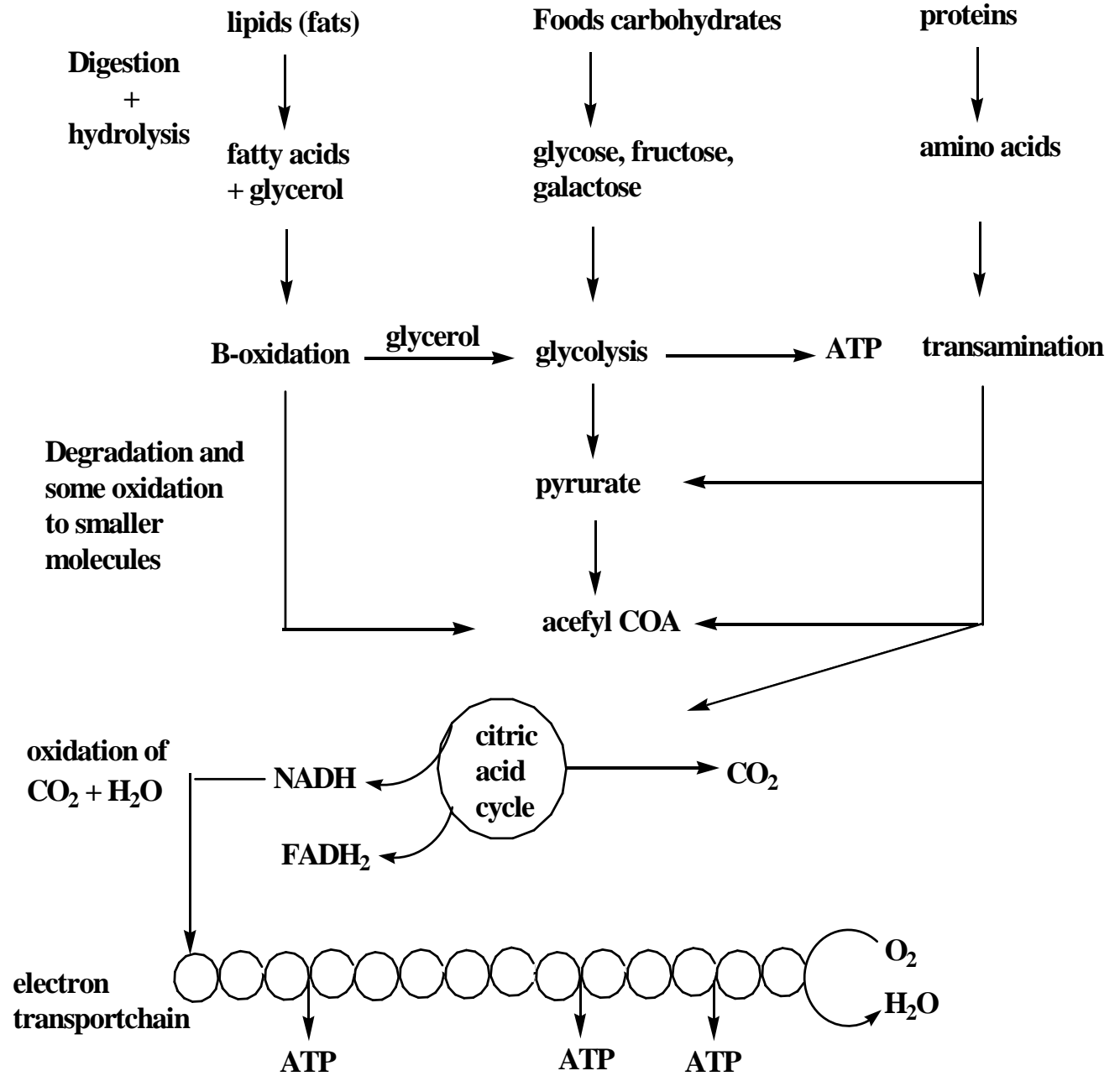


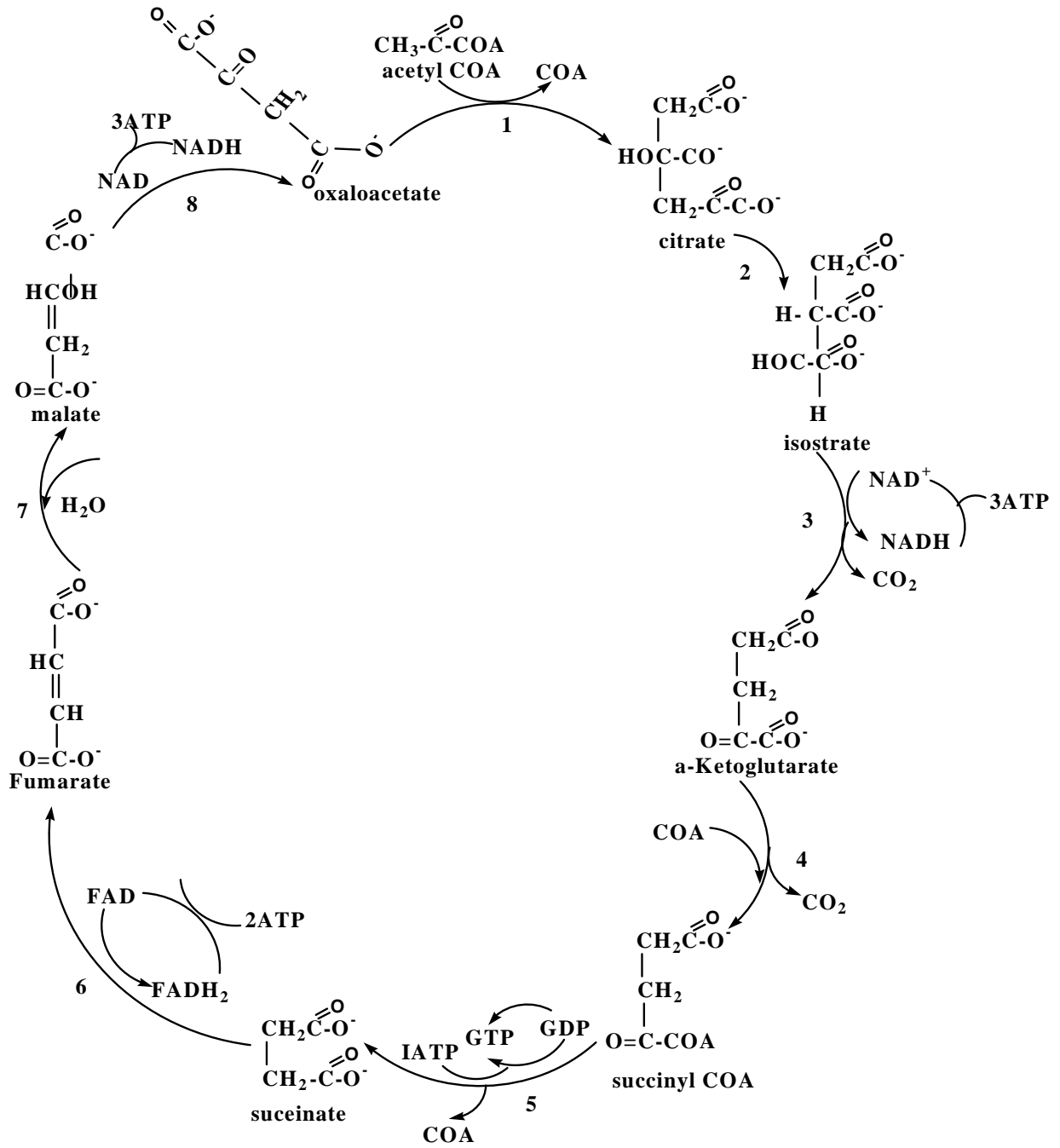
### **Catabolic Reactions:**

Catabolic reaction begin with digestion. The process of breaking down carbohydrates, fats and proteins in the intestinal tract. The products, amino acids, fatty acids, and monosaccharide's, are absorbed into our cells where they are oxidized when we need energy. The energy released by catabolism is linked with the synthesis of ATP, which stores energy. Although different metabolic pathways are used to extract energy, their carbon, hydrogen, and oxygen atoms are eventually found in the oxidation products CO<sub>2</sub> and H<sub>2</sub>O.

