

Graduate Immunology

Fall, 2020

Time: Monday, 9:10~12:00 a.m.

Place: Room 604

Coordinator : 凌 斌 老師 (Pin Ling) (Ext: 5632; lingpin@mail.ncku.edu.tw)

Textbook: Murphy, K. and Weaver, C., Janeway's Immunobiology, 9th ed.,
2016

Date	Chapter	Topic	Lecturer
09/07	1	Basic Concepts in Immunology	P. Ling
09/14	2	Innate Immunity: The First Lines of Defense	C.P. Chang
09/21	3	The Induced Responses of Innate Immunity	C.P. Chang
09/28	4	Antigen Recognition by B-cell and T-cell Receptors	P. Ling
10/05	5	The Generation of Lymphocyte Antigen Receptors	P. Ling
10/12	6	Antigen Presentation to T Lymphocytes	P. Ling
10/19	7	Lymphocyte Receptor Signaling	P. Ling
10/26	8	The Development of B and T Lymphocytes	P. Ling
11/02		Midterm Examination (Chapters 1-8) (4F Lab)	P. Ling
11/09	9	T-cell-Mediated Immunity	P. Ling
11/16	10	The Humoral Immune Response	C.P. Chang
11/23	11	Integrated Dynamics of Innate and Adaptive Immunity	C.P. Chang
11/30	12	The Mucosal Immune System	C.P. Chang
12/07	13	Failures of Host Defense Mechanisms	P. Ling
12/14	14	Allergy and Allergic Diseases	C.C. Shieh
12/21	15	Autoimmunity and Transplantation	C.C. Shieh
12/28	16	Manipulation of the Immune Response	C.P. Chang
01/04		Final Examination (Chapters 9-16) (4F Lab)	P. Ling

課程學習目標 (Course Objectives):

1. 傳授免疫學的基本概念 (To assist the students in understanding the concepts of immunology)。
2. 介紹免疫系統與微生物的互動機制，以及免疫系統對於感染症的正向與反向的影響 (To understand how the host immune system interacts with pathogens to affect the pathogenesis of infectious diseases)。
3. 免疫系統在自體免疫，過敏反應及其他免疫相關疾病的病理機制探討 (To understand the pathogenesis of autoimmune diseases, allergy, and other immune disorders)。

評量方式 (Grading):

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| 1. 期中考 (Midterm Exam) | 40% |
| 2. 期末考 (Final Exam) | 40% |
| 3. 出席及課堂表現 (Attendance and Class Performance) | 20% |