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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

2.5.1 Coaxial Stacking; 2.5.2 A-minor Motifs; 2.5.3 Ribose Zippers and Patches of A-minor Motifs; 2.5.3.1 Canonical Ribose Zipper; 2.5.3.2 Single-base Ribose Zipper; 2.6 Progress and New Developments in Understanding rRNA Structures; 2.6.1 K-turn; 2.6.2 Lonepair Triloop; 2.6.2.1 Classification of Lonepair Triloops; 2.6.3 Systemizing Base Pairs; 2.6.4 Systemizing RNA Structural Elements; 2.7 RNA-protein Interactions; 2.7.1 Problem of RNA Recognition

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

3.2.4 Ribosomal RNA Processing, Getting there...; 3.2.5 Ribosomal RNA Modification: A Solved Issue?; 3.2.5.1 Ribose Methylation, Pseudouridines formation and the snoRNAs; 3.2.5.2 The Emergence of the snoRNAs; 3.2.5.3 Non-ribosomal RNA Substrates for the snoRNAs; 3.2.5.4 Possible function(s) of RNA modifications; 3.2.5.5 Base methylation; 3.2.5.6 U3 snoRNP, the 'SSU Processome', and the Central Pseudoknot; 3.2.6 SnoRNA Synthesis and Intranuclear Trafficking; 3.2.6.1 SnoRNAs Synthesis

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

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Sommario/riassunto	The only official CCSP practice test product endorsed by (ISC) ² With over 1,000 practice questions, this book gives you the opportunity to test your level of understanding and gauge your readiness for the Certified Cloud Security Professional (CCSP) exam long before the big day. These questions cover 100% of the CCSP exam domains, and include answers with full explanations to help you understand the reasoning and approach for each. Logical organization by domain allows you to practice only the areas you need to bring you up to par, without wasting precious time on topics you've already mastered. As the only official practice test product for the CCSP exam endorsed by (ISC) ² , this essential resource is your best bet for gaining a thorough understanding of the topic. It also illustrates the relative importance of each domain, helping you plan your remaining study time so you can go into the exam fully confident in your knowledge. When you're ready, two practice exams allow you to simulate the exam day experience and apply your own test-taking strategies with domains given in proportion to the real thing. The online learning environment and practice exams are the perfect way to prepare, and make your progress easy to track.

