



STRUCTURAL ASPECTS OF PROTEIN SYNTHESIS

This comprehensive and highly illustrated book provides a basic and up-to-date summary of translation on bacterial ribosomes, with emphasis on the structural insights. It presents the ribosome and its functional activities in a coherent manner. Two types of illustrations are used to describe the translation field: simplified black-and-white illustrations to depict aspects of translation and color plates to give correct structural representations.

The book presents essentially all aspects of the translation system, focusing on the relation between structure and function. Upper level undergraduates and graduate students with an interest in protein synthesis will find this lecture notes volume invaluable. The book is also an essential source of information for researchers who want to get an overview of translation.

Key Features

- Summarizes the basic insights into ribosome structure and function
- Highly illustrated with simplified drawings and color plates to present all the major steps of protein synthesis
- Includes an extensive and up-to-date list of references.

About the Author

Anders Liljas obtained his Ph.D. in Chemistry and his docentur in Molecular Biology from the University of Uppsala, Sweden in 1971. In 1988 he became a full professor of Molecular Biophysics at Lund University. During 1993-2003 he was Dean, Chemistry Section of the Mathematics and Natural Science Faculty, and Deputy Dean at the Mathematics and Natural Science Faculty, Lund University. He has been Director of the Lund Center for Biomolecular Structure and Dynamics and Coordinator for structural biology within the SWEGENE consortium. His scientific interests include: protein and nucleic acid structure, in particular molecules involved in protein synthesis; enzymes; and protein crystallography at synchrotrons. He has been a member of the Nobel Prize Committee for Chemistry, from 1995 - 1998 and then from 2001.



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