CAMB 637
Gene Therapy: Vectors, Immunology and Disease
Spring 2012
Thursdays, 4:00 to 6:00 PM
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Date	Topic	Instructor
12-Jan	Organizational meeting/Art of Paper Review and Presentation	Riley
19-Jan	The immune barrier to gene therapy:	Riley
26-Jan	Zinc Finger Nucleases	Riley
2-Feb	Re-directed Immune Responses	Riley
9-Feb	Inflammatory diseases	Chen
16-Feb	DNA vaccine	Weiner
23-Feb	Retroviral integration	Bushman
1-Mar	Adenoviral vectors	Betts
8-Mar	University Spring Break	
15-Mar	Adenoviral vectors	Vandenberghe
22-Mar	Adeno-associated virus Only can do this date	Johnson
29-Mar	Adeno-associated virus	Ertl
5-Apr	Cancer I:	Powell
12-Apr	Cancer II:	Albelda
19-Apr	Muscular dystrophy (Paper Reviews Due)	Stedman
26-Apr	CNS disorders	Wolfe
3-May	Discussion of Paper	

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This seminar course is designed to provide students with a cohesive understanding of virology and immunology of gene therapy. Three major themes will be covered: vectors, vector immunology and gene therapy of genetic and acquired diseases. The topics to be covered are viewed as an extension of topics covered in CAMB 610 (Molecular Basis of Gene Therapy), although CAMB 610 is not an absolute prerequisite for this seminar. Each class will be lead by students who will lead the discussion on the papers chosen by each instructor. The students should prepare sufficient background information so that the class can understand the importance of the given paper. Students are encouraged to contact the individual instructor prior to the class if they are having difficulty understanding the subject materials.

All students are expected to have thoroughly reviewed the assigned articles and be able to discuss various aspects of the papers. Regular attendance and active participation in the discussions, which focus on critical evaluation of experimental design, data presentation and interpretation, is essential. Student evaluation will be based on attendance, preparation and in-class participation. Prerequisite: Background in molecular biology, virology and immunology.

Course Directors:

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