



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		B Chromosomes							
Course Code		BiO628		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	172 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To give information about the structure, organization of B chromosomes and the effects of numerical variations of B chromosomes on populations.							
Course Content		The structure, organization of B chromosomes and the effects of numerical variations of B chromosomes.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	-Jones, R.N., Rees, H., 1982. B Chromosomes. Academic Press Inc.
2	Internet

Week	Weekly Detailed Course Contents	
1	Theoretical	Chromosome variations and B chromosomes
2	Theoretical	The structure and organization of B chromosomes
3	Theoretical	Transportation and heredity of B chromosomes
4	Theoretical	Transportation and heredity of B chromosomes (continue)
5	Theoretical	The effects of B chromosomes on morphology and development
6	Theoretical	Chromosome behaviours in mitosis
7	Theoretical	Chromosome behaviours in meiosis
8	Theoretical	Chromosome behaviours in meiosis (continue)
9	Theoretical	The mechanisms of accumulation
10	Theoretical	Population and adaptation; natural populations
11	Theoretical	Experimental populations
12	Theoretical	The evolution of B chromosomes
13	Theoretical	The evolution of B chromosomes
14	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	1	2	39
Term Project	2	2	3	10
Laboratory	13	1	2	39
Reading	13	3	3	78
Quiz	1	1	1	2
Midterm Examination	1	1	1	2
Final Examination	1	1	1	2
Total Workload (Hours)				172
[Total Workload (Hours) / 25*] = ECTS				7

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	1. Teaching structure and organization of the B chromosomes.
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2	2. To provide information about transport and on the inheritance of B chromosomes
3	3. To obtain information about the effects of B chromosomes on human morphology and development.
4	4. To teach the behavior in mitosis and meiosis of B chromosomes
5	5. Provide information about mechanisms of accumulation of B chromosomes.

Programme Outcomes (Biology Doctorate)

1	To have enough scientific background knowledge towards a specific study and research area
2	To have an ability to identify, evaluate and develop a solution for a problem on biological aspects
3	To be able to evaluate scientific observations and results of experiments using statistical analysis methods
4	To have basic skills in areas related to field of biological studies
5	To have the ability to develop cooperation with different disciplines with the high level of social communication required for studies
6	To have knowledge of technology and use of methods and means used in biological researches
7	To have an ethical understanding which will be a guide for their investigations and publications
8	For PhD; to have European Language Portfolio C1 general level language skill
9	To be able to present and discuss own research results in accordance with scientific discipline using technological tools in scientific research environments
10	To be able to detect and evaluate economic and social impacts of an own original research results
11	To be equipped with ability of carrying out independent study in biological field
12	To be able to publish at least one an international/national peer reviewed scientific paper and/or produce or interpret an original work related to biology in order to expand the frontiers of knowledge
13	To be able to develop new approaches or adaptations to be used in solving scientific and biological problems
14	To be able to develop new understanding and approaches in order to explain a new phenomenon or a biological event under investigation
15	To have abilities and experience to create new search area through inspiration gained from subject searched

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

	L1	L2	L3	L4	L5
P2	4	5	4	4	4
P3	5	5	4	5	5
P4			4		
P5	5	5	5	5	5
P8	5	5	4	4	4
P10	5	5	5	4	4

