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   Nota di contenuto   INTRODUCTION TO PROTEIN STRUCTURE PREDICTION: Methods and
                       Algorithms; CONTENTS; PREFACE; CONTRIBUTORS; CHAPTER 1:
                       INTRODUCTION TO PROTEIN STRUCTURE PREDICTION; CHAPTER 2:
                       CASP : A DRIVING FORCE IN PROTEIN STRUCTURE MODELING; CHAPTER
                       3: THE PROTEIN STRUCTURE INITIATIVE; CHAPTER 4: PREDICTION OF
                       ONE - DIMENSIONAL STRUCTURAL PROPERTIES OF PROTEINS BY
                       INTEGRATED NEURAL NETWORKS; CHAPTER 5: LOCAL STRUCTURE
                       ALPHABETS; CHAPTER 6: SHEDDING LIGHT ON TRANSMEMBRANE
                       TOPOLOGY; CHAPTER 7: CONTACT MAP PREDICTION BY MACHINE
                       LEARNING
                       CHAPTER 8: A SURVEY OF REMOTE HOMOLOGY DETECTION AND FOLD
                       RECOGNITION METHODS CHAPTER 9: INTEGRATIVE PROTEIN FOLD

RECOGNITION BY ALIGNMENTS AND MACHINE LEARNING; CHAPTER 10: TASSER - BASED PROTEIN STRUCTURE PREDICTION; CHAPTER 11: COMPOSITE APPROACHES TO PROTEIN TERTIARY STRUCTURE PREDICTION: A CASE - STUDY BY I - TASSER; CHAPTER 12: HYBRID METHODS FOR PROTEIN STRUCTURE PREDICTION; CHAPTER 13: MODELING LOOPS IN PROTEIN STRUCTURES; CHAPTER 14: MODEL QUALITY ASSESSMENT USING A STATISTICAL PROGRAM THAT ADOPTS A SIDE CHAIN ENVIRONMENT VIEWPOINT; CHAPTER 15: MODEL QUALITY PREDICTION
CHAPTER 16: LIGAND - BINDING RESIDUE PREDICTION CHAPTER 17: MODELING AND VALIDATION OF TRANSMEMBRANE PROTEIN STRUCTURES; CHAPTER 18: STRUCTURE - BASED MACHINE LEARNING MODELS FOR COMPUTATIONAL MUTAGENESIS; CHAPTER 19: CONFORMATIONAL SEARCH FOR THE PROTEIN NATIVE STATE; CHAPTER 20: MODELING MUTATIONS IN PROTEINS USING MEDUSA AND DISCRETE MOLECULE DYNAMICS; INDEX; colour plates

| Sommario/riassunto | A look at the methods and algorithms used to predict protein structure A thorough knowledge of the function and structure of proteins is critical for the advancement of biology and the life sciences as well as the development of better drugs, higher-yield crops, and even synthetic bio-fuels. To that end, this reference sheds light on the methods used for protein structure prediction and reveals the key applications of modeled structures. This indispensable book covers the applications of modeled protein structures and unravels the relationship between pure sequence information and |