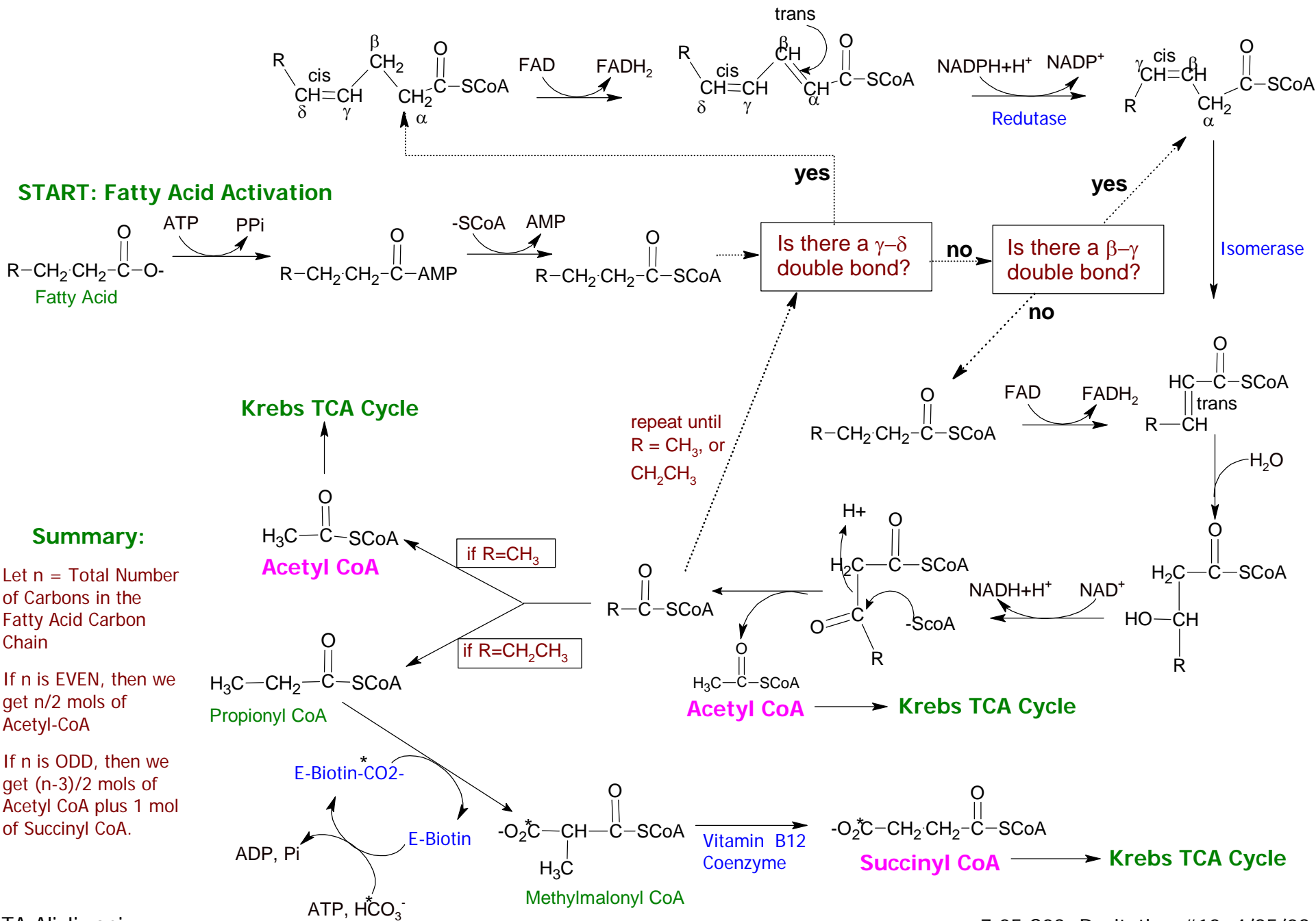


Fatty Acid Oxidation



Fatty Acid Biosynthesis (cont)

Chain Elongation for Fatty Acids with Carbon Chain longer than 16Cs

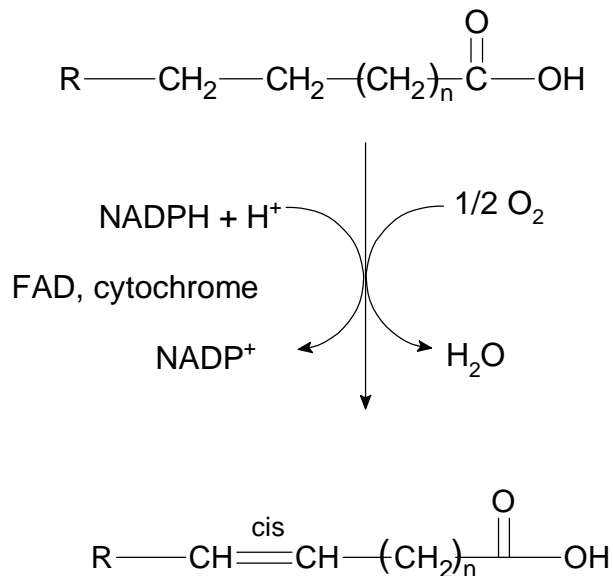
In Mitochondria:

Carbons are added two at a time. Mechanism is the REVERSE of Fatty Acid Metabolism, except NADPH is used instead of NADH.

In Cytosol:

Carbons are added two at a time. Mechanism is similar to fatty acid Biosynthesis, except that SCoA is used in place of SACP.

Desaturation of Fatty Acids



Note: Animals cannot put a double bond between the end methyl carbon and the 6th carbon removed from the methyl carbon.