



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Endoplasmic Reticulum Stress and Metabolic Homeostasis							
Course Code		BYK529		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		Learning about endoplasmic reticulum stress and metabolic homeostasis							
Course Content		Endoplasmic reticular stress, protein synthesis and unfolded protein response, posttranslational modifications and its effect on metabolic homeostasis							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Endoplasmic reticulum stress in Health and Disease: Patrizia agostinis
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Week	Weekly Detailed Course Contents	
1	Theoretical	General information about endoplasmic reticulum and its function
2	Theoretical	General information about endoplasmic reticulum and its function
3	Theoretical	General information about endoplasmic reticulum and its function
4	Theoretical	General information about endoplasmic reticulum and its function
5	Theoretical	Stress of endoplasmic reticulum
6	Theoretical	Stress of endoplasmic reticulum
7	Theoretical	Stress of endoplasmic reticulum
8	Intermediate Exam	Quiz
9	Theoretical	Protein synthesis, posttranslational modifications and response of unfolded proteins
10	Theoretical	Protein synthesis, posttranslational modifications and response of unfolded proteins
11	Theoretical	Protein synthesis, posttranslational modifications and response of unfolded proteins
12	Theoretical	Protein synthesis, posttranslational modifications and response of unfolded proteins
13	Theoretical	The effect of endoplasmic reticulum stress on metabolic homeostasis
14	Theoretical	The effect of endoplasmic reticulum stress on metabolic homeostasis
15	Theoretical	The effect of endoplasmic reticulum stress on metabolic homeostasis
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	3	56
Assignment	1	1	18	19
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To learn general information about endoplasmic reticulum and its functions
2	To learn information about endoplasmic reticulum stress
3	Learning knowledge about protein synthesis, posttranslational modifications and response of unfolded proteins
4	Having an idea about metabolic homeostasis



5	Endoplazmik retikulum stresinin metabolik homeostaza etkisini öğrenme
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Programme Outcomes (*Biochemistry (Medical) Master*)

1	To have basic theoretical knowledge about biochemistry and to help understanding biochemistry
2	To have the basic laboratory knowledge, apparatus and methods used in biochemistry
3	Analysis: To be able to analyze information critically
4	Synthesis: To be able to synthesize and adapt the knowledge in the field from different directions
5	Evaluation: To critically evaluate research in the field

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	4	5	4	5	4
P2	5	5	5	5	5
P3	4	5	4	5	4
P4	5	4	5	5	5
P5	4	4	4	4	5

