

Topics for the evaluation of knowledge
ANABOLISM AND CATABOLISM OF LIPIDS

1. Lipids with physiological meaning
2. Digestion and absorption of lipids
3. The fate of absorbed lipids
4. Biosynthesis of fatty acids (schemes, enzymes, biological meaning)
5. Biosynthesis of lipids (schemes, enzymes, biological meaning)
6. Beta oxidation of fatty acids (schemes, enzymes, biological meaning)
7. Activation of fatty acids and the entrance to mitochondrial matrix
8. Energetic effects of beta oxidation example: palmitic acid
9. Metabolism of glycerol
10. Similarities and differences between anabolism and catabolism of fatty acids
11. Ketogenesis (schemes, enzymes, use of ketone bodies)
12. Pathological Ketosis
13. Metabolic pathways of acetyl-CoA
14. General overview of synthesis of cholesterol
15. The relationship between the metabolism of polysaccharides and lipids
16. The relationship between the metabolism of polysaccharides and lipids in Krebs cycle
17. The integration of metabolism of polysaccharides and lipids based on selected cases (on line didactic materials in Casus programme)

