

**Ornob Alam**

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**Education**

Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA  
2015 Sc.M. Molecular Microbiology & Immunology  
Thesis: “*The Effects of Elevated Testosterone on the Outcome of ma2009 H1N1 Influenza A Virus infection in Old Male Mice.*”  
Thesis Advisor: Sabra Klein, Ph.D

Florida State University, Tallahassee, Florida, USA  
2013 B. Sc. Biological Science

Sunnydale, Dhaka, Bangladesh  
2009 GCE A' levels (Math, Biology, Chemistry, Physics)

**Employment Experience**

Independent University, Bangladesh (IUB), Bashundhara, Dhaka, Bangladesh  
School of Life Sciences  
*Lecturer, January, 2016- Present*

Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA  
Klein lab, Department of Molecular Microbiology & Immunology  
*Research Associate, September 2014- May 2015*

**Research Experience**

Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA  
Department of Molecular Microbiology & Immunology  
*Thesis Research & Research Associate position*

- Conducted animal studies, including infection, dissection and tissue collection
- Virological and immunological assays such virus titration, ELISAs, virus neutralization, radioimmunoassays, and immunohistochemistry

Florida State University, Tallahassee, Florida, USA  
Department of Molecular Biology  
*Undergraduate research*

- BAC and plasmid purification, molecular cloning, and genetic recombineering

## **Honors/Awards**

- 2012 Undergraduate Research and Creative Activities Award.
- 2014 Recipient of a Federal Work-Study Award.
- 2014 Recipient of a Minority Summer Stipend from NIAR37AG021092 awarded to Dr. Barry Zirkin.
- 2015 1<sup>st</sup> Place winner (Student category) of 8<sup>th</sup> Annual Research on Aging Showcase Poster Competition.

## **Publications**

VomSteeG LG, Vermillion MS, Hall OJ, Alam O, McFarland R, Chen H, Zirkin B, Klein SL. Age and testosterone mediate influenza pathogenesis in male mice. *Am J Physiol Lung Cell Mol Physiol*.4:ajplung.00352.2016.doi: 10.1152/ajplung.00352.2016. 2016 Nov  
(Impact Factor 4.72)

## **Presentations**

Alam OA & Gilbert DM, 2012. "Is Late Replication Necessary for G9a-Mediated Methylation to Occur?" Undergraduate Research and Creative Activities Awards Symposium, Florida State University, Tallahassee, FL.

Alam OA, VomSteeG LG, Hall OJ, McFarland R, Liu J, Chen H, Zirkin B, Klein SL, 2015. "Testosterone Protects Young and Old Male Mice Against Influenza A Virus Infection". Delta Omega Poster Competition, Johns Hopkins Bloomberg School of Public Health.

Alam OA, VomSteeG LG, Vermillion MS, Hall OJ, McFarland R, Liu J, Chen H, Zirkin B, Klein SL, 2015. "Testosterone Protects Young and Old Male Mice Against Influenza A Virus Infection". The 8<sup>th</sup> Annual Research on Aging Showcase Poster Competition, Johns Hopkins Bloomberg School of Public Health.