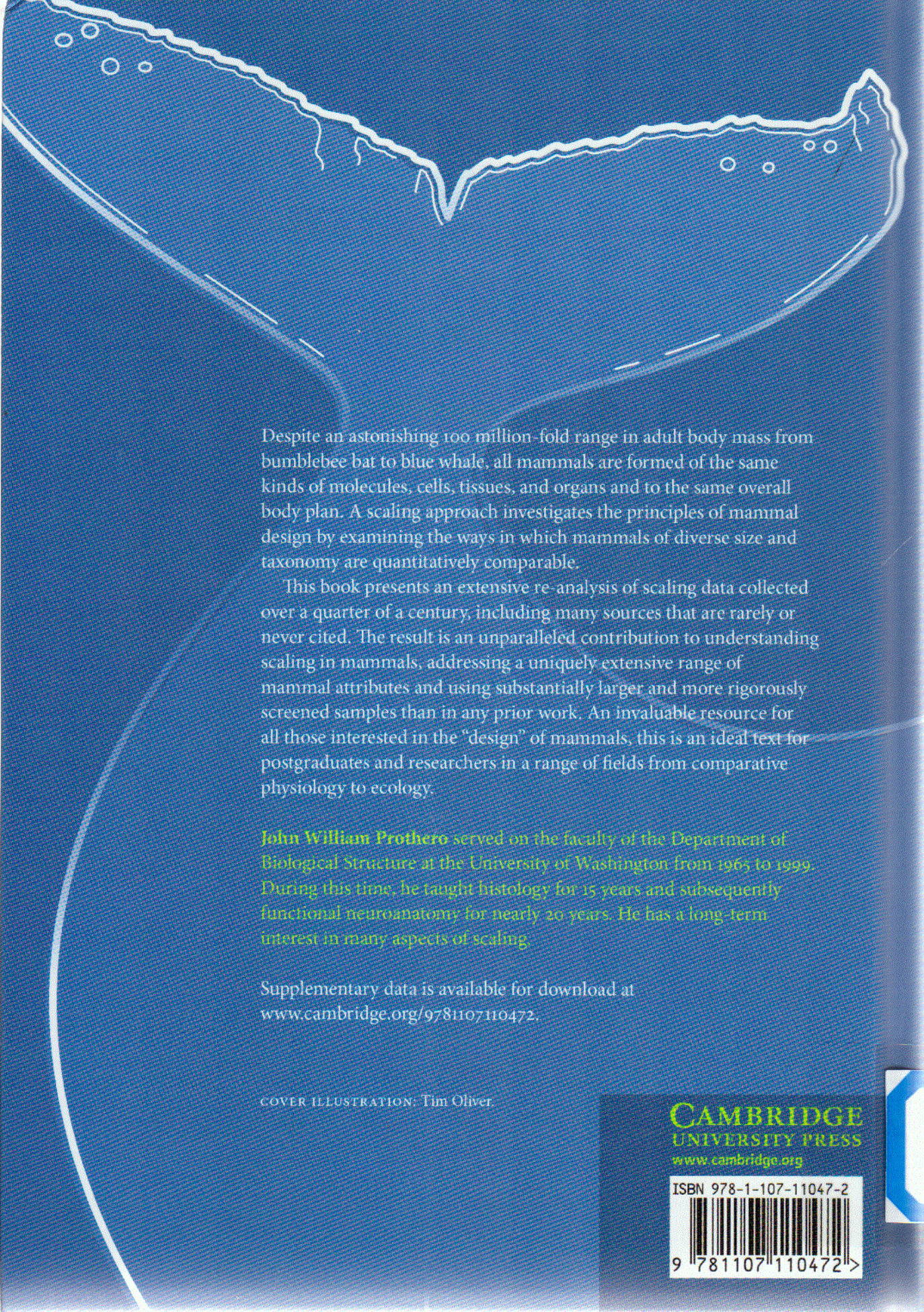




Despite an astonishing 100 million-fold range in adult body mass from bumblebee bat to blue whale, all mammals are formed of the same kinds of molecules, cells, tissues, and organs and to the same overall body plan. A scaling approach investigates the principles of mammal design by examining the ways in which mammals of diverse size and taxonomy are quantitatively comparable.

This book presents an extensive re-analysis of scaling data collected over a quarter of a century, including many sources that are rarely or never cited. The result is an unparalleled contribution to understanding scaling in mammals, addressing a uniquely extensive range of mammal attributes and using substantially larger and more rigorously screened samples than in any prior work. An invaluable resource for all those interested in the "design" of mammals, this is an ideal text for postgraduates and researchers in a range of fields from comparative physiology to ecology.

John William Prothero served on the faculty of the Department of Biological Structure at the University of Washington from 1965 to 1999. During this time, he taught histology for 15 years and subsequently functional neuroanatomy for nearly 20 years. He has a long-term interest in many aspects of scaling.

Supplementary data is available for download at
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