

CAMB 704:**Stress Responses and Metabolism in Cancer****Fall Term 2019**

Course co-Directors: Terence Gade, Zoltan Arany, and Katy Wellen

Canvas: Lyndsey Ann Makinen

The course will meet in 1101 BRB II/III, Thurs 1-3 PM (unless otherwise noted)***Metabolomics methods lectures***

		<i>Lecturer</i>
Aug 29	Meet and Greet	Course directors
Sep 5	Lecture: Metabolomics I	Aalim Weljie
Sep 12	Lecture: Metabolomics II	Chris Petucci
Sep 19	Lecture: MS/NMR based metabolic labeling/flux	Tony Mancuso

Student Presentations

		<i>Faculty Leader</i>	<i>Student presenter</i>
Sept 26	Glucose and glutamine metabolism	Zachary Schug	
Oct 3	Hypoxia/HIF/Myc	Celeste Simon	
Oct 10	mTOR signaling	Terence Gade	
Oct 17	Autophagy and macropinocytosis	Ravi Amaravadi	
Oct 24	Metabolism and epigenetics	Katy Wellen	
Oct 31	IDH mutations	Martin Carroll	
Nov 7	NAD/Sirtuins	Joe Baur	
Nov 14	Integrated Stress Response	Andrew Hu	
Nov 21	Immunometabolism	Will Bailis	
Dec 5	Endothelial Cell metabolism	Zolt Arany	
Dec 12	Organismal Metabolism	Paul Titchenell	
Dec 19	ROS/ mitochondrial metabolism	Xiaolu Yang	

Presentations: We want you to put together a presentation that integrates the data of the papers, comparing and contrasting the results, the quality of the data and the technologies used. You should not only be a presenter but also a discussion leader, eliciting opinions from the group on the results and whether or not there is agreement with the conclusions. Each week of student presentations will begin with 10-15 minutes (**no more!!**) introduction by the faculty leader for that day. Not all of the data in a paper needs to be presented; and the papers do not have to be presented one after the other. Instead, you should put together a seminar that integrates the important data from all the papers in a way that makes points and builds to a conclusion or a controversy; in other word, in a way that tells a story. The papers assigned can be augmented by a papers you find that will strengthen your presentation, possibly by introducing controversy. As mentioned above you should work with the faculty member assigned to your topic to put together the presentation and discuss any additional papers you may want to discuss. After your presentations, the class will be asked to submit evaluations directly to you. You will also meet with the co-organizers to discuss the presentation.

50% of your grade will be based on your presentations.

Discussion: The success of a seminar course depends on group discussion. Each week you should come to class knowledgeable enough with the material that you could talk about it in detail. You should be ready to ask questions and enter into discussions. If you don't understand something, ask and get a discussion going. Come to class with at least **2** questions prepared from the assigned papers: these will be collected by the directors.

50% of your grade will be based on your participation in questioning and discussions.