The Electron Transport chain:

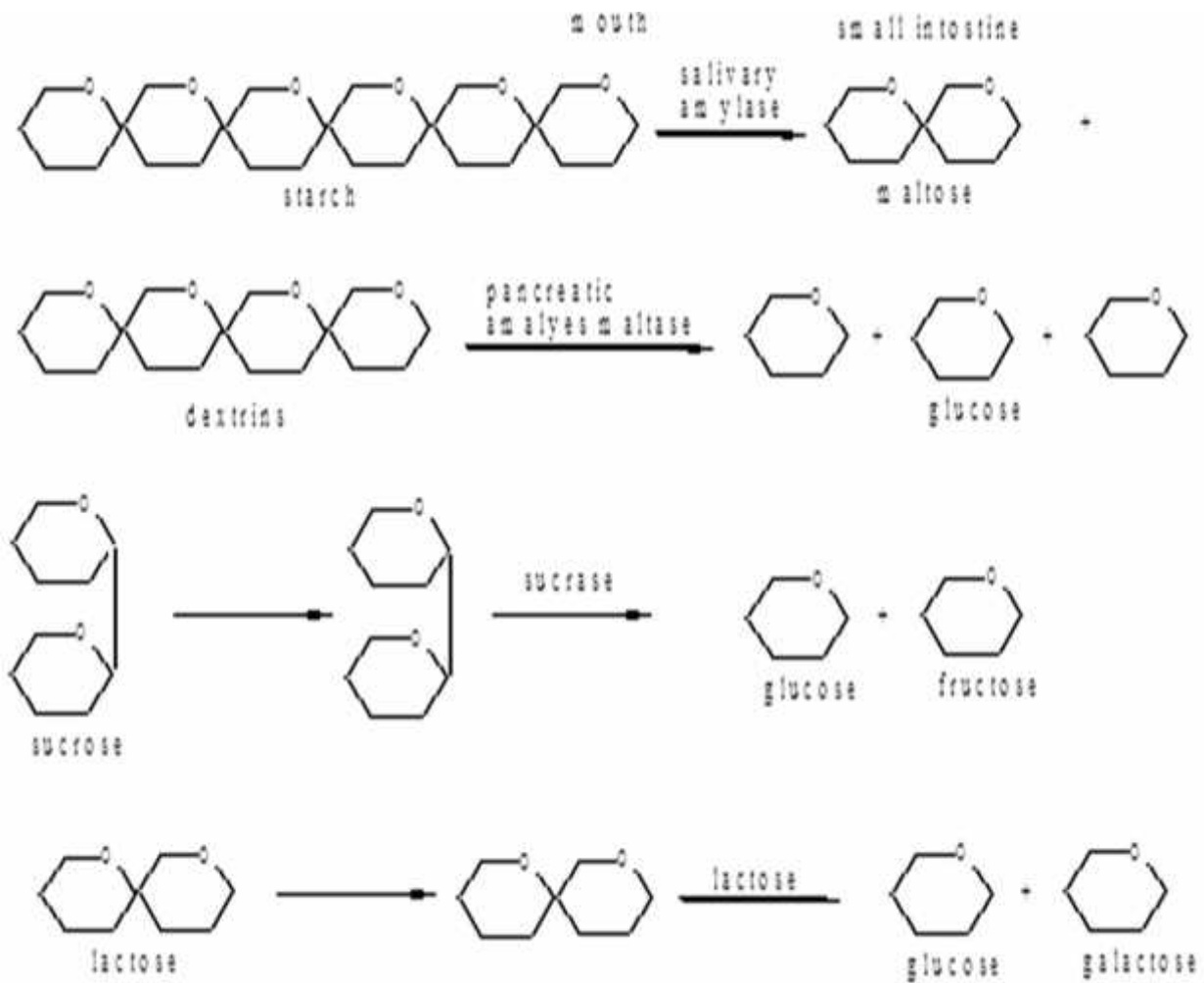


