

Keck School of Medicine of USC

Infectious Diseases, Immunology & Pathogenesis (Ph.D.) Learning Objectives

Upon completion of this program, students will be able to:

1. Develop strategies to translate knowledge from cellular, molecular and genetic advances into studies of normal human organ system function
2. Develop approaches to elucidate mechanisms of human organ system dysfunction in disease
3. Develop approaches and innovative technologies to enable the reversal of this dysfunction by medical treatment.
4. Integrate animal disease models as well as clinical trial data to develop these strategies
5. Design hypothesis-driven scientific studies to address major problems in the field
6. Practice creative thinking in proposal development, experimental design and problem solving.
7. Develop and practice skills in deductive logic and interpretation of scientific results.
8. Develop and practice skills in communication to a scientifically literate audience.
9. Write effective grant proposals and scientific publications to disseminate important knowledge to the field.