

Translation, post-translational processing of proteins in eukaryotes

Translational machinery: mRNA, ribosomes, rRNA, tRNA, aminoacyl-tRNA synthetases, amino acids, initiator tRNA, eukaryotic initiation factors, peptidyl transferase, elongation factors, release factors

From RNA to protein: codon, anticodon, initiation, elongation, stop codons, growing polypeptide chain Post-translation processing: protein folding, noncovalent bonds, molecular chaperones, final conformation, covalent addition of a smaller molecule - protein phosphorylation, glycosylation