



Francois Lebreton, PhD

Head of Bioinformatics

Walter Reed Army Institute of Research

U.S. Department of Defense

Tracking Emerging Mechanisms of Resistance with Genomics

Dr. Francois Lebreton is the head of bioinformatics within the Multidrug-resistant organism Repository & Surveillance Network (MRSN) at the Walter Reed Army Institute of Research. His team uses next generation sequencing and comparative genomics to provide real-time surveillance and detection of MDR bacterial outbreaks in a large network of military treatment facilities, in continental USA and overseas. His research focuses on conducting retrospective and prospective outbreak analyses to identify the factors that influence the emergence of MDR populations, their distinguishing characteristics, and the evolutionary drivers that shape them.