

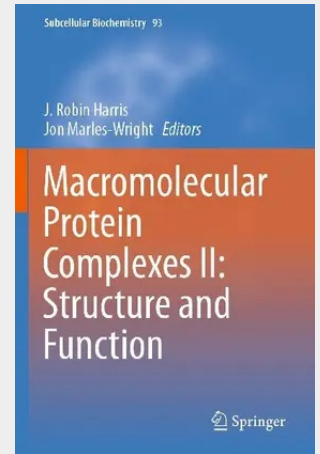
Macromolecular Protein Complexes II: Structure and Function

This book follows on from Volume 83 in the SCBI series ("Macromolecular Protein Complexes"), and addresses several important topics (such as the Proteasome, Anaphase Promoting Complex, Ribosome and Apoptosome) that were not previously included, together with a number of additional exciting topics in this rapidly expanding field of study.

Although the first SCBI Protein Complex book focused on soluble protein complexes, the second (Vol. 87) addressed Membrane Complexes, and the third (Vol. 88) put the spotlight on Viral Protein and Nucleoprotein Complexes, a number of membrane, virus and even fibrillar protein complexes have been considered for inclusion in the present book. A further book is also under preparation that follows the same pattern, in an attempt to provide a thorough coverage of the subject.

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Chapter 1. Introduction: Protein Oligomerization and the Formation of Macromolecular Assemblies.- Chapter 2. Antibody complexes.- Chapter 3. Unravelling ribosome function through structural studies.- Chapter 4. Competence Functions and mechanisms of the human ribosome-translocon complex.- Chapter 5. The Structures of Eukaryotic Transcription Pre-Initiation Complexes and Their Functional Implications.- Chapter 6. Regulation of Antiviral Innate Immunity Through APOBEC Ribonucleoprotein Complexes.- Chapter 7. Structure and Function of the AAA+ ATPase p97, a Key Player in Protein Homeostasis.- Chapter 8. Penicillin-Binding Proteins (PBPs) and bacterial cell wall elongation complexes.- Chapter 9. Structure and function of Roundabout receptors.- Chapter 10. Structure and function of molecular chaperones that govern immune peptide loading.- Chapter 11. Biology and Biochemistry of Bacterial Proteasomes.- Chapter 12. The Kai-protein clock - keeping track of cyanobacteria's daily life.- Chapter 13. Frataxin Structure and Function.- Chapter 14. Crystallins and their complexes.- Chapter 15. Structure and Function of the TREX-2 Complex.- Chapter 16. Amyloid Oligomers, Protofibrils and Fibrils.- Chapter 17. CAD, a multienzymatic protein at the head of de novo pyrimidine biosynthesis.- Chapter 18. The Anaphase Promoting Complex/Cyclosome (APC/C): a versatile E3 ubiquitin ligase.- Chapter 19. TRiC/CCT Chaperonin: Structure and Function.



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