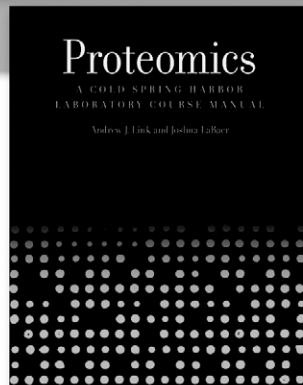


Proteomics

A Cold Spring Harbor Laboratory Course Manual



By Andrew J. Link, *Vanderbilt University School of Medicine, Nashville, Tennessee*
and Joshua LaBaer, *Harvard University School of Medicine*

Based on a popular course at Cold Spring Harbor Laboratory, this new manual assembles cutting-edge protocols, helpful hints, and lecture notes to teach researchers from a wide variety of disciplines the essential methods of proteomics using state-of-the-art instrumentation. Detailed protocols involving protein microarrays, liquid chromatography, high-throughput cloning of expression constructs, IMAC, mass spectrometry, MALDI-TOF, and MudPIT are provided, along with well-illustrated descriptions of experimental procedures and lists of recommended Web sites and reading material. *Proteomics: A Cold Spring Harbor Laboratory Course Manual* can be used both as the basis for a course and as a detailed bench manual for those performing indispensable proteomic experiments. It is authored by Andrew J. Link and Joshua LaBaer, both leaders in their fields, who bring complementary expertise to the manual.

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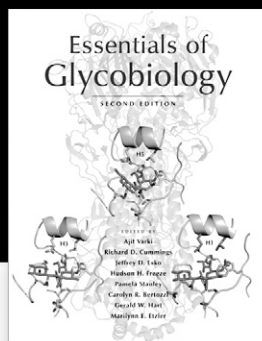
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ESSENTIALS OF GLYCOBIOLOGY

SECOND EDITION

Edited by Ajit Varki, *University of California, San Diego*, Richard D. Cummings, *Emory University School of Medicine, Atlanta*, Jeffrey D. Esko, *University of California, San Diego*, Hudson H. Freeze, *Burnham Institute for Medical Research, La Jolla*, Pamela Stanley, *Albert Einstein College of Medicine of Yeshiva University, New York*, Carolyn R. Bertozzi, *University of California, Berkeley*, Gerald W. Hart, *Johns Hopkins University of School of Medicine, Baltimore*, and Marilynn E. Etzler, *University of California, Davis*

The sugar chains of cells—known collectively as glycans—play a variety of impressive, critical, and often surprising roles in biological systems. Glycobiology is the study of the roles of glycans in the growth and development, function, and survival of an organism. Glyco-related processes, described in vivid detail in the text, have become increasingly significant in many areas of basic research as well as biomedicine and biotechnology.

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The first edition of *Essentials of Glycobiology* represented also a notable experiment in publishing, as it became one of the first electronic textbooks. And, now, in recognition of its wide audience and the changing ways in which researchers and students learn and access information, the new edition of *Essentials* will be made available online simultaneously with the print edition. This novel experiment is the result of the collaborative efforts of the Cold Spring Harbor Laboratory Press, the National Center for Biotechnology Information, and the editors of the book. Written and edited by glycobiologists with experience in teaching and in research, this volume will be an invaluable resource, both for students and for established investigators in fields such as developmental biology, cell biology, neuroscience, immunology, and biochemistry who require a complete yet concise introduction to this burgeoning field.

