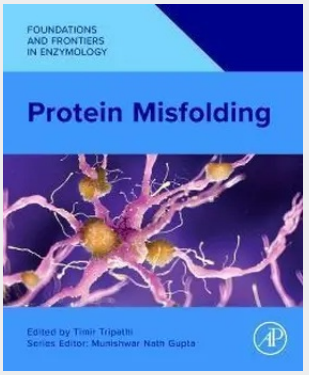
Tripathi

Protein Misfolding

Protein Misfolding explores the structural and biochemical foundations of protein misfolding, highlighting its wide-reaching implications for cellular function, disease progression, and biomedical innovation. This book provides a comprehensive understanding of how proteins deviate from their native conformations and the resulting biological consequences. Focusing on both physiological and pathological misfolding, the volume covers essential topics such as folding quality control, molecular chaperones, degradation pathways, and proteostasis. It presents in-depth analyses of protein aggregation mechanisms, amyloid formation, and misfolding-associated diseases including Alzheimer's, Parkinson's, and prion-related disorders. Additional chapters explore structural approaches to understanding misfolded states, computational modeling of aggregation kinetics, and current efforts to design therapeutics that restore folding homeostasis or prevent toxic accumulation. The book also addresses the cellular response to misfolding stress and the integration of folding dynamics with cellular signaling pathways. This book is a valuable resource for researchers, educators, and professionals in biochemistry, structural biology, molecular medicine, biotechnology, and related disciplines. It supports efforts to understand the fundamental principles of protein structure and function, while offering insight into emerging therapeutic strategies and future research directions in disease-focused protein science.



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