

Lecturer Title:

- 1- Bioenergetics.
- 2- Biologic oxidation.
- 3- The respiratory chain and oxidative phosphorylation.
- 4- Over view of metabolism.
- 5- Citric acid Cycle.
- 6- Glycolysis.
- 7- Metabolism of glycogen.
- 8- Gluconeogenesis.
- 9- Pentose phosphate pathway and other pathways of hexose metabolism.
- 10- Biosynthesis of fatty acids.
- 11- Oxidation of fatty acids.
- 12- Metabolism of acylglycerol and sphingolipids.
- 13- Lipid transport and storage.
- 14- Cholesterol synthesis, transport, and excretion.
- 15- Biosynthesis of the Nutritionally Nonessential Amino Acids.
- 16- Catabolism of Proteins & of Amino Acid Nitrogen
- 17- Catabolism of the Carbon Skeletons of Amino Acids.
- 18- Conversion of Amino Acids to Specialized Products.
- 19- Porphyrins & Bile Pigments