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Subunits at Atomic Resolution; 2.4 The Domain Structure of the Ribosomal Subunits

2.5 Interactions of RNA with RNA or Struts and Bolts in the Three-dimensional Fold of rRNA: Coaxial Stacking and A-minor Motifs

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2.7.2 Chemistry of RNA-protein Interactions

2.7.3 rRNA-protein Interaction; References; 3 Ribosome Assembly; 3.1 Assembly Of The Prokaryotic Ribosome; 3.1.1 Introduction; 3.1.2 Processing of rRNAs; 3.1.3 Precursor Particles and Reconstitution Intermediates; 3.1.4 Assembly-initiator Proteins; 3.1.5 Proteins Essential for the Early Assembly: The Assembly Gradient; 3.1.6 Late-assembly Components; 3.1.7 Proteins Solely Involved in Assembly; 3.1.8 Assembly Maps; References; 3.2 Eukaryotic Ribosome Synthesis; 3.2.1 Introduction; 3.2.1.1 Prelude; 3.2.2 Why so many RRP's?

3.2.3 (Pre-)ribosome Assembly, the Proteomic Era

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3.2.6.2 Non-core snoRNP Proteins required for snoRNA Accumulation

Sommario/riassunto

Knud Nierhaus, who has studied the ribosome for more than 30 years, has assembled here the combined efforts of several scientific disciplines into a uniform picture of the largest enzyme complex found in living cells, finally resolving many decades-old questions in molecular biology. In so doing he considers virtually all aspects of ribosome structure and function -- from the molecular mechanism of different ribosomal ribozyme activities to their selective inhibition by antibiotics, from assembly of the core particle to the regulation of ribosome component synthesis. The result is a premier
