



Md Abu Sayeed

PHD IN ONE HEALTH

Why did you choose the University of Florida?

As my research interest matched with my current lab's research, I chose the University of Florida to pursue my PhD degree. In addition, the public health program of UF is one of the top ranked programs in USA.

What philosophy guides you in your education?

To become successful, we need to get experience from our failures.

Educational Background

Bachelors

Bachelor of Science

Biochemistry and Molecular Biology

Masters

Master of Science

Biochemistry and Molecular Biology

Research Interests:

Understanding the predator and prey relationship between phage and its host using cholera as a model. My research focuses on the investigation of vibriophage interference in cholera diagnosis and the development of an enhanced rapid diagnostic test with high sensitivity for cholera. I am also looking at the effect of phage-induced antibodies in human host to phage therapy.

Career Goals

To become an independent scientist in the field of infectious disease.

What is your research experience?

- Development of an Inaba OSP:rTTHc cholera conjugate vaccine and assessment of a range of doses, molar ratios of polysaccharide to carrier, immunization routes, and presence or absence of adjuvant.
- Evaluation of humoral and cellular immune responses against Salmonella Typhi antigens in typhoid patients and vaccinees
- Development of lateral flow immunoassay for the diagnosis of enteric fever and cholera
- Determination of functional role of antibodies in S. Typhi infection and typhoid vaccination using opsonophagocytosis and typhicidal assays
- Enteric disease surveillance in Bangladesh using TaqMan Array Card (TAC) assay

If you could solve one environmental and/or global health problem, what would it be?

Vaccine availability for all infectious diseases.