

University of Sadat City Faculty of Veterinary Medicine Dept. of Parasitology (2014-2015)



Parasitic Immunology (690M)

MASTER COURSE SPECIFICATION

1- Basic information

University	University of Sadat City					
Faculty	Veterinary Medicine					
Course Code:	690M					
Course title:	Parasitic Immunology					
Department offering the Course:	Parasitology					
Program title:	Master in Veterinary Medical Sciences (Parasitology)					
	Lecture: 1 hours/ week					
Contact hours/week:	Practical: 2 hours/ week					
Course coordinator:	Dr. Mahmoud Abou Laila					

2- Professional information

1- Overall aims of course

Upon successful completion of the course, the student will be able to:.

✤ Identify parasitism host- parasite relations and Body response against parasitic infection

Professionally understand Antigen preparation and evaluation of different parasites 2- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding

By the end of this course the graduate should be able to:

al- Understand the fundamental concepts of immunoparasitology and technical vocabulary used in this field.

a2- Describe the different types of immune response against helminthes, protozoa, and arthropods.

a3- Recognize the different types of parasites and host parasite relationship.

a4- Explain parasite-host interaction (Immune inter-relations between parasite and the host).

A5. Know how parasites evade from host immune response

b-Intellectual skills

By the end of this course the graduate should be able to :-

b1- differentiate between the humeral and cellular immunity against different types of parasites

b2- correlate the different immunological methods for diagnosis of parasites.

b3- Specify the factors responsible for response of host against parasites

b4- Carry out a protection from infection with different zoonotic parasites.

b5 - Identify the different types of immunoglobulin (Ab) and its relation to different parasitic

infection

c-Professional and practical skills

By the end of this course the graduate should be able to:

c1- Collect of samples for immunological diagnosis.

c2- Carry out different methods for evaluation of body reaction against parasitic infection.

c3- diagnose of different parasitic infection by direct and indirect methods .

c4- Prepare parasitic antigens.

c5- Detect antibodies against different parasites

d-General and transferable skill

By the end of studying the course, the student should be able to

- d.1. Work effectively as part of a team.
- d.2. make use of library facilities and IT tools.
- d.3. Explore appropriate computer / keyboard skills including word
- d.4. Process, spreadsheets, presentation packages and graph plotting.

3- Topics and contents

Theoretical terric	No. of hours					
Theoretical topic	Lectures	Practical	Total			
Definitions.	4	-	4			
The different types of immunoglobulin (Ab) and its relation to different parasitic infection	8	-	8			
- host- parasite relations	4	-	4			
- Antigen-Antibody Regulations Immunity to Helminthes Parasites.	4	-	4			
Immunity to Protozoon, and arthropods Parasites.	8	-	8			
Body response against parasitic infection	4	-	4			
Evasion of parasites from host immune response	4	-	4			
Antigen preparation and evaluation	8	-	8			
practical topic						
Detection of Anti-parasitic Antibodies	-	16	10			
Methods of evaluation of body reaction against parasitic infection	-	32	32			
Collection of samples for immunological studies .	-	16	16			
common steps for preparation of parasitic antigens	-	12	12			
Different serological techniques for diagnosis of parasites	-	12	12			
Total	44	88	132			

4- Teaching and learning methods

- **4.1.** Lectures.
- **4.2.** Practical sessions.
- **4.3.** Self-learning and presentation.

5-Student assessment

a. METHODS:

Written exam	For assessment of knowledge, information and intellectual
	skills
Practical exam	For assessment of professional and practical skills
Oral exam	For assessment of knowledge, information and intellectual
	skills
Self learning	For assessment of knowledge, general and transferable skills
activities	

b. MATRIX ALIGNMENT OF THE MEASURED ILOS/ ASSESSMENTS METHODS:

Assessments methods										
Method	Matrix alignment of the measured ILOs/ Assessmethods									
	K& U (a)	I.S (b)	P&P.S (c)	G.S (d)						
Final-Term exam	1,2,3,4	1,3,4								
Practical exam		2,5	1,2,3,4,5							
Oral exam	1,2,4,5	1,3,4								
Self learning activiti es				1,2,3,4						

c. WEIGHT OF ASSESSMENTS:

Assessment	Allocated Mark	Evidence
Final written exam	50%	Marked and signed written paper
Practical exam	20%	Marked and signed practical exam paper
Oral exam	20%	Signed list of oral exam marks
Self learning activities	10%	Signed list of presented materials

6- List of references

6.1. Essential books

1-Hendrix CH.M. (1998): diagnostic veterinary parasitology 1998 by mosby . inc.

2-Dawes, B. (1963): Advances in parasitology. Vol. (1-20).

3-Garcia L.S. (1999) practical guide to diagnostic parasitology American society for microbiology

6.2. Recommended texts

1-Soulsby, E.J.L. (1986): Heminths, Arthropods and protozoa of poultry and rabbit. 8th ed. Baillier, Tidal and Cassel, London.

6.3. Journals , Websitesetc

- 1- Parasitology today
- 2- The Journal of parasitology
- 3- www.asp.unl.edu/

Course coordinator:

Dr. Mahmoud Abou Laila

Head of department:

Prof. Dr. Nasr Moawad El-Bahy

Matrix alignment of course topics and ILOs

Theoretical topic	ho			lect.	ract.		ILOs			T&L. methods				
	Lect.	Pract.	Total hours	Hours for	Hours for pract.	K&U (a)	LS (b)	P.P.S (c)	G.T.S (d)	Lect.	Pract.	Self & active leaning	Audio visual	Case study
Definitions.	8	-	8	8	-	1,3	1,2		1,2,3,4					
The different types of immunoglobulin (Ab) and its relation to different parasitic infection	4	-	4	4	-	1,2,3,4	1,2,3		1,2,3,4					
- host- parasite relations	4	-	4	4	-	1,2,3	1,2,3		1,2,3 ,4					
- Antigen-Antibody Regulations Immunity to Helminthes Parasites.	4	-	4	4	-	2,4			1,2,3,4					
Immunity to Protozoon, and arthropods Parasites.	8	-	8	8	-	4	2,3,4,5 2,3		1,2,3,4					
Body response against parasitic infection	4	-	4	4	-	3,4	2,3		1,2,3 ,4					
Evasion of parasites from host immune response	4	-	4	4	-	3,4	2,3		1,2,3,4					
Antigen preparation and evaluation	8	-	8	8	-	1,3,4,5	2,3		1,2,3 ,4					
practical topic														
Detection of Anti-parasitic Antibodies	-	16	10	-	10			1,2,3,5	1,2,3 ,4					
Methods of evaluation of body reaction against parasitic infection	-	32	32	-	32			1,2	1,2,3,4					
Collection of samples for immunological studies .		16						-,-						

common steps for preparation of parasitic antigens		12						
Different serological techniques for diagnosis of parasites	-	12	40	-	40	1,2,3,4,5 1,2,3,4		
Total	44	88	132	44	88			