



عناوين موضوعات الأبحاث الخاصة بمادة الكيمياء الحيوية **Bioc** الفرقة الثانية / الفصل الدراسي الثاني / مايو 2020م

1. Protein digestion and absorption of amino acids.
2. Types of deamination reactions.
3. Catabolism of carbon skeleton of amino acids.
4. Urea cycle and its regulation and disorders.
5. Ammonia metabolism.
6. Ammonical encephalopathy.
7. Glycine metabolism.
8. Alanine metabolism.
9. Hydroxy amino acids metabolism.
10. Methionine metabolism.
11. Cysteine metabolism.
12. Phenylalanine metabolism.
13. Metabolic disorders of Phenylalanine metabolism.
14. Tryptophan metabolism.
15. Acidic amino acids metabolism.
16. Histidine metabolism.
17. Basic amino acids metabolism.
18. Branched chain amino acids metabolism.
19. Biosynthesis of purines.
20. Catabolism of purines and its metabolic disorders.
21. Hyperuricemia.
22. Gout.
23. Metabolism of pyrimidines.
24. Classification and general functions of hormones.



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25. General mechanisms of hormonal action.
26. Hypothalamic hormones and their functions.
27. Anterior lobe pituitary hormones and their functions.
28. Middle lobe pituitary hormones and their functions.
29. Posterior lobe pituitary hormones and their functions.
30. Thyroid hormones metabolism and its metabolic disorders.
31. Parathyroid hormones metabolism and its metabolic disorders.
32. Calcium regulating hormones.
33. Pancreatic hormones metabolism and its metabolic disorders.
34. Glucose regulating hormones.
35. Catecholamines metabolism.
36. Metabolism of glucocorticoids.
37. Metabolism of mineralocorticoids.
38. Heme biosynthesis and its regulation.
39. Heme catabolism.
40. Thalassemia.
41. Jaundice.
42. Porphyria.
43. Hyperbilirubinemia.
44. Goiter.
45. Phenylketonuria.
46. Alkaptonuria.
47. Tyrosinemia.
48. Hartnup disease.



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49. Maple syrup urine disease.
50. Orotic-aciduria.
51. Salvage pathway of purines synthesis.
52. Special products synthesized from glycine.
53. Special products synthesized from tyrosine.
54. Special products synthesized from tryptophan.
55. Special products synthesized from histidine.
56. Special products synthesized from glutamic acid.
57. Special products synthesized from cysteine.
58. Vitamins synthesized from amino acids.
59. Hormones synthesized from amino acids.
60. Amino acid specific for transmethylation reactions.