Dr. Hines studies occupational & environmental lung disease with a particular focus on pulmonary physiology. She has a distinct interest in characterizing unique exposures in military populations, ranging from inhalational and systemic metal exposures, blast impact and other airborne hazards in relation to measures of pulmonary physiology, including respiratory impedance. She also studies the use of different forms of respiratory protection among healthcare workers as protection from occupational hazards, with goals of improving preparedness for emerging infectious disease threats and strengthening the healthcare workforce infrastructure.

Highlighted Publications:


Links:
Don Milton (dmilton@umd.edu):

Dr. Milton’s work focuses on the interrelated areas of infectious bioaerosols, exhaled breath analysis, and development and application of innovative methods for respiratory epidemiology. Fellows working in my lab will have the opportunity to participate in a variety of federally funded research projects. Currently the lab is working on development and testing of innovative non-invasive measurement of deep lung biomarkers with a transdisciplinary team of engineers, molecular biologists, and photonics experts. Dr. Milton is also performing molecular epidemiologic studies of the importance of the airborne mode in transmission of influenza and other respiratory viruses using whole genome sequencing of viruses from exhaled breath aerosols and NP swabs to identify the source of transmitted viruses.

Highlighted Publications:

Links:
Faculty webpage: http://sph.umd.edu/people/donald-milton
CATCH-the virus study page: https://catch.umd.edu/
Google Scholar Profile: https://scholar.google.com/citations?user=35qhH0QAAAAJ&hl=en