

CAMB 6100: Molecular Basis of Genetic Therapies - Fall 2025

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

Directors: Kiran Musunuru, MD, PhD (primary contact, email: kiranmusunuru@gmail.com)

Co-Directors: Friederike Herbst-Nowrouzi, PhD; James Dowling, MD, PhD; Hansell Stedman, MD

Teaching Assistant: Sarah Grandinette (email: Sarah.Grandinette@pennmedicine.upenn.edu)

Day	Date	Time	Room	Format	Instructor	Topic
W	27-Aug	1:45 - 3:15 pm	CRB 205	Lecture	Kiran Musunuru	History, foundations, and principles of genome editing
F	29-Aug	1:45 - 3:15 pm	CRB 205	Lecture	Kiran Musunuru	Zinc finger nucleases and TALENs
M	1-Sep					NO CLASS - Labor Day
W	3-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Kiran Musunuru	CRISPR-Cas9 and other RNA-guided endonucleases
F	5-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Kiran Musunuru	Defining, improving, altering the specificities of genome-editing tools
M	8-Sep	1:45 - 3:15 pm	CRB 205	Workshop		Hands-on workshop with CRISPR-Cas9 nuclease, part 1
W	10-Sep	1:45 - 3:15 pm	CRB 205	Lecture	S. Grandinette (TA)	OFFICE HOURS
F	12-Sep	1:45 - 3:15 pm	CRB 205	Workshop		Hands-on workshop with CRISPR-Cas9 nuclease, part 2
M	15-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Kiran Musunuru	Genome editing to generate cellular and mouse models of disease
W	17-Sep					NO CLASS
F	19-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Kiran Musunuru	Therapeutic applications of genome editing, part 1
M	22-Sep	1:45 - 3:15 pm	CRB 205	Lecture	Kiran Musunuru	Therapeutic applications of genome editing, part 2
W	24-Sep	1:45 - 3:15 pm	CRB 205	Workshop		Hands-on workshop with base editing and epigenome editing
F	26-Sep	1:45 - 3:15 pm	CRB 205		S. Grandinette (TA)	OFFICE HOURS
M	29-Sep	1:45 - 3:15 pm	CRB 205	Lecture	S. Grandinette (TA)	Prime editing
W	1-Oct	1:45 - 3:15 pm	CRB 205	Workshop		Hands-on workshop with prime editing
F	3-Oct	1:45 - 3:15 pm	CRB 205	Lecture	Kiran Musunuru	Basics of immunology
M	6-Oct	1:45 - 3:15 pm	CRB 205			
W	8-Oct	1:45 - 3:15 pm	CRB 205			
F	10-Oct	1:45 - 3:15 pm	CRB 205			
M	13-Oct	1:45 - 3:15 pm	CRB 205			
W	15-Oct	1:45 - 3:15 pm	CRB 205			
F	17-Oct	1:45 - 3:15 pm	CRB 205			
M	20-Oct	1:45 - 3:15 pm	CRB 205			
W	22-Oct	1:45 - 3:15 pm	CRB 205			
F	24-Oct	1:45 - 3:15 pm	CRB 205			
M	27-Oct	1:45 - 3:15 pm	CRB 205			
W	29-Oct	1:45 - 3:15 pm	CRB 205			
F	31-Oct	1:45 - 3:15 pm	CRB 205			
M	3-Nov	1:45 - 3:15 pm	CRB 205			
W	5-Nov	1:45 - 3:15 pm	CRB 205			
F	7-Nov	1:45 - 3:15 pm	CRB 205			
M	10-Nov	1:45 - 3:15 pm	CRB 205			
W	12-Nov	1:45 - 3:15 pm	CRB 205			
F	14-Nov	1:45 - 3:15 pm	CRB 205			
M	17-Nov	1:45 - 3:15 pm	CRB 205			
W	19-Nov	1:45 - 3:15 pm	CRB 205			
F	21-Nov	1:45 - 3:15 pm	CRB 205			
M	24-Nov					NO CLASS - Thanksgiving
W	26-Nov					NO CLASS - Thanksgiving
F	28-Nov					NO CLASS - Thanksgiving
M	1-Dec	1:45 - 3:15 pm	CRB 205			
W	3-Dec	1:45 - 3:15 pm	CRB 205			
F	5-Dec	1:45 - 3:15 pm	CRB 205			STUDENT PRESENTATIONS