



Syllabus

VETERINARY VIROLOGY - 65720

Last update 28-10-2015

HU Credits: 3

Responsible Department: *veterinary medicine*

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Rehovot

Course/Module Coordinator: Dr. Gila Kahila Bar-Gal

Coordinator Email: gila.kahila@mail.huji.ac.il

Coordinator Office Hours: By appointment

Teaching Staff:

Dr. Gila Kahila
Dr. Avner Finger
Dr. David Dan
Dr. Caroline Noach

Course/Module description:

viral diseases in the veterinary medicine

Course/Module aims:

Understanding of the mechanisms of interaction between the virus its host, how the virus causes the host or recovery factors or important viral diseases in veterinary medicine, a vaccine against the virus and the use of viruses in gene therapy.

Learning outcomes - On successful completion of this module, students should be able to:

Describe the factors leading to viral diseases in the veterinary medicine. Identify way to treat them

Attendance requirements(%):

100

Teaching arrangement and method of instruction: Frontal lectures

Course/Module Content:

- 1. Introduction + Virus structure biology and virus assembly*
- 2. Immunology of viral infection*
- 3. Methodology in viral identification*
- 4. Intoduction to Vaccinology + The development of viral vaccines - Molecular approach*
- 5. Introduction to DNA and RNA viruses*
- 6. DNA viruses(Adenovirus Parvo and Coronavirus)*
- 7. Rhabdoviruses*
- 8. Arboviruses*
- 9. Arboviruses+ Influenza*
- 10. Herpes virus*
- 11. Retroviruses*
- 12. Emerging Viruses, zoonotic viruses and viral-host interaction*
- 13. Oncogenic viruses + Viruses as vectores and viral genetics*

Required Reading:

1.Principles of Virology - Molecular Biology, Pathogenesis, and Control □ Flint, Enquist, Krug, Racaniello, Skalka. ASM Press-1st edition, 2000, or 2nd edition 2004

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2. *Fundamental virology / editors- in chief, Bernard N. Fields, David M. Knipe, Peter M. Howley. Raven Press- 4th edition, 2001.*
3. *Veterinary Virology - Murphy, Gibbs, Horzinek, Studdert. Academic Press 3rd edition, 1999.*
4. *Viral Pathogenesis and Immunity Nathanson. Lippinkott Raven Publishers, 2002*

Additional Reading Material:

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Course/Module evaluation:

End of year written/oral examination 70 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 30 %

Assignments 0 %

Reports 0 %

Research project 0 %

Quizzes 0 %

Other 0 %

Additional information:

Attendance is mandatory and non-justified absence will lead to reduction in score (up to 10%)