

# Syllabus

2nd Semester ,2017

<b>Subject Number</b>	Advanced Immunology – A664				
<b>Course Type/Course Number</b>	10119		<b>Professor</b>	Yun Kyung Lee	
			<b>Major</b>	의생명융합학과 (일반대학원)	
<b>Credit/Hours</b>	3				
<b>Prerequisite</b>					
<b>Teaching Methods (0)notation</b>	<b>Classroom</b>		<b>Contact</b>	<b>Phone Number</b>	010-2714-2072
	<b>Campus virtual</b>			<b>E-Mail</b>	yunklee@sch.ac.kr

## 1. Course Description

This course will address up to date information in the field of immunology such as innate immunity, adaptive immunity and tumor biology, etc.

## 2. Course Purpose

The purpose of Advanced Immunology course is to provide in depth knowledge of the immune response and its involvement in health and disease.

## 3. Course Objective

This course will enable students to gain a wide range of immunology base and build upon that base for understanding the immune defense mechanisms of the body.

## 4. Course Features

- A series of lectures and discussions about newly released scientific journals will cover immune reactions to pathogens as well as tumors.
- Articles from scientific journals will be available at least one week before we are scheduled to discuss them in class. Students are expected to read before class and participate in class discussion.

## 5. Course Style

Lecture ( 0 )	Lecture & Practice ( )	Practice ( )
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## 6. Assignments

- Presentation of up to date journals
- Assignment: write a review paper about assigned topics and give a talk

## 7. Grades

Attendance	10 %	Quiz	%	Report	20 %	Discussion	%		
Test and Evaluation(1st~10th)		%		Etc	%	Total	100 %		
1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
35 %	35 %	%	%	%	%	%	%	%	%

## 8. Note

-Class attendance is required to allow you to participate in class discussion. In addition to discussion of current journal articles, students should prepare presentations about assigned topics.

## 9. Expectation

This course helps students analyze scientific journal in the field of immunology

## 10. Required Text (Recommended Text)

Immunobiology (Garland Science, 8th edition, 2012), Nature Immunology, Journal of Immunology, Immunity, Blood, Leukemia(Henderson, E.S. et al), Immunology, Current opinions in Immunology

**Prerequisite :** Advanced Immunology

**Professor :** Yun Kyung Lee

■ **Schedule (Weekly learn contents)**

Week	Title	Content	multi-media	Classroom
1	chapter 1	Basic concepts in immunology (by Kwon)		
2	chapter 2	Innate Immunity (by Kwon)		
3	chapter 3	Induced Response of Innate Immunity (by Kwon)		
4	chapter 4 and 5	B cell and T cell receptors (by Kwon)		
5	chapter 6	Antigen presentation to T lymphocytes (by Cho)		
6	chapter 7	Signaling through Immune-system receptors (by Cho)		
7	chapter 8	The Development and survival of lymphocytes. (by Cho)		
8	chapter 8	The Development and survival of lymphocytes. (by Cho)		
9	exam	Midterm Exam		
10	chapter 9	T cell mediated Immunity (by Lee)		
11	chapter 10	Humoral Immune Response (by Lee)		
12	chapter 11	Dynamics of Adaptive Immunity (by Lee)		
13	chapter 12	The mucosal Immune system (by Lee)		
14	tumor section	Tumor Immunology (by Kwon)		
15	metabolism	Metabolic disease and Immunology (by Cho)		
16	exam	final exam		