

Viro

قائمة بعناوين الأبحاث المطلوبة من الطلاب والخاصة بقسم الفيروسولوجيا

- 1- Full assay on criteria for classification of viruses.
- 2- Full assay on family Orthomyxoviridae , involve general properties, structural morphology, viral genome and genomic organization, viral proteins, physical properties(shape, size,) chemical properties (viral proteins, capsid, envelope also Antigenic property, Haemagglutination property, lab. diagnosis of one virus of this family.
- 3- Biological characters and cultural characters of Avian influenza virus (Include: Multiplication Cycle, Haemagglutination and cultivation on experimental hosts or isolation).
- 4- Laboratory diagnosis of Avian influenza virus (Include: suitable samples, type of host of isolation, serological tests for detection and identification -physical and chemical properties (shape, size, nucleic acid, capsid, envelope), haemagglutination property, antigenic characters).
- 5- Biological characters and cultural characters of Equine influenza virus (Include: Multiplication Cycle, Haemagglutination and cultivation on experimental hosts or isolation).
- 6- Laboratory diagnosis of Equine influenza virus (Include: suitable samples, type of host of isolation, serological tests for detection and identification -physical and chemical properties (shape, size, nucleic acid, capsid, envelope), haemagglutination property, antigenic characters).
- 7- Full assay on family Paramyxoviridae , involve general properties, structural morphology, viral genome and genomic organization, viral proteins, physical properties(shape, size,) chemical properties (viral proteins, capsid, envelope also Antigenic property, Haemagglutination property, lab. diagnosis of one virus of this family.

8- Biological characters and cultural characters of Newcastle disease virus (Include: Multiplication Cycle, Haemagglutination and cultivation on experimental hosts or isolation).

9- Laboratory diagnosis of Newcastle disease virus (Include: suitable samples, type of host of isolation, serological tests for detection and identification -physical and chemical properties (shape, size, nucleic acid, capsid, envelope), haemagglutination property, antigenic characters).

10- Full assay on family Picornaviridae , involve general properties, structural morphology, viral genome and genomic organization, viral proteins, physical properties (shape, size,) chemical properties (viral proteins, capsid also Antigenic property, Haemagglutination property, lab. diagnosis of one virus of this family.

11- Biological characters and cultural characters of FMD virus (Include: Multiplication Cycle, Haemagglutination and cultivation on experimental hosts or isolation).

12- Laboratory diagnosis of FMD virus (Include: suitable samples, type of host of isolation, serological tests for detection and identification - physical and chemical properties (shape, size, nucleic acid, capsid), haemagglutination property, antigenic characters).

13- Full assay on family Coronaviridae , involve general properties, structural morphology, viral genome and genomic organization, viral proteins, physical properties (shape, size,) chemical properties (viral proteins, capsid, envelope also Antigenic property, Haemagglutination property, lab. diagnosis of one virus of this family.

14- Biological characters and cultural characters of Infectious bronchitis virus (Include: Multiplication Cycle, Haemagglutination and cultivation on experimental hosts or isolation).

15- Laboratory diagnosis of Infectious bronchitis virus (Include: suitable samples, type of host of isolation, serological tests for detection and identification -physical and chemical properties (shape, size, nucleic acid, capsid, envelope), haemagglutination property, antigenic characters).

16- Full assay on family Birnaviridae , involve general properties, structural morphology, viral genome and genomic organization, viral

proteins, physical properties (shape, size,) chemical properties (viral proteins, capsid also Antigenic property, Haemagglutination property, lab. diagnosis of one virus of this family.

17- Biological characters and cultural characters of infectious bursal virus (Include: Multiplication Cycle, Haemagglutination and cultivation on experimental hosts or isolation).

18- Laboratory diagnosis of infectious bursal disease virus (Include: suitable samples, type of host of isolation, serological tests for detection and identification -physical and chemical properties (shape, size, nucleic acid, capsid), haemagglutination property, antigenic characters).

19- Full assay on family Flaviviridae , involve general properties, structural morphology, viral genome and genomic organization, viral proteins, physical properties (shape, size,) chemical properties (viral proteins, capsid, envelope also Antigenic property, Haemagglutination property, lab. diagnosis of one virus of this family.

