

CONTENTS

Preface		ix
Chapter 1	An Introduction to Neotropical Carnivores <i>Joseph M. Shostell</i> <i>and Manuel Ruiz-Garcia</i>	1
Molecular Population Genetics and Evolutionary Biology		
Chapter 2	Molecular Phylogenetics of two Neotropical Carnivores, <i>Potos flavus</i> (Procyonidae) and <i>Eira barbara</i> (Mustelidae): No Clear Existence of Putative Morphological Subspecies <i>Manuel Ruiz-García, Nicolás Lichilín-Ortiz</i> <i>and María Fernanda Jaramillo</i>	37
Chapter 3	How Are Amazon and Orinoco Rivers Related? Preliminary Results on the Comparative History, Structure and Dynamics of Giant Otters, <i>Pteronura brasiliensis</i> , from Western Amazonia <i>Benoit de Thoisy, Manuel Ruiz-Garcia,</i> <i>Luisa Castellanos-Mora</i> <i>and Anne Lavergne</i>	85
Chapter 4	Phylogenetics Relationships among Four Putative Taxa of Foxes of the <i>Pseudoalopex</i> Genus (Canidae, Carnivora) and Molecular Population Genetics of <i>Ps. Culpaeus</i> and <i>Ps. Sechurae</i> <i>Manuel Ruiz-García, David Rivas-Sánchez</i> <i>and Nicolás Lichilín-Ortiz</i>	97
Chapter 5	The Genetic Demographic History and Phylogeography of the Andean Bear (<i>Tremarctos ornatus</i>) by Means of Microsatellites and mtDNA Markers <i>Manuel Ruiz-García</i>	129

- Chapter 6** Population Genetics of the Felid *Leopardus Guigna* in Southern South America: Identifying Intraspecific Units for Conservation
Constanza Napolitano, James Sanderson, Warren E. Johnson, Stephen J. O'Brien, A. Rus Hoelzel, Rachel Freer, Nigel Dunstone, Kermit Ritland and Elie Poulin
- Chapter 7** Population Genetics and Spatial Structure in Two Andean Cats (the Pampas Cat, *Leopardus Pajeros* and the Andean Mountain Cat, *L. Jacobita*) by Means of Nuclear and Mitochondrial Markers and Some Notes on Skull Biometrics
Manuel Ruiz-García, Daniel Cossíos, Mauro Lucherini, José Yáñez, Myreya Pinedo-Castro and Bernard Angers
- Chapter 8** Population Genetics and Phylogeographic Analyses of the Jaguarundi (*Puma Yagouaroundi*) by Means of Three Mitochondrial Markers: The First Molecular Population Study of This Species
Manuel Ruiz-García and Myreya Pinedo-Castro
- Chapter 9** Craniometric and Microsatellite Genetic Differentiation among Putative Ocelot Subspecies (*Leopardus Pardalis*) throughout Latin America
Manuel Ruiz-García, Carolina Corrales and Myreya Pinedo-Castro
- Chapter 10** Determination of Microsatellite DNA Mutation Rates, Mutation Models and Mutation Bias in Four Main Felidae Lineages (European Wild Cat, *Felis silvestris*; Ocelot, *Leopardus pardalis*; Puma, *Puma concolor*; Jaguar, *Panthera onca*)
Manuel Ruiz-García, Rosa García-Perea, Carolina Corrales, Andrea Murillo, Diana Álvarez, Myreya Pinedo-Castro and Joseph Mark Shostell
- Chapter 11** Population Genetics and Phylogeography of the Largest Wild Cat in the Americas: An Analysis of the Jaguar by Means of Microsatellites and Mitochondrial Gene Sequences
Manuel Ruiz-García, Catalina Vásquez, Andrea Murillo, Myreya Pinedo-Castro and Diana Alvarez
- Chapter 12** Craniometric Variation in Jaguar Subspecies (*Panthera onca*) from Colombia
Manuel Ruiz-García and Esteban Payan

Chapter 13	Reproduction and Placentation in Neotropical Carnivores <i>Michael R. McGowen, Dalen Agnew and Derek E. Wildman</i>	485
Chapter 14	Fossils of South American Land Carnivores (Carnivora, Mammalia) <i>Leopoldo Soibelzon and Francisco J. Prevosti</i>	509
Biological Conservation		
Chapter 15	Andean Bear Core Area Overlap in the Intag Region, Ecuador <i>Armando Castellanos</i>	531
Chapter 16	Hematology and Blood Chemistry of the Andean Bear (<i>Tremarctos ornatus</i>) in Ecuador: Comparative Values between Captive Zoo Bears and Rehabilitated-free Bears <i>Armando X. Castellanos, Leonardo Arias, Esteban Payán and Manuel Ruiz-García</i>	545
Chapter 17	State of the Andean Bear (<i>Tremarctos ornatus</i>) in Bolivia <i>Viviana Albarracín, Susanna Paisley, Enzo Aliaga-Rossel and Ximena Vélez Liendo</i>	577
Chapter 18	Where Will Jaguars Roam? The Importance of Survival in Unprotected Lands <i>Esteban Payan, Chris Carbone, Katherine Homewood, Evi Paemelaere, Howard Quigley and Sarah M. Durant</i>	603
Chapter 19	The Jaguar Corridor Initiative: A Range-wide Conservation Strategy <i>Kathy A. Zeller, Alan Rabinowitz, Roberto Salom-Perez and Howard Quigley</i>	629
Chapter 20	Diversity, Distribution and Conservation of Bolivian Carnivores <i>Robert B. Wallace, Heidy Lopez-Strauss, Nohelia Mercado and Zulia R. Porcel</i>	659
Index		707