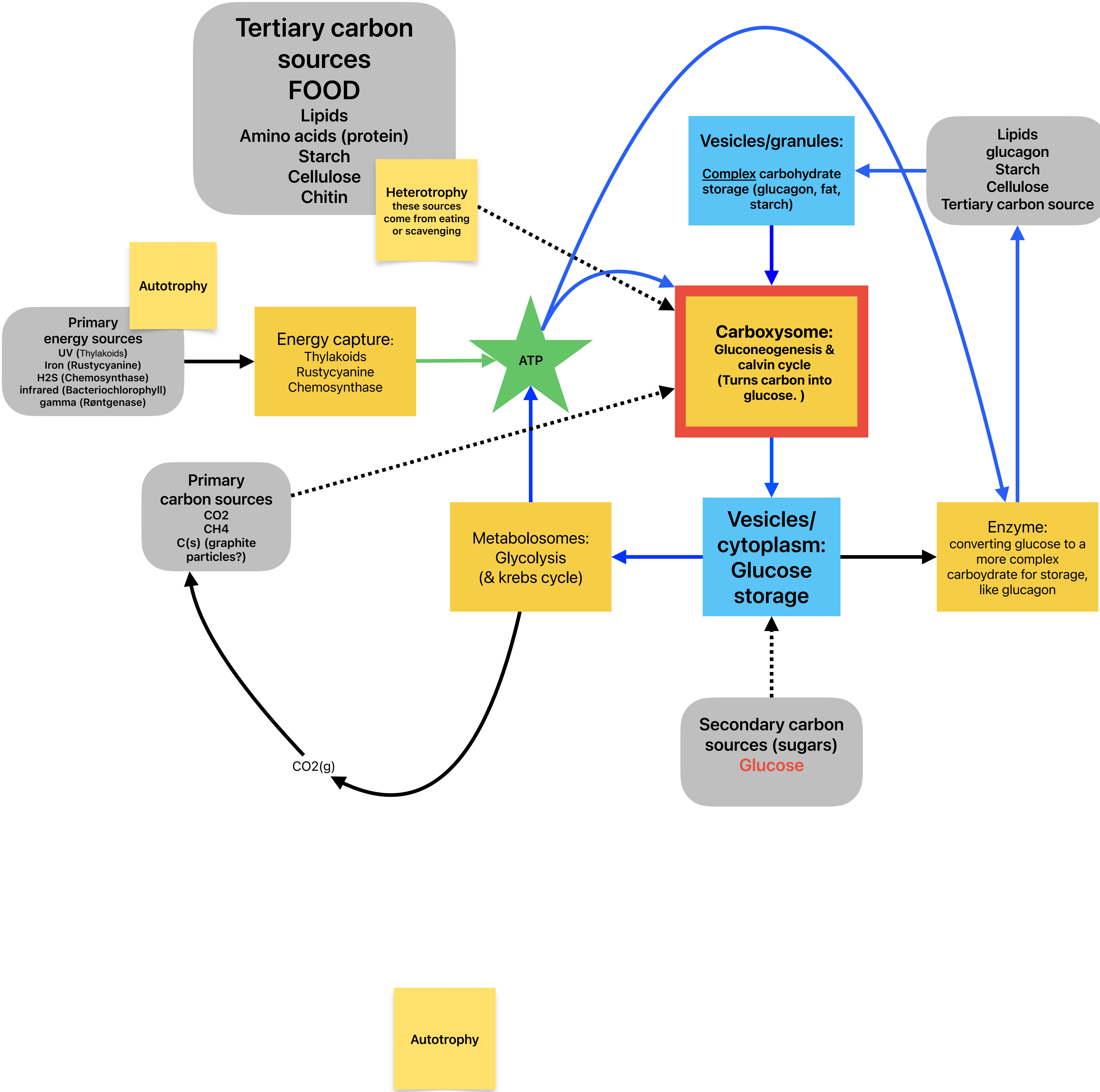


Super simplified glucose-generating organelle system

The blue lines show the glucose-glucose loop



Here, the calvin cycle and gluconeogenesis is smushed together.

The calvin cycle is the generation of glucose from carbon dioxide.

Gluconeogenesis is the generation of glucose from non-sugar carbon substrates such as pyruvate, (S)-lactate, glycerol, and glucogenic amino acids (primarily L-alanine and L-glutamine). The process is essentially the reversal of the glycolysis pathway.