Course Syllabus

Code - Course Title	**FKL512 - Receptors, Signal Transuduction and Drug Action**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. RANA ARSLAN

Mode of Delivery	Face to face learning
Prerequisites	There is no prerequisite or co-requisite for this course.
Recommended Resources	Moleküler Hücre Biyolojisi, Prof.Dr. Hasan Veysi Güneş
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Cell structure, functions and membrane potential	
Week - 2		signal transductionand mechanisms of actionin the cell	
Week - 3		Mechanisms and properties ofdrug effects	
Week - 4		Receptors (types , functions etc.)	
Week - 5		G proteins (types and functions etc)	
Week - 6		G proteins (types and functions etc)	
Week - 7		Secondary messengers in the cell	
Week - 8		Ionic channels (types and functions etc.)	
Week - 9		Calcium channels and mechanisms of calcium regulation in the cell	
Week - 10		literature survey	
Week - 11		Enzymes	
Week - 12		effects of drugs on signal transduction	
Week - 13		Observation of signal transduction mechanism in anexperimental apparatus	
Week - 14		Observation of signal transduction mechanism in anexperimental apparatus	

Learning Outcomes

#	Learning Outcome
1	classify the signal transduction systems of drugs.
2	classify the receptors, their subtypes and their ligands.
3	compare tothe intracellular changes caused by drugs.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	50
Final Exam	1	50
	Sum (%)	**100**