

Contents

<i>Contributors</i>	page vii
<i>Preface</i>	ix
<i>Acknowledgements</i>	xii
1 Introduction to Carnivora ANJALI GOSWAMI	1
2 Phylogeny of the Carnivora and Carnivoramorphae, and the use of the fossil record to enhance understanding of evolutionary transformations JOHN J. FLYNN, JOHN A. FINARELLI, AND MICHELLE SPAULDING	25
3 Phylogeny of the Viverridae and 'Viverrid-like' feliforms GERALDINE VERON	64
4 Molecular and morphological evidence for Ailuridae and a review of its genera MICHAEL MORLO AND STÉPHANE PEIGNÉ	92
5 The influence of character correlations on phylogenetic analyses: a case study of the carnivoran cranium ANJALI GOSWAMI AND P. DAVID POLLY	141
6 What's the difference? A multiphasic allometric analysis of fossil and living lions MATTHEW H. BENOIT	165
7 Evolution in Carnivora: identifying a morphological bias JILL A. HOLLIDAY	189
8 The biogeography of carnivore ecomorphology LARS WERDELIN AND GINA D. WESLEY-HUNT	225
9 Comparative ecomorphology and biogeography of Herpestidae and Viverridae (Carnivora) in Africa and Asia GINA D. WESLEY-HUNT, REIHANEH DEGHANI, AND LARS WERDELIN	246

10	Ecomorphological analysis of carnivore guilds in the Eocene through Miocene of Laurasia MICHAEL MORLO, GREGG F. GUNNELL, AND DORIS NAGEL	269
11	Ecomorphology of North American Eocene carnivores: evidence for competition between Carnivorans and Creodonts ANTHONY R. FRISCIA AND BLAIRE VAN VALKENBURGH	311
12	Morphometric analysis of cranial morphology in pinnipeds (Mammalia, Carnivora): convergence, ecology, ontogeny, and dimorphism KATRINA E. JONES AND ANJALI GOSWAMI	342
13	Tiptoeing through the trophics: geographic variation in carnivoran locomotor ecomorphology in relation to environment P. DAVID POLLY	374
14	Interpreting sabretooth cat (Carnivora; Felidae; Machairodontinae) postcranial morphology in light of scaling patterns in felids MARGARET E. LEWIS AND MICHAEL R. LAGUE	411
15	Cranial mechanics of mammalian carnivores: recent advances using a finite element approach STEPHEN WROE	466
	<i>Index</i>	486

The colour plates are situated between 274 and 275