1. Record Nr. UNINA9910893140803321

Titolo	Statistisches Monatsheft Sachsen-Anhalt / Hrsg.: Statistisches Landesamt Sachsen-Anhalt
Pubbl/distr/stampa	Magdeburg ; Halle, : Statistisches Landesamt Sachsen-Anhalt, 1997-2009
Descrizione fisica	Online-Ressource
Disciplina	310
Soggetti	Zeitschrift Statistik
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Gesehen am 03.04.2017

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Titolo	The Next Generation in Membrane Protein Structure Determination / / edited by Isabel Moraes
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-35072-2
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (187 p.)
Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 922
Disciplina	572.696
Soggetti	Proteins Protein Science Protein Structure
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.

Nota di contenuto	Expression Screening of Integral Membrane Proteins by Fusion to Fluorescent Reporters -- Detergents in Membrane Protein Purification and Crystallisation -- NMR of Membrane Proteins: Beyond Crystals -- Characterisation of Conformational and Ligand Binding Properties of Membrane Proteins Using Synchrotron Radiation Circular Dichroism (SRCD) -- Membrane Protein Crystallization: Current Trends and Future Perspectives -- Crystal Dehydration in Membrane Protein Crystallography -- Nonlinear Optical Characterization of Membrane Protein Microcrystals and Nanocrystals -- Exploiting Microbeams for Membrane Protein Structure Determination -- Applications of the BLEND Software to Crystallographic Data from Membrane Proteins -- Serial Millisecond Crystallography of Membrane Proteins -- Serial Femtosecond Crystallography of Membrane Proteins -- Beyond Membrane Protein Structure: Drug Discovery, Dynamics and Difficulties.
Sommario/riassunto	This book reviews current techniques used in membrane protein structural biology, with a strong focus on practical issues. The study of membrane protein structures not only provides a basic understanding of life at the molecular level but also helps in the rational and targeted design of new drugs with reduced side effects. Today, about 60% of the commercially available drugs target membrane proteins and it is estimated that nearly 30% of proteins encoded in the human genome are membrane proteins. In recent years much effort has been put towards innovative developments to overcome the numerous obstacles associated with the structure determination of membrane proteins. This book reviews a variety of recent techniques that are essential to any modern researcher in the field of membrane protein structural biology. The topics that are discussed are not commonly found in textbooks. The scope of this book includes: Expression screening using fluorescent proteins The use of detergents in membrane protein research The use of NMR Synchrotron developments in membrane protein structural biology Visualisation and X-ray data collection of microcrystals X-ray diffraction data analysis from multiple crystals Serial millisecond crystallography Serial femtosecond crystallography Membrane protein structures in drug discovery The information provided in this book should be of interest to anyone working in the area of structural biology. Students will find carefully prepared overviews of basic ideas and advanced protein scientists will find the level of detail required to apply the material directly to their day to day work.