

1. **Electron transport chain:** A series of redox reactions that transfer electrons from NADH and FADH<sub>2</sub> to oxygen. (1)

2. **ATP synthase:** A protein complex that uses the proton gradient to synthesize ATP from ADP and inorganic phosphate. (2)

3. **Proton motive force:** The energy stored in the proton gradient across the membrane, which drives the synthesis of ATP by ATP synthase. (3)

4. **Chemiosmosis:** The process by which the proton gradient is used to drive the synthesis of ATP. (4)

5. **Oxidative phosphorylation:** The overall process of generating ATP from the electron transport chain and chemiosmosis. (5)

6. **Cellular respiration:** The overall process of converting glucose into ATP through glycolysis, the citric acid cycle, and oxidative phosphorylation. (6)

