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Manipulating the Mouse Embryo

A Laboratory Manual, Second Edition

By Brigid Hogan, Vanderbilt University Medical School; Rosa Beddington, National Institute for Medical Research, London; Frank Costantini, Columbia University; Elizabeth Lacy, Memorial Sloan-Kettering Cancer Center

The 1986 publication of *Manipulating the Mouse Embryo* catalyzed the interaction between molecular biology and mammalian embryology. For the first time, detailed instructions on how to begin applying recombinant DNA technology to important questions about mammalian embryonic development were made available to a broad audience. The gathering pace of such studies in recent years has brought improvements to existing methods and fueled the creation of new and powerful technologies. The second edition of this classic manual has been completely revised and expanded to incorporate these advances. It contains new sections on the production and analysis of transgenic mice, the manipulation of preimplantation embryos to generate chimeras, the culture and manipulation of embryonic stem cells, including gene "knockouts," and techniques for visualizing genes, gene products, and specific cell types. As before, included with the protocols is a summary of current understanding of mouse development at a molecular level. In its new edition, this manual of proven distinction is again an authoritative and comprehensive source of technical guidance for experienced investigators and an essential resource for newcomers to mammalian genetics and embryology.

CONTENTS

- Developmental Genetics and Embryology of the Mouse: Past, Present, and Future
- Section A. Summary of Mouse Development
- Section B. Setting Up a Colony for the Production of Transgenic and Mutant Mice
- Section C. Recovery, Culture, and Transfer of Embryos and Germ Cells
- Section D. In Vitro Manipulation of Preimplantation Embryos
- Section E. Production of Transgenic Mice
- Section F. Isolation, Culture, and Manipulation of Embryonic Stem Cells
- Section G. Analysis of Transgenic Mice
- Section H. Techniques for Visualizing Genes, Gene Products, and Specialized Cell Types
- Section I. In Vitro Culture of Eggs, Embryos, Primordial Germ Cells, and Teratocarcinoma Cells
- Appendices
- Suggested Reading
- References

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