

CAMB 704:**Stress Responses and Metabolism in Cancer****Fall Term 2023**

Course co-Directors: Terence Gade, Zach Schug, Katy Wellen

Canvas: Lyndsey Ann Makinen

The course will meet in BRB 1101, Thurs 1:45-3:45 PM***Metabolomics methods lectures***

		<i>Lecturer</i>	<i>Directors</i>
Aug 31	Meet and Greet	Course Directors	All
Sep 7	Lecture: Metabolomics and Isotope Tracing	Aalim Weljie	TG, ZS
Sep 14	Lecture: Metabolic Enzyme Biochemistry	Ronen Marmorstein	TG, ZS

Student Presentations

		<i>Faculty Leader</i>	<i>Student Presenter</i>	<i>Directors</i>
Sep 21	NAD Metabolism	Joe Baur		TG, ZS
Sept 28	Glucose Metabolism	Zachary Schug		ZS, KW
Oct 5	Hypoxia/HIF/MYC	Celeste Simon		TG, KW
Oct 12	Amino Acid Metabolism	Zolt Arany		TG, ZS
Oct 19	Organismal Metabolism	Paul Titchenell		KW, ZS
Oct 26	Mitochondrial Metabolism	Caroline Bartman		KW, TG
Nov 2	Integrated Stress Response	Crystal Conn		KW, TG
Nov 9	IDH Mutation	Nico and Sarah Skuli		KW, TG
Nov 16	Metals and Metabolism	Donita Brady		ZS, KW
Nov 30	Immunometabolism	Will Bailis		TG, ZS
Dec 7	Metabolism and Epigenetics	Katy Wellen		KW, ZS
Dec 14	mTOR/AMPK/Autophagy	Terence Gade		TG, KW
Dec 21	End-of-Year Wrap-Up/Make-up	Course Directors		All

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.