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The detection and measurement of the dynamic regulation and interactions of cells and proteins within the living cell are critical to the understanding of cellular biology and pathophysiology. The multidisciplinary field of molecular imaging of living subjects continues to expand with dramatic advances in chemistry, molecular biology, therapeutics, engineering, medical physics and biomedical applications. *Molecular Imaging: Principles and Practice, Volumes 1 and 2, Second Edition* provides the first point of entry for physicians, scientists, and practitioners. This authoritative reference book provides a comprehensible overview along with in-depth presentation of molecular imaging concepts, technologies and applications making it the foremost source for both

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This text offers a fresh, distinctive approach to the teaching of molecular biology that reflects the challenge of teaching a subject that is in many ways unrecognizable from the molecular biology of the 20th century - a discipline in which our understanding has advanced immeasurably, but about which many questions remain to be answered. With a focus on key principles, this text emphasizes the commonalities that exist between the three kingdoms of life, giving students an accurate depiction of our current understanding of the nature of molecular biology and the differences that underpin biological diversity.

Two factors dominate current molecular biology: the amount of raw data is increasing very rapidly and successful applications in biomedical research require carefully curated and annotated databases. The quality of the experimental data -- especially nucleic acid sequences -- is satisfactory; however, annotations depend on features inferred from the data rather than measured directly, for instance the identification of genes in genome sequences. It is essential that these inferences are as accurate as possible and this requires human intervention. With the recognition of the importance of accurate database annotation and the requirement for individuals with particular constellations of skills to carry it out, annotators are emerging as specialists within the profession of bioinformatics. This book compiles information about annotation -- its current status, what is required to improve it, what skills must be brought to bear on database curation and hence what is the proper training for annotators. The book should be essential reading for all people working on biological databases, both biologists and computer scientists. It will also be of interest to all users of such databases, including molecular biologists, geneticists, protein chemists, clinicians and drug developers.

This best-selling undergraduate textbook provides an introduction to key experimental techniques from across the biosciences. It uniquely integrates the theories and practices that drive the fields of biology and medicine, comprehensively covering both the methods students will encounter in lab classes and those that underpin recent advances and discoveries. Its problem-

solving approach continues with worked examples that set a challenge and then show students how the challenge is met. New to this edition are case studies, for example, that illustrate the relevance of the principles and techniques to the diagnosis and treatment of individual patients. Coverage is expanded to include a section on stem cells, chapters on immunochemical techniques and spectroscopy techniques, and additional chapters on drug discovery and development, and clinical biochemistry. Experimental design and the statistical analysis of data are emphasised throughout to ensure students are equipped to successfully plan their own experiments and examine the results obtained.

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