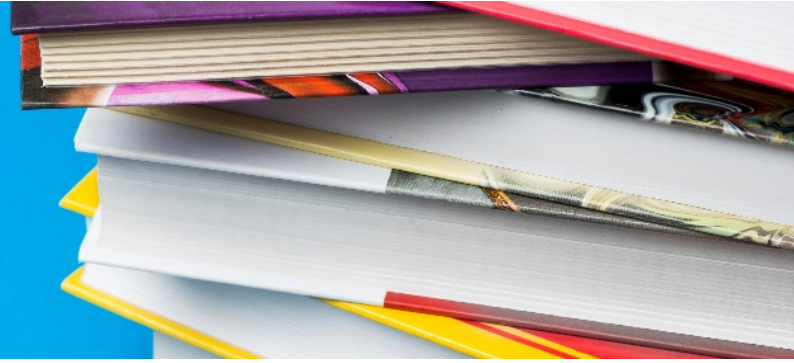




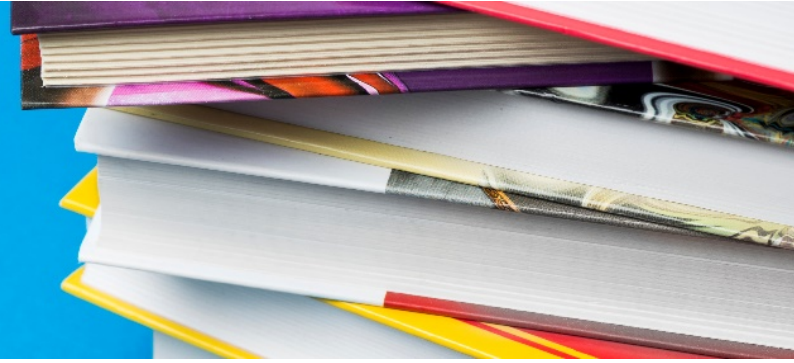
Full Syllabus



Course Title	
Selected Chapters in Cancer Biology	
Lecturers	
Prof. Dinorah Friedman-Morvinski, Prof. Vered Padler-Karavani, Dr. Lior Mayo, Prof. Gali Prag, Prof. Adit Ben-Baruch	
Semester	
2 nd semester (Bet)	
Course requirements	
Molecular Biology and Biotechnology (04552549), Immunology (04552688), Cell Biology (04551510), Genetics (04552526)	
Final grade components	
Final exam	
Course schedule	
Class no. / Date	Subject and Requirements (assignments, reading materials, tasks, etc.)
#1-	Introduction-Hallmarks of Cancer
#2-	Mouse models of Cancer <ul style="list-style-type: none">○ Mutagenic induced models○ Allograft/Xenograft models○ Transgenic/Knockout models○ Viral induced models
#3-	Tumor heterogeneity and Cancer Stem Cells <ul style="list-style-type: none">○ Stem cells/Cancer Stem Cell○ Tumor plasticity○ Tumor heterogeneity (spatial, temporal, intra and inter-heterogeneity)
#4-	Tumor angiogenesis <ul style="list-style-type: none">○ Normal and neoplastic endothelial cells○ Angiogenic switch○ Anti-angiogenic therapies
#5-	Cancer glyco-immunology <ul style="list-style-type: none">○ Carbohydrates in tumor initiation, progression and metastasis○ Glycan receptors in tumor initiation, progression and metastasis
#6-	Cancer glyco-immunology <ul style="list-style-type: none">○ Involvement of glycans in the hallmarks of cancer○ Novel approaches for glycol-therapy of cancer
#7-	Tumor microenvironment



Full Syllabus



	<ul style="list-style-type: none">○ Players of the TME - Stroma cells
#8-	Tumor microenvironment <ul style="list-style-type: none">○ Reprogramming of the TME
#9-	Tumor microenvironment <ul style="list-style-type: none">○ Metabolic Interactions in the Tumor Microenvironment○ Dissecting the Tumor Microenvironment
#10-	Immunotherapy I <ul style="list-style-type: none">● Tumor infiltrating lymphocytes (TILs, TILs in cancer therapy)
#11-	Immunotherapy II <ul style="list-style-type: none">○ Immune checkpoints○ Engineered T cells
#12-	Cancer therapeutics <ul style="list-style-type: none">○ Undruggable oncoproteins/example: Transcription factors○ Viruses in cancer therapy
#13-	Cancer therapeutics <ul style="list-style-type: none">○ PROTAC – a novel modality for cancer therapy.

Required course reading

Each lecturer will post the reading material in the course website

Optional course reading

Comments