

PROTEIN FOLDING BY RIBOSOME — A SEARCH FOR MOLECULAR SELECTION PRESSURE

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We present a schematic view of protein folding on the peptidyl transferase centre (PTC) of the ribosome after they are synthesized there. The PTC is made of only part of the ribosomal RNA. The scheme is developed on the basis of experimental results only without imposing any theoretical bound on the system. The folding takes place as a result of interaction between specific nucleotides in the PTC and amino acids in the polypeptide chains. This reduces the protein folding problem drastically in space and time as discussed below.