20- Laboratory diagnosis of BVDV.

21- Biological properties of flaviviruses

22- Pathogenesis of flaviviruses.

23- Vaccines and vaccination for flaviviruses.

24- Full assay on family Herpesviridae , involve general properties, structural morphology, viral genome, viral proteins, physical properties (shape, size,) chemical properties (viral proteins, capsid, envelope also Antigenic property, Haemagglutination property, lab. diagnosis of one virus of this family.

25- Laboratory diagnosis of IBRV.

26- Biological properties of herpesviruses.

27- Pathogenesis of herpesviruses.

28- Vaccines and vaccination for avian herpesviruses

29- Full assay on family Poxviridae , involve general properties, structural morphology, viral genome, viral proteins, physical properties

(shape, size,) chemical properties (viral proteins, capsid, envelope also Antigenic property, Haemagglutination property, lab. diagnosis of one virus of this family.

30- Laboratory diagnosis of LSDV.

31- Biological properties of poxviruses

32- Pathogenesis of poxviruses

33- Vaccines and vaccination for poxviruses

34- Full assay on family Rhabdoviridae , involve general properties, structural morphology, viral genome and genomic organization, viral proteins, physical properties (shape, size,) chemical properties (viral proteins, capsid, envelope also Antigenic property, Haemagglutination property, lab. diagnosis of one virus of this family.

35- Biological characters and cultural characters of Rabies virus (Include: Multiplication Cycle and cultivation on experimental hosts or isolation).

36- Laboratory diagnosis of Rabies virus (Include: suitable samples, type of host of isolation, serological tests for detection and identification - physical and chemical properties (shape, size, nucleic acid, capsid, envelope), haemagglutination property, antigenic characters).

37- Vaccines and vaccination for Rabies virus.

38- Biological characters and cultural characters of Bovine ephemeral fever virus (Include: Multiplication Cycle and cultivation on experimental hosts or isolation).

39- Laboratory diagnosis of Bovine ephemeral fever virus (Include: suitable samples, type of host of isolation, serological tests for detection and identification -physical and chemical properties (shape, size, nucleic acid, capsid, envelope), haemagglutination property, antigenic characters).

40- Vaccines and vaccination for Bovine ephemeral fever virus.

41- Full assay on family Retroviridae , involve general properties, structural morphology, viral genome and genomic organization, viral proteins, physical properties (shape, size,) chemical properties (viral

proteins, capsid, envelope also Antigenic property, lab. diagnosis of one virus of this family.

42- Biological characters and cultural characters of Avian leukosis sarcoma virus (Include: Multiplication Cycle and cultivation on experimental hosts or isolation).

43- Laboratory diagnosis of Avian leukosis sarcoma virus (Include: suitable samples, type of host of isolation, serological tests for detection and identification -physical and chemical properties (shape, size, nucleic acid, capsid, envelope), antigenic characters).

44- Full assay on family Circoviridae , involve general properties, structural morphology, viral genome and genomic organization, viral proteins, physical properties (shape, size,) chemical properties (viral proteins, capsid, envelope also Antigenic property, lab. diagnosis of one virus of this family.

45- Biological characters and cultural characters of Chicken anemia virus (Include: Multiplication Cycle and cultivation on experimental hosts or isolation).

46- Laboratory diagnosis of Chicken anemia virus (Include: suitable samples, type of host of isolation, serological tests for detection and identification -physical and chemical properties (shape, size, nucleic acid, capsid, envelope), antigenic characters).

47- Full assay on family Adenoviridae , involve general properties, structural morphology, viral genome and genomic organization, viral proteins, physical properties (shape, size,) chemical properties (viral proteins, capsid, envelope also Antigenic property, lab. diagnosis of one virus of this family.

48- Biological characters and cultural characters of Avian Adenovirus (Include: Multiplication Cycle and cultivation on experimental hosts or isolation).

49- Laboratory diagnosis of Avian Adenovirus (Include: suitable samples, type of host of isolation, serological tests for detection and identification -physical and chemical properties (shape, size, nucleic acid, capsid, envelope), antigenic characters).

50- Vaccines and vaccination for Bovine ephemeral fever virus.