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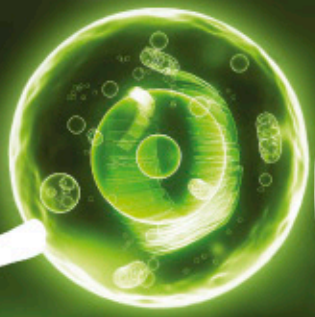

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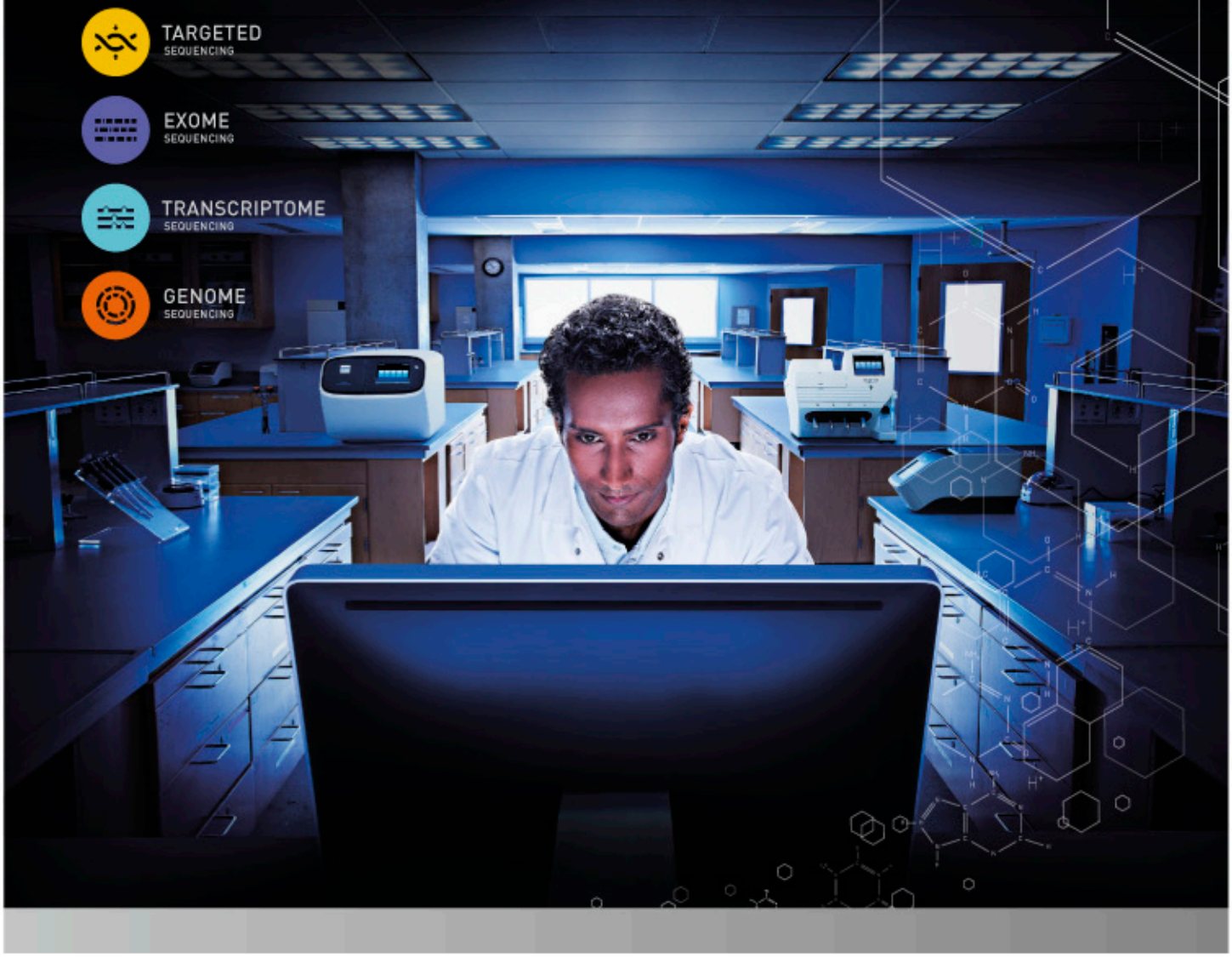

