



Register Now!
Spring 2023

Pathobiology of Cystic Fibrosis
MEDMCIM 5600/6500 (3 Credit hours)

Course Description: Discover the amazing history and rapidly evolving understanding of cystic fibrosis (CF)! From diagnosis and clinical manifestations to the growing understanding that CF is a globally underrecognized disease, learners will explore the genetics and basic physiology of the CF transmembrane receptor (CFTR) ion channel and how impaired function impacts airway health, inflammation, and immune cell function. In understanding these mechanisms in relation to complex polymicrobial lung infections, learners will decipher the complexity of health and disease in people with CF, current treatments, and the changing landscape of experimental approaches being evaluated and used to cure disease in people with CF.

Course instructors will be clinicians and basic scientists in the Cure CF Columbus Research Development Program (C3RDP) <https://www.curecfcolumbus.org>. Each module consists of a lecture, discussion, and journal club format featuring seminal research articles and cutting-edge science. This format will help learners develop the ability to evaluate scientific literature in a journal club format and comprehend and convey the impact of scientific discoveries in the fields of Genetics, Immunology, Microbial Pathogenesis, and Pharmacology and Therapeutics.

Course Directors:

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