How protein chaperones protect cells from neurodegenerative diseases

Including contributions from leading experts, Protein Chaperones and Protection from Neurodegenerative Diseases provides an in-depth exploration of how protein chaperones are involved in shielding cells from toxic aggregated or misfolded protein states that cause ALS, Parkinson's, and related diseases.

Examining how different protein chaperones ameliorate the toxicity of proteins that are known to cause neurodegenerative damage, the book addresses both research and clinical perspectives on chaperone and anti-chaperone properties. The intersection of molecular chaperones and neurodegeneration is an intensely studied area, partly because of the potential for manipulating the expression of molecular chaperones to thwart the progression of debilitating diseases, and partly because of the ever-aging global population.

Discussing the potential to harness the power of protein chaperones, and future directions for research, discovery, and therapeutics, this book is essential reading for scientists working in the fields of biochemistry, molecular medicine, pharmacology and drug discovery, biotechnology and pharmaceutical companies, advanced students, and anyone interested in this cutting-edge topic.
ABOUT THE AUTHOR

Stephan N. Witt is a Professor in the Department of Biochemistry and Molecular Biology at the Louisiana State University Health Sciences Center in Shreveport, Louisiana. He obtained his PhD in biophysical chemistry from the California Institute of Technology. Dr. Witt is a member of the editorial board of Cell Stress and Chaperones. He has served on numerous NIH study sections, has authored over forty scientific publications, and edited a book on using yeast as a model for human disease. His research focuses on identifying genes and small molecules that can be used against Parkinson's disease.

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