

PATH822 *Experimental Cancer Therapeutics*

COURSE OUTLINE 2021

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

TA: Tim Walker (tjw5@queensu.ca)

DATE AND TIME: Tuesdays, 9:30 AM - 12:00 PM

LOCATION: Cancer Research Institute (CRI) Room 100 (tentative)

GENERAL COURSE FORMAT:

The course will introduce and explore essential questions in basic science and translational approaches to experimental cancer therapeutics. Students will be preassigned reading material for each class to introduce the discussion topic and provide background. Weekly assigned activities will allow students to focus in and highlight the key highlights in these readings. Each class begins with a presentation or group learning activity led by the topic Session Leader (~ 1 hr). After a short break, individual student presentations (~20 min) of assigned papers will be followed by a question period (~10 min). The presenting student poses two questions to the class and is expected to use these as a “jumping off spot” to lead the following class discussion. The session leader and coordinator may provide some additional comments or overall appraisal, as appropriate.

Students will also be evaluated on ability to read and critique current literature through peer review and “mini-editorial board” team-learning activities that will be incorporated into some classes. A final written assignment will evaluate students’ abilities to synthesize what they have learned.

The course aims are to: 1) provide information on fundamental, as well as state of the art, concepts being applied to overcome challenges in the field of cancer therapeutics; and 2) enhance the student’s skills to recognize fruitful areas of research, apply learned concepts, and clearly and concisely articulate their ideas to expert and non-expert audiences.

EVALUATION

Presentation	25%
Mini-Editorial Board	3x 10%
Class Participation and Weekly Assignments	15%
Final Evaluation	30%

SESSION LEADER CONTACT INFO

Name	Email	Queen’s Ext.
Dr. Cole	spc.cole@queensu.ca	32636
Dr. Craig	ac15@queensu.ca	32496
Dr. Crupi	mcrupi@ohri.ca	
Dr. Dancey	JDancey@ctg.queensu.ca	75606
Dr. Gaudreau	p-ogaudreau@ctg.queensu.ca	
Dr. Greer	greerp@queensu.ca	75081
Dr. Hanna	Tim.hanna@queensu.ca	
Dr. Mulligan	mulligal@queensu.ca	77475
Dr. Nicol	nicolc@queensu.ca	36531
Dr. Rauh	rauhm@queensu.ca	32818
Dr. Renwick	Neil.Renwick@queensu.ca	36411
Dr. Vizeacoumar	franco.vizeacoumar@usask.ca	

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COURSE SCHEDULE

WK	DATE	TOPIC	SESSION LEADER
1	7 Sept	Overview and Introduction to Drug Development	Mulligan
2	14 Sept	Molecular basis of oncogenic transformation and signaling	Mulligan
3	21 Sept	Challenges of Current Cancer Therapies Mini-Editorial Board I	Cole
4	28 Sept	Tumour variability & molecular evolution: impacts on treatment strategies	Rauh
5	5 Oct ** Zoom**	Drug Discovery Small Molecules	Vizeacoumar
6	12 Oct	Drug Discovery II (nonsmall molecules, RNAi, etc)	Renwick
7	19 Oct	Experimental Drug Delivery Mini-Editorial Board II	Nicol
8	26 Oct ** Zoom**	Oncolytic Virus	Crupi
9	2 Nov	Preclinical Models for Validating Experimental Targets	Greer
10	9 Nov	Emerging approaches for Immunoncology	Craig
11	16 Nov	Clinical/translational progress for immunotargeted therapy Mini-Editorial Board III	Gaudreau
12	23 Nov	Cancer Drug Development: State of the Art in Canada	Dancey
13	30 Nov	Novel therapies and Real-world outcomes	Hanna