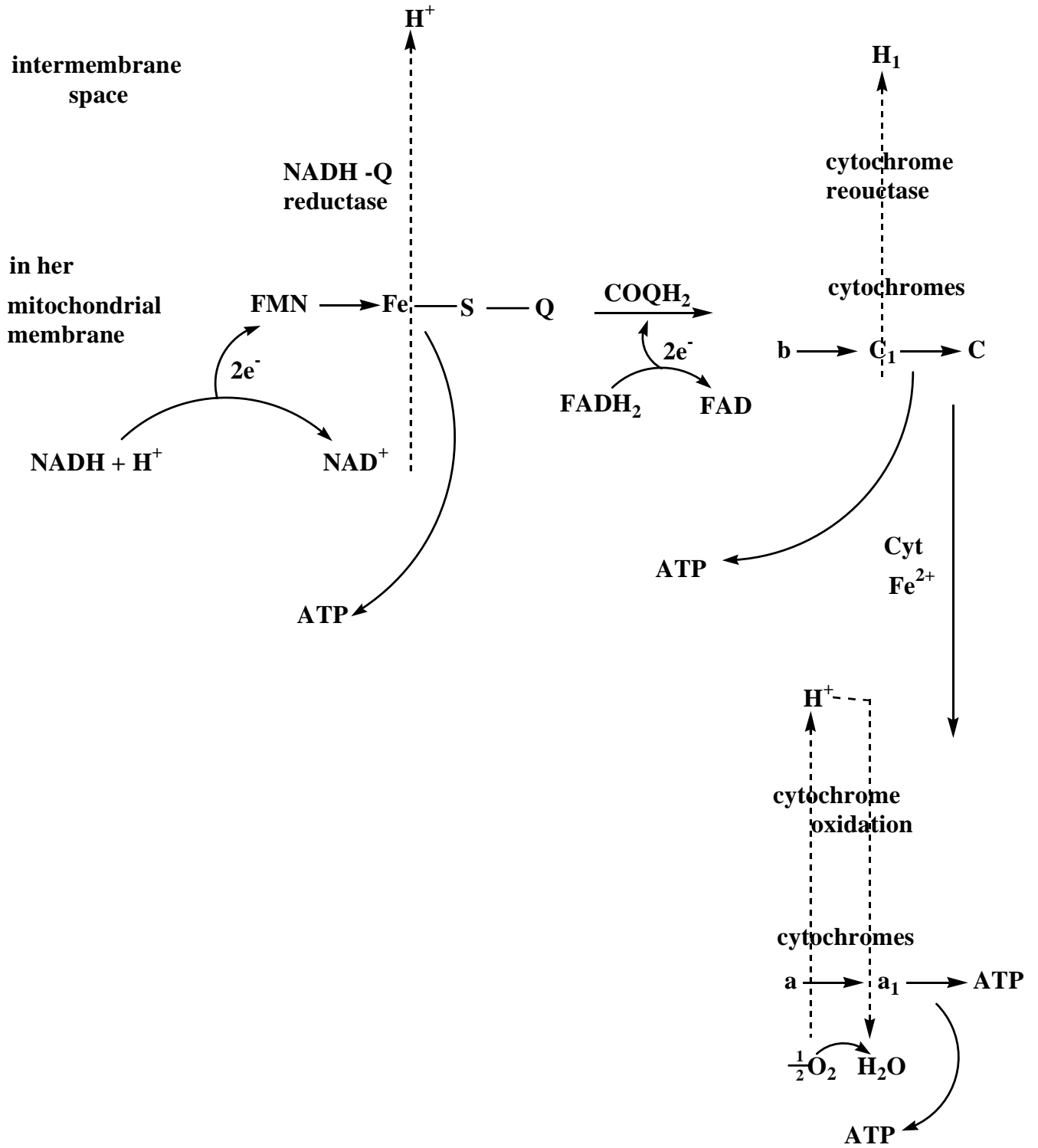
Citric acid cycle or Krebs cycle or (TCA) :-



