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Protein Targeting, Transport, and Translocation presents an in-depth overview on the topic of protein synthesis, covering all areas of protein science, including protein targeting, secretion, folding, assembly, structure, localization, quality control, degradation, and antigen presentation. Chapters also include sections on the history of the field as well as summary panels for quick reference. Numerous color illustrations complement the presentation of material. This book is an essential reference for anyone in biochemistry and protein science, as well as an excellent textbook for advanced students in these and related fields.

- Basic principles and techniques
- Targeting and sorting sequences
- Protein export in bacteria
- Membrane protein integration into ER and bacterial membranes
- Protein translocation across the ER
- Disulfide bond formation in prokaryotes and eukaryotes
- Quality control in the export pathway
- Import of proteins into organelles
- The secretory pathway
- Vesicular transport
- Spectacular color throughout

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Editorial Review

Review

"...Dalbey et al. have summed up what has happened so far in a rapidly moving field of modern cellular biochemistry." --**EUROPEAN JOURNAL OF CHEMICAL BIOLOGY, 2003**

"Overall this book provides good summaries of what we know about how proteins are moved between intracellular compartments and how we have studied this problem. Students or anyone wanting to know more about protein trafficking, particularly protein translocation across membranes, will find it a useful guide." --**CELL, 2002**

From the Back Cover

The Most Comprehensive And Definitive Work on Protein Targeting, Transport and Translocation!

The mechanisms of protein synthesis are well known. However, once synthesized, proteins must be transported across membranes and/or be directed towards other sites or macromolecular structures in order to function. Exactly how they achieve this, in what can be a hostile environment, is a matter of much current interest. Written by experts in the field, **Protein Targeting, Transport & Translocation** provides a current and exciting synthesis of this fast-moving, and hot topic.

Protein Targeting, Transport & Translocation is a must for researchers working in all areas of protein science including protein targeting, secretion, folding, assembly, structure, localization, quality control, degradation and antigen presentation. This book is essential reading for senior undergraduate/postgraduate students studying biochemistry, protein science, cell biology, molecular biology, biophysics, biotechnology, microbiology, chemistry and pharmacology.

About the Author

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Gunnar von Heijne, Stockholm University, Sweden

Users Review

From reader reviews:

James Connell:

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