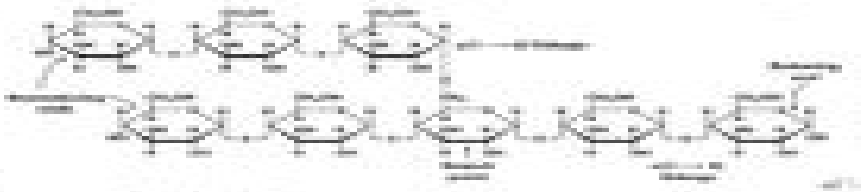
Module 16: Glycogen Metabolism

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→4) **glycosidic bonds** which form chains that have α-(1→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→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 surface 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 ΔG=0**
- Reaction
  - **G1 nucleophilic attack on alpha phosphate of UTP**
  - Beta and gamma phosphate leave as **pyrophosphate**

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