

CO-ORDINATOR: Dr. Lois Mulligan (Email: mulligal@queensu.ca)

TA: Dr. Victoria Hoskin (Email: v.hoskin@queensu.ca)

DATE and TIME: TUESDAYS 10:30 AM - 1:00 PM EST

FORMAT: Lecture and seminar based course offered using Zoom

COURSE OVERVIEW:

The aim of this course is to introduce current topics and key concepts at the interface of basic science and clinical application in oncology. Students with an interest in all aspects of cancer research from basic mechanisms to clinical translation are encouraged to take this course. The overall theme for the course will be mechanisms regulating neoplastic transformation and tumor progression. General areas to be discussed will include pathology of cancer; epidemiology of population risks; molecular and cellular mechanisms of oncogenesis; tumour initiation, progression and metastasis; oncogenes and tumour suppressors; the relationship of tumour and microenvironment, and determinants of therapeutic response. In order to provide a balance and high profile in all areas, various faculty members in the Cancer Research Institute and associated departments have been selected as session leaders to provide expertise based on their own areas of research interest in the context of the course themes.

The course aims to: 1) provide fundamental as well as cutting edge concepts relevant to each cancer biology session topic; and 2) improve the student's ability to recognize challenges in these areas, while clearly and concisely articulating their ideas to overcome them.

EVALUATION

Weekly Assessments	20%
Presentation	20%
Essay Abstract	5%
Essay	25%
Class Participation/ Team Contributions	10%
Final Evaluation	20%

SESSION LEADER CONTACT INFO

Name	Email	Tel Ext	Name	Email	Tel Ext
Dr. Abraham	SA183@queensu.ca	32975	Dr. Koti	madhuri.koti@queensu.ca	32498
Dr. Boag	Alexander.Boag@kingstonhsc.ca	32850	Dr. Lebrun	david.lebrun@queensu.ca	33209
Dr. Cottrell	TRC3@queensu.ca	36035	Dr. Mulligan	mulligal@queensu.ca	77475
Dr. Craig	AC15@queensu.ca	32496	Dr. Nicol	nicolc@queensu.ca	36531
Dr. Feilotter	HF4@queensu.ca	32932	Dr. Richardson	hrichardson@ctg.queensu.ca	78958
Dr. Greer	greerp@queensu.ca	75081	Dr. Yang	yangx@queensu.ca	75998

COURSE SCHEDULE

WK	DATE	DURATION	TOPIC	SESSION LEADER
1	8 Sept	10:30-1:00	Introduction and Cancer Initiation & Progression	Mulligan
2	15 Sept	10:30-11:30 11:30-1:00	Pathology of Cancer	Boag Cottrell
3	22 Sept	10:30-1:00	Epidemiology of Cancer	Richardson
4	29 Sept	10:30-1:00	The Cancer Genome	Feilotter
5	6 Oct	10:30-1:00	Nuclear Oncogenes & Gene Transcription **ABSTRACT DUE**	Lebrun
6	13 Oct	10:30-1:00	Growth Factors & Signal Transduction Pathways	Mulligan
7	20 Oct	10:30-1:00	Mechanisms of Tumour Suppression	Yang
8	27 Oct	No Class	Fall Reading Week	-
9	3 Nov	10:30-1:00	Tumour Microenvironment	Craig
10	10 Nov	10:30-1:00	Tumour Initiating Cells	Abraham
11	17 Nov	10:30-1:00	Cancer Angiogenesis & Metastasis **ESSAY DUE**	Greer
12	24 Nov	10:30-1:00	Molecular Biology of Metastasis	Nicol
13	1 Dec	10:30-1:00	Treatment Response	Koti
	8 Dec		Summative Evaluations	-