

Schedule Major "Infectious Diseases" SS 2015

2nd. Semester (SS 15) - Module 2 (Week 9-15): "FOCUS BIOSCIENCES"

June 8th - July 25th 2015 15 CP (CP=Credit Points)

Clayton, Müller, Samstag, Wabnitz, Kubatzky, Dalpke, Eigenbrod; INF 230; R 020

Module 2, (1)		06/08-06/12	
	Lecture *) 8.30am - 10:00am	Seminar	Private study etc.
Mon 08	The mucosal surface: Front line of defence		
Tue	Innate Immunity I: Cells, receptors and how bacteria fight them		
Wed	General concepts and T-cell biology		
Thu	T-cell subsets and their effector functions		
Fri	Antibodies and B-cells		

Module 2, (2)		06/15-06/19	
	Lecture *) 8.30am - 10:00am	Seminar	Private study etc.
Mon 15	B-cell biology and disorders of the adaptive immune system		
Tue	Tutorial		
Wed	Signaling in Infection: Chemokines, cytokines		
Thu	Immune defense of infectious organisms: bringing the players together		
Fri	Principles of vaccination		

Module 2, (3)		06/22-06/26	
	Lecture *) 8.30am - 10:00am	Seminar	Private study etc.
Mon 22	TUTORIAL		
Tue	Virulence factors - how to arm bacteria		
Wed	Modes of pathogen transmission, life cycles		
Thu	Cell division, gene expression and genetic manipulation		
Fri	Intracellular survival of bacteria		

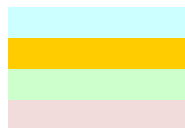
Module 2, (4)		06/29-07/03	
	Lecture *) 8.30am - 10:00am	Seminar	Private study etc.
Mon 29	Intracellular survival of eukaryotic pathogens		
Tue	Parasitic infections		
Wed	TUTORIAL		

Thu	Antigenic Variation and diversity		
Fri	Toxins		

Module 2, Week (5)		07/06-07/10	
	Lecture *) 8.30am - 10:00am	Seminar	Private study etc.
Mon 06	Toxins		seminar preparation, private study
Tue	Antimicrobial drug development/Cell wall and membrane as drug targets		
Wed	Nucleotides, redox and cofactors as drug targets		
Thu	Proteins and RNA as drug targets		
Fri	Energy metabolism and unique pathways		

Module 2, Week(6)		07/13-07/17	
	Lecture *) 8.30am - 10:00am	Seminar	Private study etc.
Mon 13	Communication in infection: prokaryotic cell signaling		seminar preparation, private study
Tue	Important bacterial infections: selected examples		
Wed	Fungal infections	Seminar	
Thu		Seminar	
Fri		Seminar	

Module 2, Week (7)		07/20-07/24	
	Lecture *) 8.30am - 10:00am	Seminar	Private study etc.
Mon 20			Private Study
Tue			
Wed			
Thu			
Fri	Written Examination		



Dalpke, Kubatzky, Eigebrnbrod
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*) lectures include time for active discussion