

TABLE OF CONTENTS

Introduction

Shayne Cox Gad

The Mouse

Shayne Cox Gad, Charlie Clifford, and Dawn Goodman

The Rat

Mark D. Johnson, Shayne Cox Gad, and Christopher J. Kemper

The Hamster

Shayne Cox Gad and Frederick G. Hess

The Guinea Pig

Shayne Cox Gad and John Peckham (deceased)

Rabbit

Clare M. Salomon and Shayne Cox Gad

The Ferret

Daniel E. McLain and Shayne Cox Gad

The Dog

Shayne Cox Gad, Mark Morse, and Christopher J. Kemper

Primates

Mark D. Walker, Michael V. Templin, John C. Bernal, Stewart B. Jacobson, and Shayne Cox Gad

The Minipig

Shayne Cox Gad and Alain Stricker-Krongrad

Alternative Species

Shayne Cox Gad

Clinical Pathology of Laboratory Animals

Niraj K. Tripathi and Robert L. Hall

Telemetry in Nonclinical Drug Safety Assessment Studies

R. Dustan (Dusty) Sarazan

Molecular Imaging Techniques in Laboratory Animals

Zheng J. Wang, Ting-Tung A. Chang, Richard Sauter, Stephen R. Porter, Avinash Srivatsan, and Xiaoyuan Chen

Genetically Modified Animal Models

JoAnn Schuh

Model Selection and Scaling (Allometry)

Shayne Cox Gad

Susceptibility Factors

Shayne Cox Gad

Laws, Regulations, and Guidelines for Animal Care and Use in Research

Charles B. Spainhour and Laurie M. Serfilippi

Necropsy and Gross Pathology

Charles B. Spainhour.