

TABLE OF CONTENTS – Biology of Sharks and Their Relatives, 3rd Edition

1 Bridging the Gap Between Chondrichthyan Paleobiology and Biology

Lisa B. Whitenack, Sora L. Kim, and Elizabeth C. Sibert

2 Taxonomy and Diversity of Extant Elasmobranchs

William T. White, Helen O'Neill, and Gavin J.P. Naylor

3 How to Build a Shark: Biomechanics and Bioinspiration

E.W. Misty Paig-Tran, Marianne E. Porter, Lara A. Ferry, and Lisa B. Whitenack

4 Advances in Chondrichthyan Neurobiology

Kara E. Yopak

5 Advances in the Sensory Biology of Elasmobranchs

Tricia L. Meredith, Stephen M. Kajiura, Kyle C. Newton, Timothy C. Tricas, and Christine N. Bedore

6 Understanding Age and Growth of Chondrichthyan Fishes

Alastair V Harry, Jonathan J. Smart, and Sebastián A. Pardo

7 Elasmobranch Mating Systems

Aletta Bester-van der Merwe, Kady Lyons, Dovi Kacev, and Kevin Feldheim

8 Molecular Aspects of Elasmobranch Reproduction and Artificial Insemination

Jennifer T. Wyffels and Linda M. Penfold

9 Selected Topics in the Developmental Biology of Chondrichthyan Fishes

Carl A. Luer and Jennifer T. Wyffels

10 Physiological and Applied Energetics of Elasmobranch Fishes

Adrian C. Gleiss, Jason R. Treberg, Evan E. Byrnes, and Karissa O. Lear

11 Elasmobranch Foraging Strategies and Tactics of Elasmobranchs

Samantha Munroe, Lauren Meyer, and Michael R. Heithaus

12 Advances in Methods, Understanding, and Applications of Elasmobranch Movement Ecology

Christopher G. Mull, Samantha Andrzejaczek, Vinay Udyawer, and Ross G. Dwyer

13 Stress Responses, Health, and Diseases of Elasmobranchs

Joanna Borucinska and Gregory Skomal

14 Elasmobranch Health, Pathology and the Host Microbiome

Alisa L. Newton and Kim B. Ritchie

15 Advances in Our Understanding of the Ecological Importance of Sharks and Their Relatives

Michael R. Heithaus, Ruth E. Dunn, N. Frances Farabaugh, E. Lester, E. Madin, M. Meekan, Y. P. Papastamatiou, G. Roff, J. J. Vaudo, and A. J. Wirsing

16 Population Structure and Connectivity of Chondrichthyans

Madeline E. Green, Colin A. Simpfendorfer, and Floriaan Devloo-Delva

17 Shark and Ray Social Lives: Form, Function, and Ecological Significance of Associations and Grouping

Yannis P. Papastamatiou, Johann Mourier, Catarina Vila Pouca, Tristan Guttridge, and David M.P. Jacoby

18 Freshwater and Euryhaline Elasmobranchs

Peter M. Kyne and Luis O. Lucifora

19 Deepwater Chondrichthyans

Brittany Finucci, Charles F. Cotton, R. Dean Grubbs, K.K. Bineesh, and Teresa Moura

20 The Elasmobranchs of Coral Reefs

Demian D. Chapman, M. Aaron MacNeil, Michelle R. Heupel, Mark Meekan, Euan S. Harvey, Colin A. Simpfendorfer, and Michael R. Heithaus

21 Conservation Science for Sharks and Rays

Lindsay N.K. Davidson, Vanessa F. Jaiteh, Andrew Chin, Rima W. Jabado, Leontine Baje, Daniel Fernando, David E. Sabadin, Benaya M. Simeon, and Alex Tamo

22 Elasmobranch Conservation Policy: Progress and Priorities

Sonja V. Fordham, Julia M. Lawson, Olga Koubra, and Melissa R. Cronin

23 Guiding Random Acts of Kindness: Conservation Planning for Sharks and Rays

Nicholas K. Dulvy and Colin A. Simpfendorfer

24 Strategies to Reduce Fisheries Bycatch Mortality in Chondrichthyans

John W. Mandelman, Jeffrey R. Kneebone, Alexia Morgan, Jefferson Murua, and Emily Jones

25 Climate Change and Sharks

Jodie L. Rummer, Ian A. Bouyoucos, Carolyn Wheeler, Catarina Santos, and Rui Rosa.