

Introduction to Immunology

Dr. Issa Abu-Dayyeh



Dr. Issa Abu-Dayyeh

I obtained my BSc. degree from the American University of Beirut (AUB), where I graduated with distinction. I followed up that degree with a PhD. in Microbiology and Immunology which I obtained with honours from McGill University in Montréal, Canada. My work at McGill focused on host-pathogen interactions mostly in relation to Leishmania's effect on host macrophages and other components of the innate immune system.

Following my PhD, I accepted a post-doctoral research position at the University of Oxford and performed my research at the Weatherall Institute of Molecular Medicine, specializing in the field of Tumor Immunology and Personalized Cancer therapy.

Today, I am the Director of Biolab 2 near the 5th Circle and head of the Immunology Department at Biolab. I am also leading several research projects in collaboration with several prestigious academic and medical centres in Jordan and abroad. Furthermore, I am founder and editor in-chief of Biolab's scientific journal "Biolab Insights", a project I am very proud about which aims to spread medical knowledge and promote constructive interaction between healthcare individuals in Jordan and the region.

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Grade Break-down

40% Midterm

50% Final

10% Attendance



Immunology Course Outline

Dr. Issa Abu-Dayyeh

Ph.D., Immunology, McGill University, Canada

- Lecture 1: Overview of Immunological Concepts (Chapter 1, 2)
- Lecture 2: Innate Immune system (Chapter 4, 13)
- Lecture 3: Hereditary Angioedema (Case # 31)
- Lecture 4: Chronic Granulomatous Disease (Case # 26)
- Lecture 5: B cells and antibodies (Chapter 5, 8, 12)
- Lecture 6: Activation-Induced Cytidine Deaminase Deficiency (Case # 3)
- Lecture 7: Antigen Presentation (Chapter 6)
- Lecture 8: MHC I Deficiency (Case # 12)
- Lecture 9: T cells and cytokines (Chapter 8, 9, 10, 11)
- Lecture 10: X-linked Severe Combined Immunodeficiency (Case # 5)
- Lecture 11: Lymphoid organs and lymphoid trafficking (Chapter 2, 3)
- Lecture 12: DiGeorge Syndrome (Case # 9)
- Lecture 13: Restraining the immune system (Chapter 15)
- Lecture 14: Tolerance and MHC restriction (Chapter 6, 15)
- Lecture 15: Graft-Versus-Host Disease (Case # 11) (Chapter 17)
- Lecture 16: Immunological memory and vaccines (Chapter 16)
- Lecture 17: Immune system going wrong (Chapter 15, 20)
- Lecture 18: Systemic Lupus Erythematosus (Case # 36)
- Lecture 19: Anaphylactic Shock (Case # 29 3rd edition book)
- Lecture 20: Myasthenia gravis (Case # 40)
- Lecture 21: Amyloidosis (Dr. Heyam Lecture)
- Lecture 22: Immunodeficiency (Chapter 21)
- Lecture 23: Acquired Immune Deficiency Syndrome (Case # 10)
- Lecture 24: Cancer and the immune system (Chapter 18)
- Lecture 25: A critique of the immune system/ revision

Recommended References

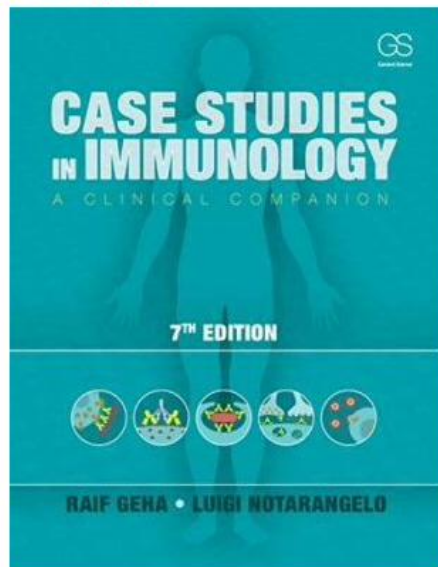
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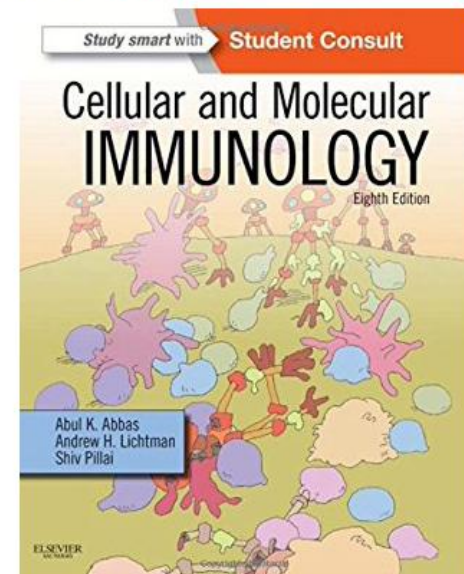
Abul K. Abbas MBBS and 2 more

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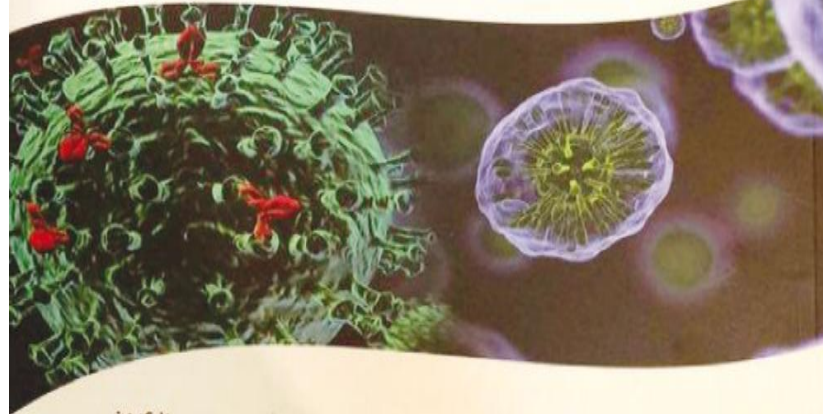
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