Duan Ming

Professor
Email：duan_ming@jlu.edu.cn

SHORT BIOGRAPHY:

Dr. Ming Duan is the Professor of Institute of Zoonosis, College of Veterinary Medicine, at the Jilin University. He is credited in unraveling the roles of noncoding RNA in the host-virus interactions (mainly focusing on zoonotic viruses, such as influenza virus and rabies virus). These discoveries have contributed to illuminate the viral pathogenesis and develop antiviral therapeutics. Dr. Duan obtained a Bachelor’ s degree from the Ocean University of China, his M.D. from the Quartermaster University of PLA and his PhD in Biochemistry and Molecular Biology from Academy of Military Medical Sciences. He has published over 30 peer-reviewed publications (IF=80) on influential SCI journals such as Blood, J Neurosci, PLoS One, FASEB J etc.

RESEARCH INTERESTS：

- Diverse non-coding RNAs (ncRNAs) play critically important roles in viral infection. Viruses can use diverse ncRNAs to manipulate both cellular and viral gene expression to establish a host environment conducive to the completion of the viral life cycle. Many host cellular ncRNAs can also directly or indirectly influence viral replication and even target virus genomes. The major focus for our research is on the regulatory roles played by host long noncoding RNAs (lncRNAs) and circular RNAs (circRNAs) in the infection of zoonotic viruses and host innate immune responses. The work bridges ncRNAs, virology and immunology. The major goal is to clarify molecular mechanism of viral disease and develop antiviral therapy.

SELECTED PUBLICATIONS：

- Wang Q, Zhang D, Feng W, Guo Y, Sun X, Zhang M, Guan Z, Duan M#. Long noncoding RNA TSPOAP1 antisense RNA 1 negatively modulates type I IFN signaling to facilitate influenza A virus replication. J Med Virol. 2019; Epub ahead of print.
- Dong C, Sun X, Guan Z, Zhang M, Duan M#. Modulation of influenza A virus replication by microRNA-9 through targeting MCPIP1. J Med Virol. 2017;89(1):41-48..
- Sun X, Shi N, Li Y, Dong C, Zhang M, Guan Z, Duan M. Quantitative Proteome Profiling of Street Rabies Virus-Infected Mouse Hippocampal Synaptosomes. Curr Microbiol. 2016 ;73(3):301-311.
- Zhang X, Dong C, Sun X, Li Z, Zhang M, Guan Z, Duan M#. Induction of the cellular miR-29c by influenza virus inhibits the innate immune response through protection of A20 mRNA. Biochem Biophys Res Commun. 2014;450(1):755-61.
- Yao H*, Duan M*, Buch S. Cocaine-mediated induction of platelet-derived growth factor: implication for increased vascular permeability. Blood. 2011;117(8):2538-47.