

AMINO ACID UTILIZATION

Build new tissue protein

Replace old tissue protein

Replace hemoglobin, synthesize heme (lifetime ~ 4 months)

Synthesize peptide hormones

Synthesize enzymes (lifetime ~ hours to days)

Donate amino group for synthesis of other amino acids

Catabolize C skeleton for energy (~ 10% energy from amino acids)

Synthesize nucleotides

Synthesize neurotransmitters, amino acid derived hormones