

# 수업계획서

2020 년도 1학기

<b>교과명</b>	국문 : 분자생물학특론			
	영문 : Advanced Molecular Biology			
이수구분/수강번호	10511	담당교수	송수정	
학점/주당시수	3	소속	의생명융합학과(일반대학원)	
선이수교과목	분자생물학			
강의방법(0)표기	강의실	연락처	핸드폰	010-9929-7224
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## 1. 수업의 개요

This course primarily deals with nucleic acids and proteins and how these molecules interact within the cell to promote proper growth, division, and development.

## 2. 수업의 목적

This course will emphasize the molecular mechanisms of DNA replication, repair, transcription, protein synthesis, and gene regulation in different organisms.

## 3. 수업의 목표

Each class consists of the lecture by the instructor and in class discussion. Therefore, class attendance is required to participate in the discussion. Students will prepare a presentation to be given during class. Original research articles relevant to the topics of each class will be posted ahead of the class.

## 4. 수업의 특성

The course objective is to consider both principles and current topics in Molecular Biology in depth.

## 5. 수업의 형태

이론중심 ( 0 )	이론실습형 ( )	실습중심 ( )	강의실수업 ( ) 온라인수업 ( ) 강의실+온라인수업 ( )
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## 6. 과제물

Reading assigned textbook is strongly recommended for this course.

## 7. 평가방법

중간시험	%	기말시험	%	<b>합 계</b>
출석	10 %	과제	0 %	
발표	%	토론	20 %	
퀴즈	0 %	기타	0 %	

## 8. 수강시 유의사항

Students are required to adhere to the University Policy on Academic Standards and Cheating, to the University Statement on Plagiarism and the Documentation of Written Work, and to the Code of Student Conduct as delineated in the University Catalog and Student handbook

## 9. 기대효과

Students are expected to learn the basic concepts and experimental techniques used to discern these mechanisms, referring to text book and the original scientific articles, respectively.

## 10. 수업의 관련자료(교재, 참고문헌, 기자재)

Molecular Biology, 5th edition (R. F. Weaver)

■ 주별학습내용

주	제목	학습내용	수업방식				강의실 사용여부
			나눔교육		현장연계		
1	RNA Processing Post-	Splicing, Capping and polyadenylation	토론 <input type="checkbox"/>	PBL <input type="checkbox"/>	융복합 <input type="checkbox"/>	현장전문가초빙 <input type="checkbox"/>	
			발표 <input type="checkbox"/>	프로젝트 <input type="checkbox"/>	팀티칭 <input type="checkbox"/>	현장탐방 <input type="checkbox"/>	
			기타 <input type="checkbox"/>		협동학습 <input type="checkbox"/>	기타 <input type="checkbox"/>	
2	Transcriptional Control of Gene Expression	Other processing events and control of gene expression	토론 <input type="checkbox"/>	PBL <input type="checkbox"/>	융복합 <input type="checkbox"/>	현장전문가초빙 <input type="checkbox"/>	
			발표 <input type="checkbox"/>	프로젝트 <input type="checkbox"/>	팀티칭 <input type="checkbox"/>	현장탐방 <input type="checkbox"/>	
			기타 <input type="checkbox"/>		협동학습 <input type="checkbox"/>	기타 <input type="checkbox"/>	
3	Translation	Initiation, elongation and termination	토론 <input type="checkbox"/>	PBL <input type="checkbox"/>	융복합 <input type="checkbox"/>	현장전문가초빙 <input type="checkbox"/>	
			발표 <input type="checkbox"/>	프로젝트 <input type="checkbox"/>	팀티칭 <input type="checkbox"/>	현장탐방 <input type="checkbox"/>	
			기타 <input type="checkbox"/>		협동학습 <input type="checkbox"/>	기타 <input type="checkbox"/>	
4	Ribosomes and Transfer RNA	Ribosome and transfer RNA	토론 <input type="checkbox"/>	PBL <input type="checkbox"/>	융복합 <input type="checkbox"/>	현장전문가초빙 <input type="checkbox"/>	
			발표 <input type="checkbox"/>	프로젝트 <input type="checkbox"/>	팀티칭 <input type="checkbox"/>	현장탐방 <input type="checkbox"/>	
			기타 <input type="checkbox"/>		협동학습 <input type="checkbox"/>	기타 <input type="checkbox"/>	