**Comprehensive homework**

Based on what have you learned so far, please try to build the network of metabolic reactions involving carbohydrates, lipids, amino acids and nucleotides.

(You can use Fig. 15-1 for reference)

1). Major metabolites and key enzymes should be included for each pathway.

2). The coordinated regulation of oxidation and biosynthesis should be included.

3). It is important to pinpoint the interconnections among different pathways.

**Group discussion and team work are encouraged**. Excellent homework will have the chance to be presented in class.

**Due date: December 23, 2018**