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EDUCATION

Ph.D. in Biomedical Sciences (2019)

Department of Pathobiology, College of Veterinary Medicine, Auburn University, AL, USA

M.S. in Microbiology (2007)

Department of Microbiology, University of Dhaka, Bangladesh

B.Sc. (Honors) in Microbiology (2005)

Department of Microbiology, University of Dhaka, Bangladesh

RESEARCH & PROFESSIONAL EXPERIENCE

September 2024 – Present Assistant Research Professor

Avian infectious disease and immunology, focusing on immunosuppressive viruses in broilers
Poultry Science, Auburn University, AL

January 2023 – August 2024 Postdoctoral Fellow

Intervention strategies to predict, prevent, and control emerging strains of virulent NDV
Pathobiology, Auburn University, AL

November 2019 – December 2022 Postdoctoral Research Fellow

Protein post-translational modification and host restriction factors in Epstein-Barr virus life cycle
Oral & Craniofacial Molecular Biology
Virginia Commonwealth University, Richmond, VA

HONORS AND AWARDS

P.P. Levine Award, Best article 2020 (Avian Dis. 64:23-35), AAAP	2021
American Society for Virology Postdoctoral Scholar Travel Award	2021
Postdoctoral Research Award, Research Day	2021
Cellular and Molecular Biosciences (CMB) Fellowship, Auburn University, USA	2013-2014
Dhaka University Graduate Scholarship, Bangladesh	2005-2006

PROFESSIONAL SERVICE AND MEMBERSHIPS

American Association of Avian Pathologist (AAAP), USA
American Society for Virology (ASV), USA
Formal Philips Institute Safety Committee, VCU, USA
Dhaka University Microbiology Alumni Association Inc., USA
International Society of Bangladesh-Affiliated Microbiologists (ISBM)

PUBLICATIONS (PEER REVIEWED)

1. **Saiada F**, Zegpi R, Joiner KS, Toro Hand van Santen VL. **2026** (Under revision) Spike binding and replication of kidney-cell-adapted infectious bronchitis virus in chickens
2. Sugiokto FG, **Saiada F**, Zhang K, and Li R. **2023**. SUMOylation of the m6A reader YTHDF2 by PIAS1 promotes viral RNA decay to restrict EBV replication. **mBio**, 15(2):e0316823.
3. **Saiada F**, Zhang K and Li R. **2021**. PIAS1 potentiates the anti-EBV activity of SAMHD1 through SUMOylation. **Cell Biosci**. 11: 127.
4. **Saiada F**, Gallardo RA, Shivaprasad HL, Corsiglia C, and van Santen. **2020**. Intestinal tropism of an infectious bronchitis virus isolate not explained by spike protein binding specificity. **Avian Dis**. 64:2335
5. **Saiada F**, Eldemery FE, Zegpi RA, Gulley SL, Mishra A, van Santen VL and Toro H. **2019**. Early vaccination of chickens induces suboptimal immunity against infectious bronchitis virus. **Avian Dis**. 63:38-47
6. Afrad MH, Hassan Z, **Saiada F**, Moni S, Barua S, Das SK, Faruque ASG, Azim T, Rahman M. **2013**. Changing profile of rotavirus genotypes in Bangladesh, 2006-2012. **BMC Infect Dis** 13:3203-3226
7. **Saiada F**, Rahman HN, Moni S, Karim MM, Pourkarim MR, Azim T, Rahman M. **2011**. Clinical presentation and molecular characterization of group B rotaviruses in diarrhoea patients in Bangladesh. **J Med Microbiol** 60:529-536
8. Rahman M, Alamgir ASM, **Saiada F**, Hassan Z, Faruque ASG, Cravioto A, Azim T, Mahmudur R. **2011**. Co-circulation of G1, G2 and G9 rotaviruses in hospitalized patients in Bangladesh during 2006-2009. **Hum Vaccin** 7 (9):929-933
9. Rahman M, Matthijnssens J, **Saiada F**, Hassan Z, Heylen E, Azim T, Van Ranst M. **2010**. Complete genomic analysis of a Bangladeshi G1P[8] rotavirus strain detected in 2003 reveals a close evolutionary relationship with contemporary human Wa-like strains. **Infect Genet Evol** 10 (6):746-754
10. Rahman M, Sultana R, Ahmed G, Nahar S, Hassan ZM, **Saiada F**, Podder G, Faruque ASG, Siddique AK, Sack DA, Matthijnssens J, Van Ranst M, and Azim T. **2007**. Prevalence of G2P[4] and G12P[6] Rotavirus, Bangladesh. **Emerg Infect Dis** 13:18-24
11. Rahman M, Hassan ZM, Zafrul H, **Saiada F**, Banik S, Faruque ASG, Thomas Delbeke T, Matthijnssen, J, Van Ranst M, and Azim T. **2007**. Sequence analysis and evolution of group B rotaviruses. **Virus Res** 125(2):219-225.

