Introducing the Foundation Chair of the New Division of Ecoimmunology and Disease Ecology

Lynn B. Martin, Raoul K. Boughton and Daniel R. Ardia

Methods and Mechanisms in Ecoimmunology
Organized by C. J. Downs, J. S. Adelman, and G. E. Demas

Mechanisms and Methods in Ecoimmunology: Integrating Within-Organism and Between-Organism Processes
C. J. Downs, J. S. Adelman and G. E. Demas

The History of Ecoimmunology and Its Integration with Disease Ecology
Patrick M. Brock, Courtney C. Murdock and Lynn B. Martin

Insights from Parasite-Specific Serological Tools in Eco-Immunology
Romain Garnier and Andrea L. Graham

Using Remote Biomonitoring to Understand Heterogeneity in Immune-Responses and Disease-Dynamics in Small, Free-Living Animals
James S. Adelman, Sahnzi C. Moyers and Dana M. Hawley

The Metabolic Pace-of-Life Model: Incorporating Ectothermic Organisms into the Theory of Vertebrate Ecoimmunology
Franziska C. Sandmeier and Richard C. Tracy

Methods for Quantifying Gene Expression in Ecoimmunology: From qPCR to RNA-Seq
Carol A. Fassbinder-Orth

Testing Hypotheses in Ecoimmunology Using Mixed Models: Disentangling Hierarchical Correlations
C. J. Downs and N. A. Dochtermann

The Effects of Stress Hormones on Immune Function May be Vital for the Adaptive Reconfiguration of the Immune System During Fight-or-Flight Behavior
Shelley A. Adamo

Genomic Studies of Disease-Outcome in Host–Pathogen Dynamics
Ana V. Longo, Patricia A. Burrowes and Kelly R. Zamudio

Theme and Variations: Heterothermy in Mammals
Organized by Sandra L. Martin and Anne D. Yoder

Theme and Variations: Heterothermy in Mammals
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Effect of Body Mass on Hibernation Strategies of Woodchucks (Marmota monax)
Stam M. Zervanos, Christine R. Maher and Gregory L. Florant

Comparative Genomics of Mammalian Hibernators Using Gene Networks
José Luis Villanueva-Cañas, Sheena L. Faherty, Anne D. Yoder and M. Mar Alba

Endocrine Regulation of Bone and Energy Metabolism in Hibernating Mammals
Alison H. Doherty, Gregory L. Florant and Seth W. Donahue
The Evolution of Mammalian Hibernation: Lessons from Comparative Acid-Base Physiology
André Malan

Organ Protective Mechanisms Common to Extremes of Physiology: A Window through Hibernation Biology
Quintin J. Quinones, Qing Ma, Zhiquan Zhang, Brian M. Barnes and Mihai V. Podgoreanu

Torpor during Reproduction in Mammals and Birds: Dealing with an Energetic Conundrum
B. M. McAllan and Fritz Geiser