

### CAMB 6100: Gene Therapy and Genome Editing - Fall 2022

Monday / Wednesday / Friday 1:45-3:15 PM, unless otherwise indicated

Director: Kiran Musunuru, MD, PhD, MPH, ML (email: kiranmusunuru@gmail.com)

	Day	Date	Time	Room	Format	Instructor	Topic
<b>UNIT 1: Genome Editing, Gene Therapy, and Vector Platforms</b>	W	31-Aug	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	History, foundations, and principles of genome editing
	F	2-Sep	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Zinc finger nucleases and TALENs
	M	5-Sep					NO CLASS - Labor Day
	W	7-Sep	2:15 - 3:15 pm	BRB 701	Lecture	Musunuru	CRISPR-Cas9 and other RNA-guided endonucleases
	F	9-Sep					NO CLASS - GTV Retreat
	M	12-Sep	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Defining, improving, and altering the specificities of genome-editing tools
	W	14-Sep					NO CLASS
	F	16-Sep	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Basics of immunology part 1
	M	19-Sep	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Basics of immunology part 2
	W	21-Sep					NO CLASS
	F	23-Sep	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Immunology assays
	M	26-Sep	2:00 - 4:00 pm	TRL room 124	Lecture	Wilson	Adenovirus, part 1 & part 2
	W	28-Sep	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Hands-on workshop with CRISPR-Cas9 (computer-based)
	F	30-Sep	2:00 - 3:00 pm	BRB 701	Lecture	Rivella	Retrovirus
	M	3-Oct	2:00 - 3:00 pm	BRB 701	Lecture	Weissman	mRNA
	W	5-Oct	2:00 - 3:00 pm	BRB 701	Lecture	Rivella	Lentivirus
	F	7-Oct	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Research applications of genome editing, part 1
	M	10-Oct	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Research applications of genome editing, part 2
	W	12-Oct	2:00 - 3:00 pm	BRB 701	Lecture	Bushman	Characterizing integration events
	F	14-Oct	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Therapeutic applications of genome editing, part 1
	M	17-Oct	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Therapeutic applications of genome editing, part 2
	W	19-Oct	2:00 - 4:00 pm	TRL room 124	Lecture	Wilson	AAV, part 1 & part 2
	F	21-Oct	2:00 - 3:00 pm	TRL room 124	Lecture	Wilson	AAV, part 3
	M	24-Oct	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Base editing and prime editing
	W	26-Oct	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Hands-on workshop with base editing (computer-based)
	F	28-Oct	1:45 - 3:15 pm	BRB 701	Lecture	Musunuru	Ethics of human germline genome editing
M	30-Oct					NO CLASS - EXAM WEEK	
W	2-Nov	1:00 - 4:00 pm	TBA			EXAM, UNIT 1	
F	4-Nov					NO CLASS - EXAM WEEK	
<b>UNIT 2: Clinical Applications</b>	M	7-Nov	1:45 - 3:15 pm	BRB 701		Musunuru	EXAM REVIEW
	W	9-Nov	1:45 - 3:15 pm	BRB 701		Musunuru	INTRO TO RESEARCH PROPOSALS
	F	11-Nov	2:00 - 3:00 pm	BRB 701	Lecture	TBA	TBA
	M	14-Nov	2:00 - 3:00 pm	BRB 701	Lecture	TBA	TBA
	W	16-Nov	2:00 - 3:00 pm	BRB 701	Lecture	Marrazzo	Taking gene therapies to the clinic
	F	18-Nov	2:00 - 3:00 pm	BRB 701	Lecture	TBA	TBA
	M	21-Nov					NO CLASS - Thanksgiving
	W	23-Nov					NO CLASS - Thanksgiving
	F	25-Nov					NO CLASS - Thanksgiving
	M	28-Nov	2:00 - 3:00 pm	BRB 701	Lecture	TBA	TBA
	W	30-Nov	2:00 - 3:00 pm	BRB 701	Lecture	Posey	Cancer immunotherapy
	F	2-Dec	2:00 - 3:00 pm	BRB 701	Lecture	TBA	TBA
	M	5-Dec	2:00 - 3:00 pm	BRB 701	Lecture	TBA	TBA
	W	7-Dec	1:45 - 3:15 pm	BRB 701			STUDENT PRESENTATIONS
F	9-Dec	1:45 - 3:15 pm	BRB 701			STUDENT PRESENTATIONS	