

## Cancer Biology Course

### **MBGC 5020Q**

[Tuesday AND Friday at 10am - 12pm]

Virtual only (alternate venue: Cancer Center Room H1196

Confirmed by Course Instructor)

### **Course Website**

[https://njms.rutgers.edu/sgs/olc/cb\\_icscd/index.php](https://njms.rutgers.edu/sgs/olc/cb_icscd/index.php)

### **Course Description**

The Cancer Biology course entails a series of lectures and discussion of primary literature in the multiple aspects of cancer. Presentations are by experts in the different molecular and cellular aspects of alterations in cancer cells and the organism's response. The topics follow a recommended text. The course meets for 2 hours twice weekly, typically by the faculty members who are drawn from the NJMS Cancer Center as well as others in the MBGC program based on their expertise. It is held in NJMS-University Hospital Cancer Center which is accessible from the MSB as well as directly.

The objective is to serve as an introduction to mechanisms in cancer for those who intend to enter a laboratory engaged in cancer research and as a comprehensive review at the Ph.D. level for those students interested in fundamental cell regulation.

Students are advised to enroll in 5015Q in block 4 as well as 5020Q in block 3 although either course may be taken independently.

Faculty Contact:

Course Coordinator: Robert Wieder, MD, PhD

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## MBGC 5020Q

### Syllabus Block 3

#### MBGC Intrinsic Cell Signaling and Cancer Development

Chapter	Date 2023	Day	Topic	Lecturer
1-2	Jan. 2	Tuesday	The Clinical Nature of Cancer	Robert Wieder, MD PhD
3	Jan. 5	Friday	Tumor Viruses	David Lukac, PhD
3	Jan. 9	Tuesday	Tumor Viruses	David Lukac, PhD
4			Cellular Oncogenes	Ian Whitehead, PhD
4	Jan. 12	Friday	Cellular Oncogenes	Ian Whitehead, PhD
5	Jan. 16	Tuesday	Growth Factors and Receptors	Teresa Wood, PhD
5	Jan. 19	Friday	Growth Factors and Receptors	Teresa Wood, PhD
6			Cytoplasmic Signaling and Cancer	Raymond Birge, PhD
6	Jan. 23	Tuesday	Cytoplasmic Signaling and Cancer	Raymond Birge, PhD
	Jan. 26	Friday	<b>MIDTERM EXAM</b>	
7	Jan. 30	Tuesday	Tumor Suppressor Genes	Michael Lea, PhD
	Feb. 2	Friday	pRB and Control of the Cell Clock	Michael Lea, PhD
8	Feb. 6	Tuesday	p53 and Apoptosis	Melissa Rogers, PhD
	Feb. 9	Friday	p53 and Apoptosis	Melissa Rogers, PhD
9	Feb. 13	Tuesday	Warburg Effect & Intermediary Metabolism	Michael Lea, PhD
	Feb. 16	Friday	Warburg Effect & Intermediary Metabolism	Michael Lea, PhD
	Feb. 20	Tuesday	<b>FINAL EXAM</b>	

Grading Policy: normal grades based on two examinations

#### Textbook:

*The Biology of Cancer* by [Robert A. Weinberg](#)

Publisher: Garland Science; 2 Pap/Cdr/ edition (June 27, 2013)

1 copy, including the CD-ROM is on reserve in Smith Library

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