Jordan University of Science and Technology

Faculty of Science & Arts

Applied Biological Sciences Department

BIO336 Immunology & Serology (Laboratory)

First Semester 2017-2018

Course Catalog
1 Credit Hours. The purpose of the Immunology lab course is to provide a basic knowledge of the Experimental and serological applications of immunobiology for diagnosis of viral, bacterial and fungal diseases and for investigation of research problems.

Text Book	
Title	Clinical Immunology and Serology : A Laboratory Perspective
Author(s)	Christine Dorresteyn Stevens
Edition	3rd Edition
Short Name	Ref # 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref # 2	Practical Immunology	Frank C. Hay and Olwyn M.R. Westwood	4th Edition	

Instructor	
Name	**Prof. Nizar Abuharfil**
Office Location	PH1L1
Office Hours	Sun : 10:00 - 11:00 Mon : 10:30 - 11:30 Wed : 10:30 - 11:30 Thu : 09:30 - 10:30 Thu : 10:30 - 11:30 Thu : 11:30 - 12:30
Email	harfeil@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Mon : 14:30 - 17:30 Room: LAB 10 (PH1 L1)

Teaching Assistant
Mrs. Muna Masoud(Sections 1, 2)

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	Introduction & General Rules	
Week 2	Handling and injection of experimental animals	
Week 3	Isolation of lymphocytes and differential WBC count	
Week 4	Mancini test	
Week 5	Immunodiffusion (Ouchterloney)	
Week 6	Immunoelectrophoresis	
Week 7	Midterm Exam	
Week 8	Direct immunoagglutination: Rosebengal test, Widal test	
Week 9	Indirect Immunoagglutination: RF, CRP, Pregnancy tests	
Week 10	ELISA (Hepatitis)	
Week 11	Immunofluorescence (ANA test) or MTT test	
Week 12	Radioimmunoassay (T3 and T4)	

Mapping of Course Objectives to Program Student Outcomes[1]	Assessment method
Describe the precipitation methods in antigen or antibody detection including primary and secondary immune response [1B]	
Describe isolation of lymphocytes and Describe the clinical tests based on direst agglutination of antigen and antibody [1B]	
Describe the clinical tests based on indirect agglutination of antigen and antibody [1B]	
Describe the most sensitive immunoassays including ELISA, IFA and RIA [1B]	

Relationship to Program Student Outcomes (Out of 100%)					
A	B	C	D	E	F
	100				

Policy	
Class Attendance	Your class attendance is mandatory. Absences in excess of 20% of the total lecture hours will result in your being dropped from the course with a failing grade.
Makeup Exams	Make-up exam appeals should be filed within one week of the missed exam.
Cell Phones	Cell phones are completely prohibited during examinations according to the university regulations i.e. you are not allowed to bring your phone into the exam hall
Cell Phones	Cell phones must be turned off during lectures. No incoming or outgoing calls or text messages are allowed
Cheating	Unethical conduct, including cheating during examinations, will result in punishment by the university administration

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