ABSTRACT

1. Raihan MA, Bhattarai R and **Saiada F**. Replication kinetics and innate immune activation following avian reovirus infection. 75th Western Poultry Disease Conference, March 16-18, **2026**, San Diego, CA, USA.
2. van Santen VL, **Saiada F**, Joiner KS, Toro H. **2016**. Embryonic kidney cell-adapted infectious bronchitis virus spike protein shows reduced host cell binding spectrum. Proceedings of the 9th Int. Symp. Avian Corona & Pneumoviruses & Complicating Pathogens, Leusden, The Netherlands, 111-5.

SELECTED ORAL PRESENTATIONS

1. Raihan MA and **Saiada F**. Temporal shifts in antiviral, inflammatory, and regulatory responses following avian reovirus S1133 infection. AAAP (American Association of Avian Pathologists) 69th Annual Meeting, Jul 28-30, **2026**, Orlando, FL, USA.
2. Haque, M.S. & **Saiada F**. Molecular and pathological insights into Fowl adenovirus-E (FAdV-8b) in southeastern US Poultry. International Poultry Scientific Forum (IPSF), Jan 26-27, **2026**. Atlanta, GA, USA.
3. **Saiada F**, Joiner KS and van Santen VL. Binding ability of the hemagglutinin-neuraminidase protein as a predictor of pathogenicity of Newcastle disease virus isolates. AAAP (American Association of Avian Pathologists) 67th Annual Meeting, Jul 9-11, **2024**, St. Louis, MO, USA.
4. **Saiada F**, Joiner KS and van Santen VL. Binding of the hemagglutinin-neuraminidase protein to chicken tissues to predict the pathogenic potential for chickens of Newcastle disease virus isolates. 2024 International Avian Respiratory Disease Conference, May 14-17, **2024**, Athens, GA, USA.
5. Chaudhary D, **Saiada F**, Pedroza S, Pietruska A, Kyriakis C, Lee C and Hauck RM. Genetic analysis of low pathogenic Newcastle disease virus isolated from wild birds during adaptation to chicken embryos. WPDC (Western Poultry Disease Conference), Apr 15-17, **2024**, Salt Lake City, UT, USA.
6. **Saiada F**, Zhang K and Li R. PIAS1 potentiates the anti-viral activity of SAMHD1 through SUMOylation. ASV (American Society of Virology) 40th Annual Meeting, Jul 19- 23, **2021**, Virtual.
7. **Saiada F**, Zhang K and Li R. PIAS1 potentiates the anti-viral activity of SAMHD1 through SUMOylation. 45th Annual International Herpesvirus Workshop, Aug 2-6, 2021, Virtual.
8. **Saiada F**, Eldemery FE, Zegpi RA, Gulley SL, Mishra A, van Santen VL and Toro H. Early vaccination of chickens induces suboptimal immunity to infectious bronchitis virus. International Avian Respiratory Disease Conference **2018**, Athens, GA, USA.
9. **Saiada F**, Zegpi RA, Toro H and van Santen VL. Replication of chicken embryonic kidney cell culture adapted Ark DPI infectious bronchitis virus (IBV) vaccine strain in chickens. International Poultry Scientific Forum, IPPE **2017**, Atlanta, GA, USA.

POSTER PRESENTATIONS

1. Chaudhary D, Pietruska A, Suarez D, Lee CW, Saiada F, Hauck R. Genetic changes of wild waterfowl-origin low pathogenic Newcastle disease virus in commercial chicken embryos. AAAP (American Association of Avian Pathologists) 68th Annual Meeting, Jul 29-31, 2025, Portland, OR.
2. Chaudhary D, Pietruska A, **Saiada F**, Lee C, Suarez D, Hauck RM. Comparative Transcriptome Analysis of Chicken Embryos after Infection with Low Pathogenic Newcastle Disease Virus (LoNDV) from Wild Birds. AAAP (American Association of Avian Pathologists) 67th Annual Meeting, Jul 9-Jul 11, 2024, St. Louis, MO, USA.
3. **Saiada F**, Zhang K & Li R. 45th Annual International Herpesvirus Workshop, august 2-6, 2021, Virtual. PIAS1 potentiates the anti-EBV activity of SAMHD1 through SUMOylation.
4. **Saiada F**, van Santen VL, Shivaprasad HL, Corsiglia C, Gallardo RA. Intestinal tropism of an IBV isolate is not explained by spike protein binding Specificity. The American Association of Avian Pathologists (AAAP) Annual meeting 2019, Washington D.C., USA.