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Principles of ProteomicsGarland Science

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Principles of Proteomics, Second Edition, provides a concise and user-friendly introduction to the diverse technologies used for the large-scale analysis of proteins, as well as their applications, and their impact in areas such as drug discovery, agriculture, and the fight against disease. Proteomics is a fast-advancing field in which research

Principles of Proteomics is designed specifically to explain the different stages of proteomic analysis, their complexities and their jargon to students and researchers in a non-technical overview of the field. The author describes the broad range of problems which proteomics can address, including structural proteomics, interaction proteomics, protein modification analysis and functional proteomics. Methodologies are described in user-friendly language, from the more traditional two-dimensional gel electrophoresis to the new developments in protein chip technologies. These are well presented in the context of overall strategies which can be adopted to address the different aspects of large-scale protein analysis.

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Written by the successful author team of Sandy Primrose and Richard Twyman, Genomics: Applications in Human Biology is a topical book showing how the new science of genomics is adding impetus to the advances in human health provided by biotechnology. Written to provide the necessary overview of the subject, covering technological developments, applications and (where necessary) the ethical implications. Divided into three sections, the first section introduces the role of biotechnology and genomics in medicine and sets out some of the technological advances that have been the basis of recent medical breakthroughs. The second section takes a closer look at how biotechnology and genomics are influencing the prevention and treatment of different categories of disease. Finally the contribution of biotechnology and genomics to the development of different types of therapy is described, including conventional drugs, recombinant proteins and gene/cell therapies. References to appropriate sections in other two popular books, authored by Sandy Primrose and Richard Twyman, are included - Principles of Gene Manipulation and Principles of Gene Analysis and Genomics. Features several categories of boxed text, including history boxes (describing the origins and development of particular technologies or treatments), molecular boxes (featuring the molecular basis of diseases or treatments in more detail) and ethic boxes (which discusses the ethical implications of technology development and new

therapies).

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Now in its sixth edition, Principles of Gene Manipulation provides an excellent introduction to the area of genetic engineering of plants, animals and microbes for advanced level undergraduates, with a basic understanding of genetics. This classic textbook has been substantially updated and revised to reflect the rapid advances that have been made in the core technologies in the seven years since the last edition. Furthermore, to put these technologies into context, the final chapter has been structured into six themes: · nucleic acids as diagnostic tools · new drugs and new therapies for genetic diseases · combating infectious disease · protein engineering · metabolic engineering · modern plant breeding A website is now available to complement this text, at www.blackwellpublishing.com/primrose Sixth edition of an extremely popular textbook. A complete rewrite by a new author team. Emerging technologies replace obsolete procedures. A new chapter on genomics and proteomics.

The increasing integration between gene manipulation and genomics is embraced in this new book, Principles of Gene Manipulation and Genomics, which brings together for the first time the subjects covered by the best-selling books Principles of Gene Manipulation and Principles of Genome Analysis & Genomics. Comprehensively revised, updated and rewritten to encompass within one volume, basic and advanced gene manipulation techniques, genome analysis, genomics, transcriptomics, proteomics and metabolomics Includes two new chapters on the applications of genomics An accompanying website - www.blackwellpublishing.com/primrose - provides instructional materials for both student and lecturer use, including multiple choice questions, related websites, and all the artwork in a downloadable format. An essential reference for upper level undergraduate and graduate students of genetics, genomics, molecular biology and recombinant DNA technology.

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