MPIM - MICROBIAL PATHOGEN IMM

MPIM 601/VTMI 645 Microbial Pathogenesis of Human Disease

Credits 3. 3 Lecture Hours. Principles of microbe-host interactions at the molecular level; selected medically important infectious diseases serve as paradigms for understanding how multiple pathogenic mechanisms contribute to disease. Prerequisite: Approval of instructor. Cross Listing: VTMI 645/MPIM 601.

MPIM 602 Immunoregulation

Credits 3. 3 Lecture Hours. In-depth exploration of the genetic, cellular and molecular mechanisms by which humoral and cellular immune responses are regulated; regulatory T cell circuits, molecules (interleukins, lymphokines), isotypic and idiotypic regulation, hormonal effects, immunoregulatory defects, experimental manipulation of immunoregulatory networks. Prerequisites: VTMI 649/POSC 649, BIOL 610 and approval of instructor.

MPIM 620 The Scientific Basis of Medicine

Credit 1. 1 Other Hour. A Journal Club in which recent research papers relevant to Medicine are presented by students and discussed by students and faculty.

MPIM 663/VTMI 663 Molecular Biology of Animal Viruses

Credits 3. 3 Lecture Hours. In-depth studies of the biochemistry and replication strategies of animal viruses and molecular mechanisms of pathogenesis for selected viral systems. **Prerequisite:** Graduate classification in virology, molecular biology, biochemistry or approval of the instructor. **Cross Listing:** VTMI 663/MPIM 663.

MPIM 665 Viral Vectors and Gene Therapy

Credits 3. 3 Lecture Hours. This course will describe various viral vector systems, their development, and their use as research tools in biotechnology and in gene therapy. The course will consist of a mixture of short lectures and discussion of papers from the literature. Prerequisites: MPIM 663/VTMI 663 or approval of instructor. Cross Listing: VTMI 665 and PLPA 665.

MPIM 685 Directed Studies

Credits 1 to 6.1 to 6 Other Hours. Limited investigation in fields other than those chosen for thesis or dissertation. **Prerequisite:** Approval of instructor.

MPIM 689 Special Topics

Credits 1 to 4. 1 to 4 Lecture Hours. Selected topics in an identified area of medical sciences. May be repeated for credit. **Prerequisite:** Approval of instructor.