

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Production Methods Of Haemoparasites In Cell Culture							
ourse Code VPR658 Couse Level Third Cycle (Doctorate Degree)		gree)					
Workload	100 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course The objective of this course, introduction of cell culture laboratories, points to be considered in cell culture, cell line in cell culture, cultivation of theileria and babesia parasites							
					cell		
Work Placement N/A							
Planned Learning Activities and Teaching Methods			(Presentat	tion), Discussi	on, Case Stu	ıdy	
	VPR658 Workload The objective culture, cell lin Cell culture of schizonts-infecounting and v	VPR658 Workload 100 (Hours) The objective of this course, culture, cell line in cell culture Cell culture of theileria and I schizonts-infected lymphocy counting and viability exami	VPR658 Couse Leve Workload 100 (Hours) Theory The objective of this course, introduction culture, cell line in cell culture, cultivation Cell culture of theileria and babesia para schizonts-infected lymphocyte cultures, counting and viability examination, storage N/A	VPR658 Couse Level Workload 100 (Hours) Theory 2 The objective of this course, introduction of cell cult culture, cell line in cell culture, cultivation of theileria Cell culture of theileria and babesia parasites, Isola schizonts-infected lymphocyte cultures, cell line and counting and viability examination, storage of culture N/A	VPR658 Couse Level Third Cycle (I Workload 100 (Hours) Theory Practice The objective of this course, introduction of cell culture laboratoric culture, cell line in cell culture, cultivation of theileria and babesia Cell culture of theileria and babesia parasites, Isolation of infected schizonts-infected lymphocyte cultures, cell line and incubation, to counting and viability examination, storage of cultures N/A	VPR658 Couse Level Third Cycle (Doctorate Decouple) Workload 100 (Hours) Theory 2 Practice 2 The objective of this course, introduction of cell culture laboratories, points to culture, cell line in cell culture, cultivation of theileria and babesia parasites Cell culture of theileria and babesia parasites, Isolation of infected lymphocyte schizonts-infected lymphocyte cultures, cell line and incubation, to be consider counting and viability examination, storage of cultures N/A	VPR658 Couse Level Third Cycle (Doctorate Degree) Workload 100 (Hours) Theory 2 Practice 2 Laboratory The objective of this course, introduction of cell culture laboratories, points to be considered in culture, cell line in cell culture, cultivation of theileria and babesia parasites Cell culture of theileria and babesia parasites, Isolation of infected lymphocytes from the blood, schizonts-infected lymphocyte cultures, cell line and incubation, to be considered in cell culture, counting and viability examination, storage of cultures N/A

Assessment Methods and Criteria					
Method	Quantity	Percentage (%)			
Midterm Examination	1	20			
Final Examination	1	60			
Quiz	1	10			
Assignment	1	10			

Recommended or Required Reading

1 Maramorosch K., Hirumi, H. (1979). Practical tissue culture applications. Academic Press, USA

Week	Weekly Detailed Cour	se Contents					
1	Theoretical Points to be considered in cell culture						
	Practice	equipment / consumables used in laboratories cell culture					
2	Theoretical	Biology of theileria annulata					
	Practice	Isolation to be lymphocytes of an infected animal					
3	Theoretical	Isolation to be lymphocytes of an infected animal with theileria annulata					
	Practice	culturing lymphocyte -infected wtith Scizont by Obtained from an animal infected with theileria annulata					
4	Theoretical	Culturing lymphocytes infected with Schizonts					
	Practice	Culturing lymphocyte -infected with Scizont by Obtained from an animal infected with theileria annulata					
5	Theoretical	Cell line and incubation in cell culture of theileria annulata					
	Practice	Cell line and incubation in cell culture of theileria annulata					
6	Theoretical	Count of cells in cell cultures of theileria annulata and live / dead cell discrimination					
	Practice	Count of cells in cell cultures of theileria annulata and live / dead cell discrimination					
7	Theoretical	Storage of cell cultures of theileria annulata					
	Practice	Storage of cell cultures of theileria annulata					
8	Intermediate Exam	Midterm Examination					
9	Theoretical	Biology of the species Babesia parasites which were cell culturable					
	Practice	Modified of cell cultures to babesia					
10	Theoretical	Needs to be done for cell culture to babesia					
	Practice	Modified of cell cultures to babesia					
11	Theoretical	Cell line of cell culture to babesia					
	Practice	Cell line of cell culture to babesia					
12	Theoretical	Incubation of cell culture to babesia					
	Practice	Incubation of cell culture to babesia					
13	Theoretical	Storage of cell cultures to babesia					
	Practice	Storage of cell cultures to babesia					
14	Theoretical	Immunization activities from cell cultures					



14	Practice	Immunization activities from cell cultures			
15	Theoretical	Discussion			
	Practice	Discussion			
16	Final Exam	Final exam			
17	Final Exam	Final exam			

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	1	4	1	5
Quiz	1	4	1	5
Midterm Examination	1	14	1	15
Final Examination	1	18	1	19
Total Workload (Hours)				
[Total Workload (Hours) / 25*] = ECTS				
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

- 1 Equipment / consumables used in laboratories cell culture
- 2 Isolation of peripheral blood monocytes
- 3 To have an information about cultivation of Theileria parasites
- 4 To have an information about cultivation of Babesia parasites
- 5 Cell line and storage of cultures in cell culture

Programme Outcomes (Parasitology (Veterinary Medicine) Doctorate)

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	5	5	5	5	5
P2	4	4	4	4	4
P3	5	5	5	5	5
P4	4	4	4	4	4
P5	5	5	5	5	5
P6	4	4	4	4	4
P7	5	5	5	5	5
P8	4	4	4	4	4
P9	4	4	4	4	4
P11	5	5	5	5	5

