

CAMB 610: Gene Therapy and Genome Editing - Fall 2021

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
UNIT 1: Genome Editing, Gene Therapy, and Vector Platforms	F	3-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	History, foundations, and principles of genome editing
	M	6-Sep					NO CLASS - Labor Day
	W	8-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	Zinc finger nucleases and TALENs
	F	10-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	CRISPR-Cas9 and other RNA-guided endonucleases
	M	13-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	Defining, improving, and altering the specificities of genome-editing tools
	W	15-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	Research applications of genome editing, part 1
	F	17-Sep					NO CLASS
	M	20-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	Research applications of genome editing, part 2
	W	22-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	Therapeutic applications of genome editing, part 1
	F	24-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	Therapeutic applications of genome editing, part 2
	M	27-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	Basics of immunology part 1
	W	29-Sep					NO CLASS
	F	1-Oct	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	Basics of immunology part 2
	M	4-Oct	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	Immunology assays
	W	6-Oct	2:00 - 3:00 pm	TBA	Lecture	Wilson	Adenovirus, part 1
	F	8-Oct	2:00 - 3:00 pm	TBA	Lecture	Wilson	Adenovirus, part 2
	M	11-Oct	2:00 - 3:00 pm	TBA	Lecture	Wilson	AAV, part 1
	W	13-Oct	2:00 - 3:00 pm	TBA	Lecture	Wilson	AAV, part 2
	F	15-Oct	2:00 - 3:00 pm	TBA	Lecture	Wilson	AAV, part 3
	M	18-Oct	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	Ethics of human germline genome editing
	W	20-Oct	1:45 - 3:15 pm	CRB 205	Lecture	Musunuru	Hands-on workshop with CRISPR-Cas9 (computer-based)
	F	22-Oct	2:00 - 3:00 pm	CRB 205	Lecture	Bushman	Characterizing integration events
	M	25-Oct	2:00 - 3:00 pm	CRB 205	Lecture	Rivella	Retrovirus
	W	27-Oct	2:00 - 3:00 pm	CRB 205	Lecture	Weissman	mRNA
	F	29-Oct	2:00 - 3:00 pm	CRB 205	Lecture	Rivella	Lentivirus
	M	1-Nov					NO CLASS
W	3-Nov	1:00 - 4:00 pm	TBA			EXAM, UNIT 1	
F	5-Nov					NO CLASS	
M	8-Nov	2:00 - 3:00 pm	CRB 205		Musunuru	EXAM REVIEW	
UNIT 2: Clinical Applications	W	10-Nov	2:00 - 3:00 pm	CRB 205		Musunuru	INTRO TO RESEARCH PROPOSALS
	F	12-Nov	2:00 - 3:00 pm	CRB 205	Lecture	TBA	TBA
	M	15-Nov	2:00 - 3:00 pm	CRB 205	Lecture	TBA	TBA
	W	17-Nov	2:00 - 3:00 pm	CRB 205	Lecture	TBA	TBA
	F	19-Nov	2:00 - 3:00 pm	CRB 205	Lecture	TBA	TBA
	M	22-Nov					NO CLASS - Thanksgiving
	W	24-Nov					NO CLASS - Thanksgiving
	F	26-Nov					NO CLASS - Thanksgiving
	M	29-Nov	2:00 - 3:00 pm	CRB 205	Lecture	TBA	TBA
	W	1-Dec	2:00 - 3:00 pm	CRB 205	Lecture	TBA	TBA
	F	3-Dec	2:00 - 3:00 pm	CRB 205	Lecture	TBA	TBA
	M	6-Dec	2:00 - 3:00 pm	CRB 205	Lecture	TBA	TBA
	W	8-Dec	1:45 - 3:15 pm	CRB 205			STUDENT PRESENTATIONS
F	10-Dec	1:45 - 3:15 pm	CRB 205			STUDENT PRESENTATIONS	