Course Syllabus

Code - Course Title	**FKL531 - Receptor Theories and Experimental Application**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. NURCAN BEKTAŞ TÜRKMEN

Mode of Delivery	In-person/Remote education
Prerequisites	This course has no prerequisites or co-requisites.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Classification and Functions of Receptors	
Week - 2		Receptor Structure and Function	
Week - 3		Ligand Binding and Receptor Activation	
Week - 4		Receptor-Behavior Relationships: Affinity and Efficacy	
Week - 5		Agonists and Antagonists	
Week - 6		Receptor Desensitization and Tolerance	
Week - 7		G-Protein Coupled Receptors (GPCRs)	
Week - 8		Ion Channel Receptors	
Week - 9		Nuclear Receptors and Transcriptional Regulation	
Week - 10		Experimental Applications of Receptor Theories	
Week - 11		Drug Interactions and Receptors	
Week - 12		Pharmacogenomics and Receptor Theories	
Week - 13		Current Research and Innovative Methods	
Week - 14		Final Evaluation and Summary	

Learning Outcomes

#	Learning Outcome
1	Explains the structure and functions of receptors.

Learning Outcomes

#	Learning Outcome
2	Explains the mechanisms of ligand binding and receptor activation.
3	Recognizes different types of receptors and explains their functions.
4	Explains drug interactions and receptor functions.
5	Lists the current applications of receptor theories.
6	Lists pharmacogenomics and personalized treatment approaches related to receptor theories.

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.