bats -- 12. Cooperation and Conflict in the Social Lives of Bats -- 13. Decision Making and Socioemotional Vocal Behavior in

Bats -- 14. New Advances in the Study of Group Behavior in Bats -- 15. Recent Advances in the Study of Bat Migration Research -- 16. Speciation Dynamics of the Fruit-eating Bats (Genus Artibeus): With Evidence of Ecological Divergence in Central American Populations -- Part 3. Conservation and Education -- 18. Considering Human Development, Socialization, and Enculturation in Educational Intervention for Wildlife Conservation: A Case for Bats -- 19. Threats to Bats and Educational Challenges -- 20. Virology and Immunology of Bats -- 20. White-nose Syndrome: A Deadly Emerging Infectious Disease of Hibernating Bats -- 21. Impacts of Wind Energy Development on Bats: Implications for Conservation -- 22. Response of Bats to Climate Change: Learning from the past and Predicting the Future -- 23. Challenges of Using Bioacoustics to Globally Monitor Bats -- 24. On Estimating the Economic Value of Insectivorous Bats: Prospects and Priorities for Biologists -- 25. Bat Conservation: Past, Present and Future.

Sommario/riassunto

Recent advances in the study of bats have changed the way we understand this illusive group of mammals. This volume consist of 25 chapters and 57 authors from around the globe all writing on the most recent finding on the evolution, ecology and conservation of bats. The chapters are not intended to be exhaustive literature reviews, but instead extended manuscripts that bring new and fresh perspectives. Many chapters consist of previously unpublished data and are repetitive of new insights and understanding in bat evolution, ecology and conservation. New perspectives are provided on many aspects of bat biology, evolution, morphology, development, natural history, cognition and behavior, emotions, formation flight, migration, dispersal to islands, emerging viruses, white-nose syndrome, speciation, bats and the human dimension, educational and conservation challenges, global monitoring, economic value, and the state of global bat populations. This book will be of interest to students, professional biologists, wildlife managers, conservationists, educators, environmental consultant, and anyone else interested in the broad and rich array of topics brought to date in this volume.