TRMD 7180 Immunoparasitology

Professor: Nirbhay Kumar, PhD

Credits: 2

Semester(s) Offered: Spring

Course Description:

Prerequisite: TRMD 617. Designed to provide students of medicine, the basic sciences and public health with an understanding of the role of immunity to parasitic infections. Special emphasis will be placed on current knowledge of mechanisms of immunity to protozoal and helminth infections that cause malaria, trypanosomiasis, leishmaniasis, schistosomiasis, and filariasis, some of the most widespread and debilitating diseases still plaguing the world. Additional topics may be covered according to student needs and trends in the field.
Learning Objectives:

1. Describe the basic immune mechanisms and principles of immunity to infectious agents with an emphasis on the role of cytokines in the resistance and susceptibility to parasitic diseases.

2. Describe the cellular interactions which are required for immune recognition, and the regulation of immune responses and effector function in the immunity to and the immunopathogenesis of important protozoan and helminth infections of humans.