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one of the most pressing tasks in biotechnology today is to unlock the function of each of the thousands of new genes identified every day scientists do this by analyzing and interpreting proteins which are considered the task force of a gene this single source reference covers all aspects of proteins explaining fundamentals synthesizing the latest literature and demonstrating the most important bioinformatics tools available today for protein analysis interpretation and prediction students and researchers of biotechnology bioinformatics proteomics protein

engineering biophysics computational biology molecular modeling and drug design will find this a ready reference for staying current and productive in this fast evolving interdisciplinary field explains all aspects of proteins including sequence and structure analysis prediction of protein structures protein folding protein stability and protein interactions presents a cohesive and accessible overview of the field using illustrations to explain key concepts and detailed exercises for students

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biochemistry the molecular basis of life is an intermediate one semester text written for students on degree pathways in chemistry biology and other health and life sciences designed for students who need a solid introduction to biochemistry but are not specializing in the subject the text focuses on essential biochemical principles that underpin the modern life sciences and offers the most balanced coverage of chemistry and biology of any text on the market the text equips students with a complete view of the living state emphasizes problem solving and applies biochemical principles to the fields of health agriculture engineering and forensics to show students the relevance of their learning mckee and mckee is respected for its balance of biology and chemistry consistently placing biochemical principles into the context of the physiology of the cell and biomedical applications

the papers in this book are united by a common tendency to elucidate the structural functional regulatory relationships in biochemical systems on different levels of material organisation contents include problems on cell metabolism integration biochemical organisation of energy metabolism in muscle chemical organisation of supramolecular biostructures structural regularity in the pattern of metabolic reaction network enzymic proteins in organisation of chemosignalling systems stimulus response coupling

this book presents the latest research on aquaculture which is the cultivation of aquatic organisms unlike fishing aquaculture also known as aquafarming implies the cultivation of aquatic populations under controlled conditions mariculture refers to aquaculture practised in marine environments particular kinds of aquaculture include algaculture the production of kelp seaweed and other algae fish farming shrimp farming shellfish farming and the growing of cultured pearls

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