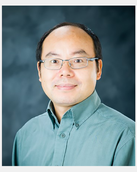
XIU-FENG "HENRY" WAN, PHD



Molecular Microbiology and Immunology

Department of Veterinary Pathobiology

Electrical Engineering and Computer Science

Professor
Curators' Distinguished Professor

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Profile

^ Back to top

Dr. Wan's long-term career goals are to understand how zoonotic pathogens (especially influenza A viruses) emerge and re-emerge at the animal-human interface and to improve the effectiveness of the influenza vaccines in disease prevention and control by developing and applying systems biology based translational approaches. Translational systems biology is an integrated, multi-scale, evidence-based approach that combines laboratory, clinical and computational methods with an explicit goal of developing effective means of control of biological processes for improving human health and rapid clinical application.

SYSTEMSBIO LAB

Academic Information

^ Back to top

Professor
Curators' Distinguished Professor

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Research Interests

- Influenza
- Systems Biology
- Computational Biology
- Virology
- Immune Response to Pathogens
- Molecular Evolution
- Vaccine
- Animal model
- Genomics, Proteomics, and Glycomics

Areas of Expertise

- Influenza
- Virology
- Microbiology
- Vaccine
- Evolutionary Biology
- Systems Biology
- Computational Biology and Machine Learning

Education & Training

^ Back to top

2005 Postdoctoral Fellow
University of Missouri, Columbia, MO

2003 Postdoctoral Fellow
Oak Ridge National University, Oak Ridge, TN

2002 MS
Mississippi State University, Mississippi State, MS

2002 PhD
Mississippi State University, Mississippi State, MS

1998 MS
South China Agricultural University, Guangzhou, Guangdong

1995 BS
Jiangxi Agricultural University, Nanchang, Jiangxi

Awards & Honors

^ Back to top

- 2017 Ralph E. Powe Research Excellence Award, Mississippi State University
- 2016 Distinguished Seminar Speaker, Walter Reed Army Institute of Research
- 2014 Pegasus Faculty Research Awards, College of Vet Med, Mississippi State University
- 2013 Superior Faculty Award, Mississippi State University
- 2013 Faculty Leadership Award, Mississippi State University
- 2012 Pfizer Award for Veterinary Research Excellence, Mississippi State University

In the News

^ Back to top

Dr. Wan earns $19 million grant to study influenza spread

Mizzou's core facilities accelerate research innovation

Mizzou researchers advancing better flu treatments

Study reveals new way to strengthen immunity against the flu

New COVID-19 Research Traces Variant Spread

Wan Elected to American Institute for Medical and Biological Engineering ...

Wan recognized with Curators' Distinguished Professor award

COVID, Flu Co-Infections Common in 2021–22 Season

Personalizing the fight against flu

Publications

^ Back to top

XIU-FENG "HENRY" WAN, PHD'S BIBLIOGRAPHY

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