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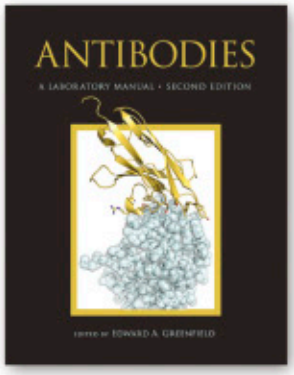

Edited by Edward A. Greenfield, *Dana-Farber Cancer Institute*

The second edition of the now-classic lab manual *Antibodies,* by Harlow and Lane, has been revised, extended, and updated by Edward Greenfield of the Dana-Farber Cancer Center, with contributions from other leaders in the field. This manual continues to be an essential resource for molecular biology, immunology, and cell culture labs on all matters relating to antibodies. The chapters on hybridomas and monoclonal antibodies have been recast with extensive new information and there are additional chapters on characterizing antibodies, antibody engineering, and flow cytometry. As in the original book, the emphasis in this second edition is on providing clear and authoritative protocols with sufficient background information and troubleshooting advice for the novice as well as the experienced investigator.

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Manipulating the Mouse Embryo

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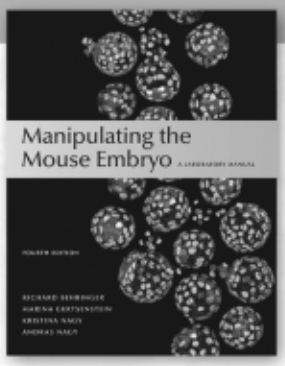

By Richard Behringer, *University of Texas, M.D. Anderson Cancer Centre,* Marina Gertsenstein, *Toronto Centre for Phenogenomics, Transgenic Core and Specialty Resources,* Kristina Nagy, *Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto,* and Andras Nagy, *Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto*

The fourth edition of the "Mouse Manual"—*Manipulating the Mouse Embryo*—appears 28 years after the first edition and once again is the definitive reference source on mouse development, transgenesis techniques, and molecular biology. Authors Richard Behringer, Marina Gertsenstein, Kristina Nagy, and Andras Nagy—pre-eminent leaders in their fields—have reorganized and updated this edition to include new information and protocols on:

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Techniques regarding recombinant DNA technology and mouse embryonic development from the previous editions have been updated and recast, as has the wealth of information on mouse laboratory strains, mouse housing and breeding, surgical procedures, assisted reproduction, handling of embryos, and micromanipulation setups. The first edition of *Manipulating the Mouse Embryo* appeared in 1986 as an outgrowth of Cold Spring Harbor Laboratory courses on the molecular embryology of the mouse held in the early 1980s, and authors of the first two editions included Brigid Hogan, Rosa Beddington, Frank Costantini, and Liz Lacy. Mouse embryo manipulation techniques have developed exponentially since the first edition, but then, as now, *Manipulating the Mouse Embryo* remains the essential practical and theoretical guide for anyone working with mice—students, lab technicians, and investigators.

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Lab Math

A Handbook of Measurements, Calculations, and Other Quantitative Skills for Use at the Bench

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Second edition

By Dany Spencer Adams, *The Tufts Center for Regenerative and Developmental Biology and Department of Biology, Tufts University*

Lab Math: A Handbook of Measurements, Calculations, and Other Quantitative Skills for Use at the Bench, 2nd edition, collects in one place the numbers and equations you rely on for your experiments and use to report your data—what they mean and how to use them—as well as easy-to-follow shortcuts for making the math easier. Written in an accessible and informal style, *Lab Math* describes basic mathematical principles and various tasks involving numbers, including how to calibrate lab equipment, how to make solutions, and the numbers involved in various methods for quantifying DNA, RNA, and proteins, and an all-new section on quantitative polymerase chain reaction. Basic statistical ideas and methods and the proper reporting of uncertainty are described in simple-to-understand language. Also included are reference tables, charts and "plug-and-chug" equation blanks for specific experimental procedures. Since the publication of the first edition in 2003, *Lab Math* has become an essential math reference and teaching resource for both on-the-spot practical information and background for understanding numerical tasks. Important additions in this second edition make *Lab Math* an even more useful tool for every laboratory.

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