

Module 16: Glycogen Metabolism

Glucose in the Body

- When blood glucose concentration is high, muscle and liver form glycogen
- Glycogen stores the glucose as a backup -- stored in the liver and muscles
 - Muscles for work
 - Liver for when blood glucose dips
- Glycogen synthesized in the liver and muscles
 - Synthesized through **G6P** which can have multiple fates
- When blood glucose decreases
 - Muscles: break down glycogen for internal use
 - Liver: regulate blood glucose concentration

Glycogen Structure

- Characterized by α -(1 \rightarrow 4) glycosidic bonds which form chains that have α -(1 \rightarrow 6) linked branches every 8-14 residues
- Stored in large amounts in liver and smaller amounts within the muscle
- Glucose units stretch from one end to the other
- **Reducing end**
 - Anomeric carbon can perform reduction reaction
 - These are linked through alpha (1 \rightarrow 4) linked
- Anomeric carbon in linkage is non-reducing



Glycogen Synthesis Enzymes

1. **UDP-glucose pyrophosphorylase**
2. **Glycogen synthase**
3. **Glycogen branching enzyme**

Phosphoglucomutase

- Glucose enters by GLUT
 - Converted to G6P by hexokinase or glucokinase
 - Enters glycolysis if glucose levels are high
 - Large surplus of glucose, then there are sufficient glucose molecules to meet glycolysis requirements and surplus glucose is prepared for storage in glycogen
- **G6P is converted to G1P by phosphoglucomutase**
- Step 1: Phosphorylation of the substrate at C1-OH
- Step 2: phosphorylation of the enzyme by the phosphoryl group at C6 of the substrate

UDP-glucose Pyrophosphorylase

- **UDP-glucose pyrophosphorylase** catalyzes the reaction to convert G1P into UDP-Glucose (UDPG)
- Overall reaction without hydrolysis of PP has $\Delta G=0$
- Reaction
 - G1 nucleophilic attack on alpha phosphate of UDP
 - Beta and gamma phosphate leave as pyrophosphate

General Science Module 14 Study Guide Answers

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