

# TABLE OF CONTENTS

## Pathology of the Developing Mouse A Systematic Approach

### **INTRODUCTION.**

The Case for Developmental Pathology and Developmental Pathologists.

### **FUNDAMENTALS OF MOUSE DEVELOPMENTAL BIOLOGY.**

Essentials of Mouse Genetics and Nomenclature.

Essential Terminology for Mouse Developmental Pathology Studies.

Anatomy and Physiology of the Developing Mouse and Placenta.

Teratogens and Teratogenic Mechanisms in Mouse Developmental Pathology.

### **EXPERIMENTAL METHODS IN MOUSE DEVELOPMENTAL PATHOLOGY.**

Principles of Experimental Design for Mouse Developmental Pathology Studies.

Necropsy Sampling and Data Collection for Studying the Anatomy, Histology, and Pathology of Mouse Development.

Clinical Pathology Analysis in Developing Mice.

Histotechnological Processing of Developing Mice.

Localization of Gene Expression in Developing Mice.

Protein Localization in Developing Mice.

Quantitative Morphological Assessment in Mouse Developmental Pathology Studies.

Ultrastructural Evaluation of Developing Mice.

Three-Dimensional Imaging in Mouse Developmental Pathology Studies.

### **ANALYTICAL PRACTICES FOR MOUSE DEVELOPMENTAL PATHOLOGY.**

Pathology of the Developing Mouse from Conception to Weaning.

Pathology of the Placenta.

Mouse Developmental Pathology Assessments in High-Throughput Phenogenomic Facilities.

A Statistical Analysis Primer for Mouse Developmental Pathology Studies.

### **COMMON ABBREVIATIONS IN MOUSE DEVELOPMENTAL PATHOLOGY STUDIES.**

### **INDEX.**