

1. Record Nr.	UNINA9910298404003321
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Titolo	Exploring Protein Structure: Principles and Practice // by Tim Skern
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-76858-1
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (X, 255 p. 96 illus., 94 illus. in color.)
Collana	Learning Materials in Biosciences, , 2509-6125
Disciplina	572.633
Soggetti	Proteins Science education Molecular biology Teaching Protein Science Science Education Molecular Medicine Protein Structure Teaching and Teacher Education Protein-Ligand Interactions
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. The Rationale Behind This Workbook -- Chapter 2. An Archive and a Tool: PDB and PyMOL -- Chapter 3. Exploring Fundamentals -- Chapter 4. Exploring the Peptide Bond -- Chapter 5. Exploring Secondary Structure Elements -- Chapter 6. Exploring ProteinLigand and ProteinProtein Interactions -- Chapter 7. Examining -Helical Proteins -- Chapter. 8. Investigating Proteins with -Sheets -- Chapter 9. Moving from Former to Future Frontiers.
Sommario/riassunto	This textbook introduces the basics of protein structure and logically explains how to use online software to explore the information in protein structure databases. Readers will find easily understandable, step-by step exercises and video-trainings to support them in grasping the fundamental concepts. After reading this book, readers will have the skills required to independently explore and analyze

macromolecular structures, will be versed in extracting information from protein databases and will be able to visualize protein structures using specialized software and on-line algorithms. This book is written for advanced undergraduates and PhD students wishing to use information from structural biology in their assignments and research and will be a valuable source of information for all those interested in applied and theoretical aspects of structural biology.
