

Frontiers in Molecular Biology is a series of books designed to report on rapidly evolving, key areas of research in molecular biology. Individual chapters are written by leading researchers who are specialists in their fields. Each book is carefully organized to provide an integrated analysis of current progress in the area covered.

This volume addresses one of the fundamental problems of cell biology, namely how proteins are sent to, and maintained at, their correct destinations. Individual chapters provide up-to-date information on protein targeting to different cell organelles; the nucleus, mitochondria, peroxisomes, endoplasmic reticulum, and the Golgi complex. Topics covered include the targeting sequences that act as molecular address tags, the receptors that recognize them, and the role of molecular chaperones. Other chapters focus on how proteins are targeted to organelles that communicate with one another during membrane trafficking in the secretory and endocytic pathways.

Protein Targeting is a major publication of interest to a wide spectrum of readers in cell and molecular biology. It contains over 1000 references and provides a comprehensive review of the field as well as valuable insights and predictions of future progress by leading researchers in the area.

Cover illustration: Model of signal hypothesis for protein translocation into the endoplasmic reticulum. Picture kindly provided by Ann Corsi, University of California at Berkeley, CA.

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