DESCRIPTION

With the most comprehensive and up-to-date overview of structure-based drug discovery and using experimental and computational approaches, this book covers principles, methods, applications, and emerging paradigms of structural biology as a tool for more efficient drug development.

• Presents the benefits, limitations, and potentiality of novel techniques in the field, like complex crystallization, X-ray diffraction, NMR, mass spectrometry, and computational chemistry

• Assesses macromolecular structures with experimental, analytical, and therapeutic approaches to reveal a successful, multidisciplinary perspective to drug development

• Includes detailed chapters on concepts, like protein dynamics, structure-based chemogenomics and polypharmacology, and fragment-based drug design

• Illustrates advances in biomolecular targeting using case studies and emerging examples: epigenetic proteins, HCV inhibitors, HIV-1 inhibitors, ribosomes, and antibodies
Jean-Paul Renaud, PhD, is the founder and directs RiboStruct, which focuses on rational drug design based on the eukaryotic ribosome. Previously, he was Chief Scientific Officer at NovAliX and the CNRS Research Director in the Structural Biology and Genomics Department at the Institute of Genetics and Molecular and Cellular Biology. Dr. Renaud has over 20 years of research experience, along with several book chapters and articles and 3 patents to his credit.

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