Published in October 2008, 784 pp., illus., glossary, study guide, index

Hardcover \$158

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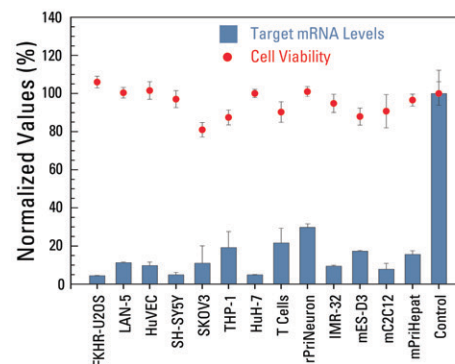
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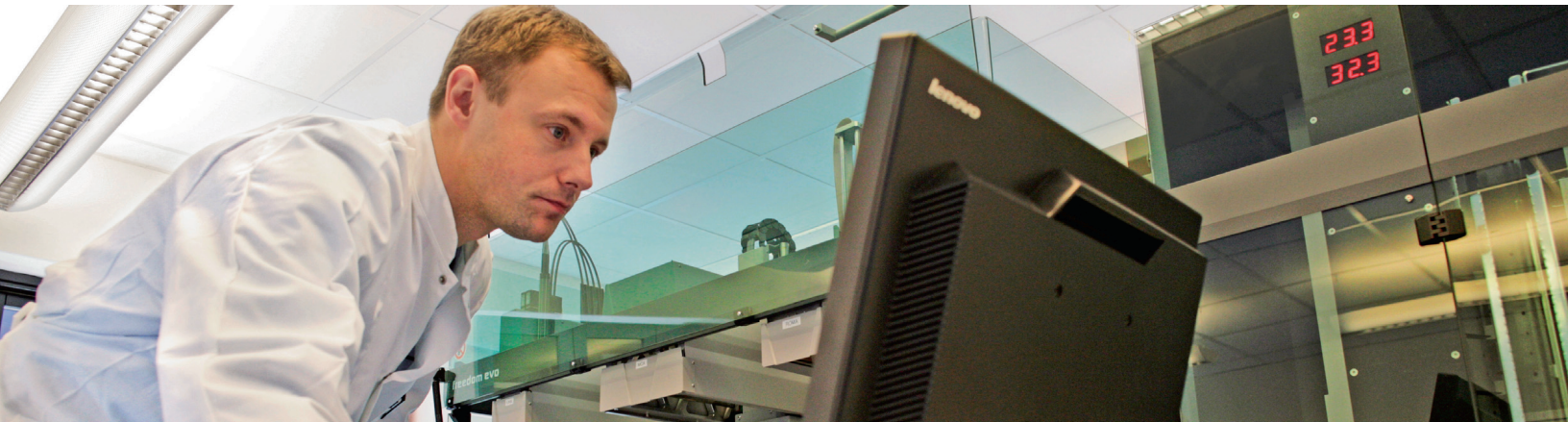
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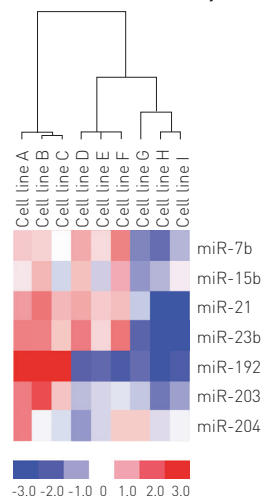
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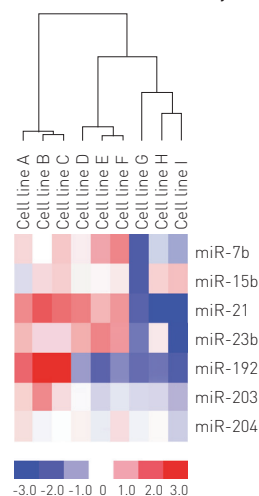


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Transcriptional Regulation in Eukaryotes

Concepts, Strategies, and Techniques, Second Edition

By Michael F. Carey, *University of California, Los Angeles*; Craig L. Peterson, *University of Massachusetts Medical School, Worcester*; and Stephen T. Smale, *University of California, Los Angeles*

Strategies for studying gene regulation mechanisms have changed dramatically over the past several years in light of the emergence of complete genome sequences for many organisms as well as the development of or improvements to technologies such as chromatin immunoprecipitation, RNA interference, microarrays, and proteomics.

The first edition of the highly successful *Transcriptional Regulation in Eukaryotes*, written by Michael Carey and Stephen Smale at UCLA, provided a comprehensive source of strategic, conceptual, and technical information for investigating the complexities of gene regulation at the level of transcription.

With the ever-increasing importance of genome data and the appearance of new and better techniques, the second edition of this book has added a third author, Craig Peterson at the University of Massachusetts Medical School. In addition to a new chapter on the in vitro analysis of chromatin templates for DNA-binding studies and transcription, this second edition has been extensively rewritten and updated to discuss new advances in the field and their impact on gene regulation mechanisms. The second edition retains the approach of the first in covering both the conceptual and practical aspects of how to study the regulation of a newly isolated gene and the biochemistry of a new transcription factor.

Transcriptional Regulation in Eukaryotes serves as both a powerful textbook and manual for advanced instruction in molecular biology which

- supplements clearly written text with extensive illustrations
- puts methods in the context of underlying theory
- gives expert recommendations on experimental strategies
- encourages creativity in investigative design
- explains protocols for essential techniques step by step, with extensive advice on troubleshooting
- provides the latest methods in use in the field

This important and unique book is essential reading for anyone pursuing the analysis of gene expression in model systems or disease states, providing underlying theory and perspective to the newcomer and the latest techniques to the expert.

Published in December 2008, 620 pp., appendix, index

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Paperback \$165

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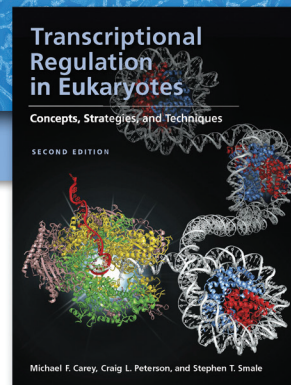
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