INFECTIOUS DISEASE AND IMMUNOLOGY (IDIM)

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IDIM 400 Infections and Immunology (3 Credit Hours)
IDIM400 integrates basic knowledge of infectious microorganisms with an understanding of innate and adaptive immune systems that react against them. Following a review of infections caused by specific infectious organisms, IDIM400 will focus on specific aspects of immune systems and how they interact to remove these infectious microorganisms. Explain the cellular basis of immune development; 2. Differentiate between the mechanisms of activation of immune systems; 3. Analyze the mechanisms involved in combating bacterial and viral infections.

Outcomes:
1

IDIM 401 Conceptual Bases of Infectious Diseases (2 Credit Hours)
IDIM401 integrates a basic science understanding of microorganisms with an understanding of their role in human health. Following a review of bacterial physiology and gene expression, the focus will be on bacterial disease, including basic strategies used to cause disease and details of pathogenesis by medically important bacterial pathogens.

Outcomes:
1) Describe differences between bacteria and eukaryotes; 2) Understand mechanisms by which bacteria cause disease; 3) Understand limitations of current antimicrobial therapies; 4) Differentiate between similar diseases with different causes

IDIM 403 Parasitology and Virology (2 Credit Hours)
Pre-requisites: IDIM 400 The Parasitology and Virology course IDIM 403 is designed to describe infections caused by microorganisms and animal diseases transmissible to man, with a primary focus on parasites and viruses
We will emphasize the pathophysiology of these diseases in humans of various ages. This course will promote an understanding of how the properties of certain infectious agents can in some cases avoid an adequate immune response. Explain the mechanisms of pathogenicity of various infectious agents; 2. Analyze the mechanisms by which emerging viruses arise; 3. Apply knowledge to viral vaccine development.

Outcomes:
1

IDIM 418 Presentation skills (1 Credit Hour)
Scientists must communicate their work in numerous venues, from giving oral presentations in seminars and conferences to writing papers and grant proposals. This course is designed to train students in the design and delivery of effective oral presentations, a skill that can be readily adapted to serve as a starting point for written communications. Identify elements of an effective oral presentation; 2. Deliver an effective oral presentation; 3. Judge the effectiveness of oral presentations.

Course equivalencies: IDIM418/BMSC418

Outcomes:
1

IDIM 492 Research (1-8 Credit Hours)
A major component of the M.S. degree in Infectious Disease and Immunology is the successful completion of a research project integrating basic and clinical science. IDIM 492 is designed to give credit for the research efforts that will result in the Master's thesis.