

Graduate Immunology (Fall of 2024)

Central Teaching Goal:

- Review the contemporary literature in focused areas of immunology.
- Understand how to critique the scientific literature.

Teaching Faculty: Drs. Akshaya Meher, Michelle Ratliff, and Mark Mannie

Teaching Blocks: See next page

Enrolled Students: Abigail Dickerson, Mina Norman, Jodi Ogle, Sunny Sneed, Hannah Walsh

Teaching Format: We will use a discussion format throughout the course. The primary teaching faculty member will assign research articles, reviews, and/or textbook chapters for general discussion for each session. The lead faculty member will decide the modus operandi for each session (round robin presentation of figures or have a particular student lead for a particular paper).

Teaching Blocks: Each faculty member will focus on a scientific theme so that the series of articles covered within the scope of a given teaching block will have a higher-order theme.

Grading: Grading will be based on faculty assessments of student preparation and participation.

Schedule: The following schedule represents the current teaching schedule.

<i>Scheduled Meeting Times</i>						
Type	Time	Days	Where	Date Range	Schedule Type	Instructors
Regular Instruction	9:00 am - 11:00 am	Tuesday & Friday	BT110 Biotech Conference Room	Aug 20 th to Nov 26 th , 2024	Lecture	Mark D Mannie Course Director

Advanced Immunology - 86247 - MCBI 7450 - 001

Associated Term: Fall 2024

Levels: Professional (Doctorate/CAS)

Lecture Schedule Type

Face to Face Instructional Method

4.000 Credits

Schedule

<u>Session #</u>	<u>Date</u>	<u>Day</u>	Instructor	Topic
1	8/20/2024	Tuesday	Dr. Mark Mannie	Immune regulation (General principles)
2	8/23/2024	Friday	Dr. Mark Mannie	
3	8/27/2024	Tuesday	Dr. Mark Mannie	
4	8/30/2024	Friday	Dr. Mark Mannie	
5	9/3/2024	Tuesday	Dr. Mark Mannie	
6	9/6/2024	Friday	Dr. Mark Mannie	
7	9/10/2024	Tuesday	Dr. Mark Mannie	
8	9/13/2024	Friday	Dr. Mark Mannie	
9	9/17/2024	Tuesday	Dr. Mark Mannie	
10	9/20/2024	Friday	Dr. Michelle Ratliff	Stem cells, Cell-based engineering, Cell-based autologous therapy
11	9/24/2024	Tuesday	Dr. Michelle Ratliff	
12	9/27/2024	Friday	Dr. Michelle Ratliff	
13	10/1/2024	Tuesday	Dr. Michelle Ratliff	
Fall Break, no class	10/4/2024	Friday		
Fall Break, no class	10/8/2024	Tuesday		
14	10/11/2024	Friday	Dr. Michelle Ratliff	
15	10/15/2024	Tuesday	Dr. Michelle Ratliff	
16	10/18/2024	Friday	Dr. Michelle Ratliff	
17	10/22/2024	Tuesday	Dr. Michelle Ratliff	
18	10/25/2024	Friday	Dr. Michelle Ratliff	
19	10/29/2024	Tuesday	Dr. Akshaya Meher	Immune regulation in cardiovascular/ metabolic disease states.
20	11/1/2024	Friday	Dr. Akshaya Meher	
21	11/5/2024	Tuesday	Dr. Akshaya Meher	
22	11/8/2024	Friday	Dr. Akshaya Meher	
23	11/12/2024	Tuesday	Dr. Akshaya Meher	
24	11/15/2024	Friday	Dr. Akshaya Meher	
25	11/19/2024	Tuesday	Dr. Akshaya Meher	
26	11/22/2024	Friday	Dr. Akshaya Meher	
27	11/26/2024	Tuesday	Dr. Akshaya Meher	
Thanksgiving, no class	11/29/2024	Friday		

Modus Operandi to discuss a section in a review article – consider the following.

One should not try to cover ‘everything’.

What information is most germane to the title or main focus of the article?

Sometimes you will need to use other references to understand context and meaning, which is the transition from classrooms/ tests to the type of learning that will sustain your career.

Science is a game of assessing the possible possibilities. Scientists do not prove things.

Don’t worry about being wrong. If you have something to contribute, do not hold back – just state your point.

Modus Operandi to discuss a data presentation in a research article – answer the following questions.

What question is being addressed?

What is the general approach (i.e., the experimental system)?

What are the experimental manipulations?

What are the measurements?

What are the main results? Point to the primary data and controls needed to understand the main results.

What is the primary conclusion?

Does the experiment have broader significance? I hope so – otherwise should not waste our time.

Does the overlying conclusion provide a link to the question broached in the next figure?