MMG991 FS20 – Graduate Immunology (modular)
Syllabus

Mon & Wed from 3 to 4:30 PM by zoom

Instructors
Dr. Kefei Yu
5175 Biomedical Physical Sciences
Phone: 884-5354
Email: yuke@msu.edu

Dr. Margaret Petroff
1230D Anthony Hall
Phone: (517) 432-1385
Email: petrof10@msu.edu

Dr. Katheryn Meek
5190 Biomedical Physical Sciences
Phone: 884-5361
Email: kmeek@msu.edu

Dr. Yasser Aldhamen
4108 Biomedical Physical Sciences
Phone: (517) 884-5305
Email: aldhamen@msu.edu

Dr. Duohon Pyeon
4197 Biomedical Physical Sciences
Phone: (517) 884-5077
Email: dpyeon@msu.edu

Dr. Rupali Das
2195 Biomedical Physical Sciences
Phone: (517) 884-5049
Email: dasrupal@msu.edu

Dr. Cheryl Rockwell
B346 Life Sciences
Phone: 884-6692
Email: rockwelc@msu.edu

Course Objectives
This is an advanced immunology course that requires basic knowledge of molecular biology, cell biology, physiology and genetics. Prior completion of an undergraduate level immunology course (e.g. MMG451) is highly recommended. The students are expected to be familiar with the nomenclatures used in the field of immunology. Upon completion of the course, the students are expected to have an insightful understanding of the components of the immune
system and the principles of how the immune system works. This course is taught by a team of immunologists.

Three independent modules are offered.
1. **Molecular Immunology** (protein structures and functions of immune receptors and molecules, gene expression and regulation, DNA rearrangements and antigen receptor diversifications)
2. **Cellular Immunology** (Cells in the immune system, Lymphocytes development and differentiation, cellular interactions in immune responses)

The modules are offered in succession (no overlap in time) so students can choose freely to enroll in any combination. Each module counts for 1 credit. There will be an exam at the end of each module. Exam questions can be multiple choices, filling the blank, or short essay questions. The exams will be graded numerically (0-5).