

Integration of Metabolism

Syllabus

1. Medical and biological importance state.
2. Metabolic changes in liver in well fed state.
 - 2.1. Insulin affects carbohydrate and lipid metabolisms in liver in well-fed state.
 - 2.2 Carbohydrate Metabolism.
 - 2.3 Lipid Metabolism.
 - 2.4 Amino acid Metabolism.
3. Metabolic changes in adipose tissue in well fed state
 - 3.1 Carbohydrate metabolism
 - 3.2 Lipid Metabolism
4. Metabolic changes in skeletal muscle in well-fed state
5. Obesity
 - 5.1. Dangers of obesity and Treatment
6. Starvation
 - 6.1. Metabolic changes in starvation
 - 6.2. Biochemical and Clinical symptoms of starvation
7. Diabetes Mellitus
 - 7.1. Juvenile (onset) diabetes or insulin-dependent diabetes (IDDM) or Type I diabetes
 - 7.2. Adult (onset) diabetes or non-insulin dependent diabetes (NIDDM) or type II diabetes
 - 7.3. Biochemical and clinical symptoms
 - 7.4. Chronic effects of diabetes mellitus
 - 7.5. Metabolic changes in diabetes mellitus