## Digestion of Foods:

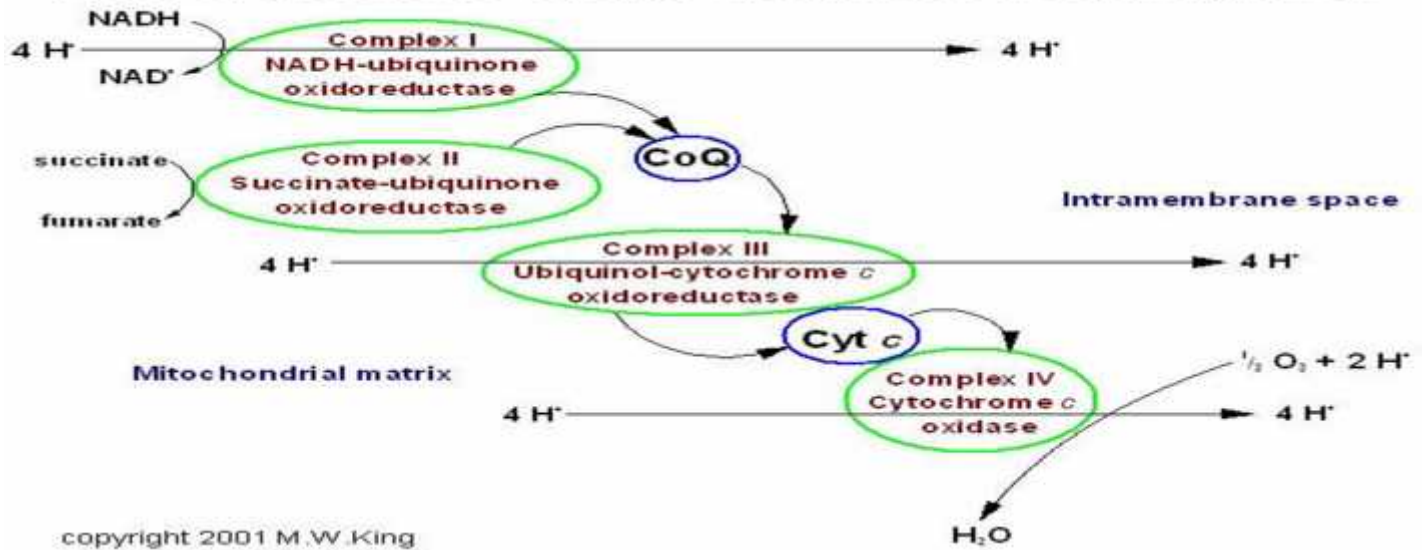
### Digestion of carbohydrates:



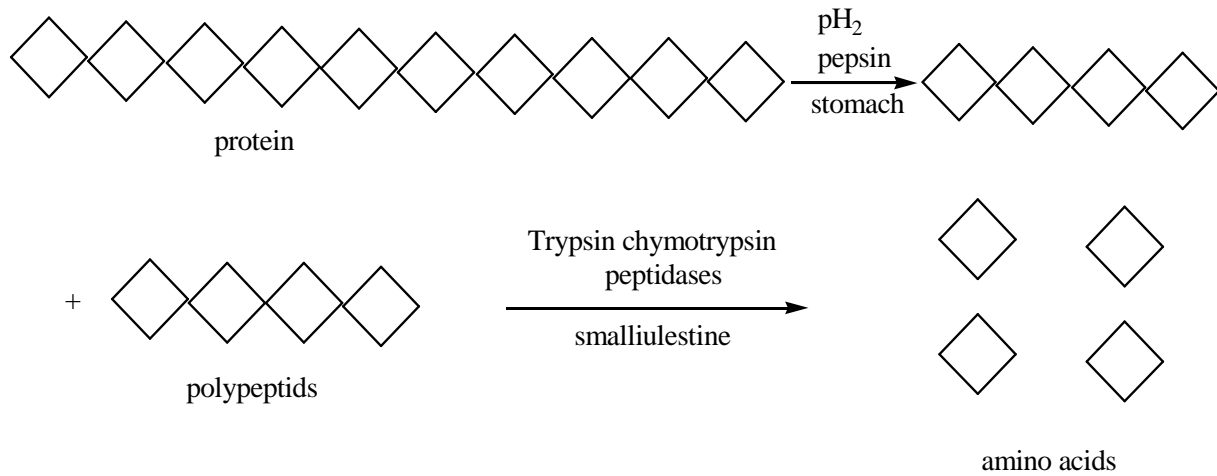


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## Flow of Electrons During Oxidative Phosphorylation



### Digestion of proteins:



### Digestion of Lipids:

