AA = Amino Acid

Translation

What is it? What does it require?

Polymerizing AA into Polypertide chains

Describe the Small and large subunit of ribosomes.

1 Arge - 23 5 RNA (higgest & most important) Small - lus RNA = baderia 105 RNA = Euhayotes

Which srna is used for bacteria sequencing?

1US RNA

What is tRNA and what does it mean by charging? What charges it?

has the 3 hibonucleotide opposite of strand Used to metch code to correct AA charging = Adding corred AA (by Amindacy) +RMA synthetase)

What is required for initiation?

small & large subunit MRNA instation factors charged JRNA What is the shine-Dalgarno sequence? ACIGACIG - Before Aug tells JANA Where Avais

Describe the 3 sitse of the ribosome. What does each do?

A = enter

p = peptide bond furmed E = exit

Describe termination

Stup codons CITP - helps release strand from complex

mants wi many moosumes translating at once What are polysomes?

Describe translation of eukaryotes.

- in aytoplasm
- Mozah sequence
- Needs more factors
- ribosomes Not free floating
- -c105ed 100P

What is a closed loop translation?

- Poly A tail "holds hands" W Mg CEP



We talked about errors in metabolism. Define the two we talked about.

Alkapton uria- con't metabolize alhapton

Phenylhetonuria- cont convert phenylalanine to 1910 sine (can cause mental retaidation) What is the relationship between polypeptides and proteins?

Polypeptides form Proteins

Describe Amino Acids (AA).

How are peptide bonds formed?

Dehydration from carboxy to Amino of another AA

Describe the 4 protein structure levels.

Primary- Vinear se condary - alpha helic & beta sheets (hydregen bond) tertian - 3D quaternay-many poly petide chains Chemoglobin)

Describe post-translational modifications.

Modifying chains to make them functional

Describe protein folding.

require chaperone proteins can cause prions shape-function

What are the diseases of protein folding. Describe them and their clinical signs.

Scrapie-sheeps, PrPSc aggregation, 3 steps

BSE: COW, from eating infeded fissue, causes vCDD in People

weight 1055, aggression, behavioral changes, tranors death

The end of this chapter talked about the "diverse role of proteins". Please list a few of these roles.

Structural, contractile, hormones, enzymes, transport Protein, and histones