Record Nr. UNINA9910253924003321 Macromolecular Protein Complexes: Structure and Function / / edited **Titolo** by J. Robin Harris, Jon Marles-Wright Cham:,: Springer International Publishing:,: Imprint: Springer,, Pubbl/distr/stampa 2017 **ISBN** 3-319-46503-1 Edizione [1st ed. 2017.] Descrizione fisica 1 online resource (VIII, 572 p. 144 illus., 134 illus. in color.) Subcellular Biochemistry, , 0306-0225;; 83 Collana Disciplina 572.6 Soggetti **Proteins** Protein Science Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references at the end of each chapters and index. Nota di contenuto 1 Structure and function of the stressosome signalling hub. Jan Pané-Farré, Maureen B. Quin, Richard J. Lewis, Jon Marles-Wright -- 2 The Canonical Inflammasome - a macromolecular complex driving inflammation, Tom P. Monie -- 3 The Ferritin superfamily, Alejandro Yévenes -- 4 Antibody Recognition of Immunodominant Vaccinia Virus Envelope Proteins, Dirk M. Zajonc -- 5 The Peroxiredoxin Family: An Unfolding Story, Zhenbo Cao and J. Gordon Lindsay -- 62-Macroglobulins: structure and function, Irene Garcia-Ferrer, Aniebrys Marrero, F. Xavier Gomis-Rüth, Theodoros Goulas -- 7 The Structure and Function of the PRMT5:MEP50 Complex, Stephen Antonysamy -- 8 Symmetry-Directed Design of Protein Cages and Protein Lattices and their Applications, Aaron Sciore and E. Neil G. Marsh -- 9 STRUCTURE AND Funtion RNA Polymerases and the Transcription Machineries, Joachim Griesenbeck, Herbert Tschochner and Dina Grohmann -- 10 Dihydrodipicolinate synthase: Structure, dynamics, function, and evolution, F. Grant Pearce, André O. Hudson, Kerry Loomes, Renwick C.

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## Sommario/riassunto

This volume of the established Subcellular Biochemistry series presents 20 chapters dealing with a broad range of interesting protein complexes. It will enable researchers to readily appreciate the major contribution from both X-ray crystallography and cryo-electron microscopy in this field of study. The biological significance of these structural studies is emphasised throughout the book. The diversity of the material included here indicates the breadth of this field and the tremendous progress that has been made in recent years. The book is directed primarily to advanced students and researchers in structural biology, and others in the biochemical sciences. It will be supplemented by other related books within the Subcellular Biochemistry series. One of the Editors (JM-W) is actively involved in structural biology and the other (JRH), as a retired academic and the Series Editor of Subcellular Biochemistry, has long experience at editing multi-author books.