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The Anatomical Basis of Mouse Development

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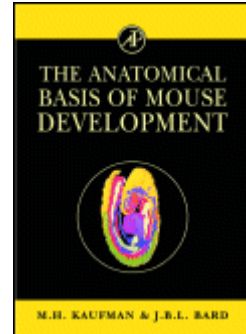
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By

Matthew Kaufman, Edinburgh University, U.K.
Jonathan Bard, University of Edinburgh, U.K.

Description

This book is an essential anatomical resource for developmental biologists who need to know about any aspect of mouse developmental anatomy, as well as for geneticists using the mouse embryo as a model. The book is a companion to Kaufman's **The Atlas of Mouse Development**, and details the developmental anatomy of the early embryo, the transitional tissues, and all the major organ systems. It also provides extensive comparisons with human developmental anatomy, both normal and abnormal. The book has extensive reference indexes detailing developmental stage criteria. **The Anatomical Basis of Mouse Development** will be a key reference work for anyone who needs to understand developmental anatomy in normal and mutant mice.

Audience

Researchers in developmental biology, especially embryology; anatomists; molecular geneticists and geneticists using the mouse embryo as a model system for research.

Contents

Introduction. The Early Stages:

From Fertilization to Implantation. The Postimplantation Embryo. Postimplantation Extra-Embryonic Development. Early Organogenesis.

The Transitional Tissues:

The Neural Crest. Somites And Their Derivatives (muscles, dermis, and vertebrae). The Branchial Arch System.

The Major Organ Systems:

The Heart and its Associated Vascular System. The Limbs. The Urogenital System. The Gut and its Associated Tissues. The Mouth and Nose Region. The Brain and Spinal Cord. The Eye and the Ear. The Skull.

The Indexes:

Introduction. Table of Mouse and Rat Developmental Stages. The Tissues Present in Each Stage of Mouse Development. Index of First Occurrences of Tissues. Glossary. References. Author Index. Tissue Index. Subject Index. The Wiring (Lineage) Diagrams

Bibliographic & ordering Information

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