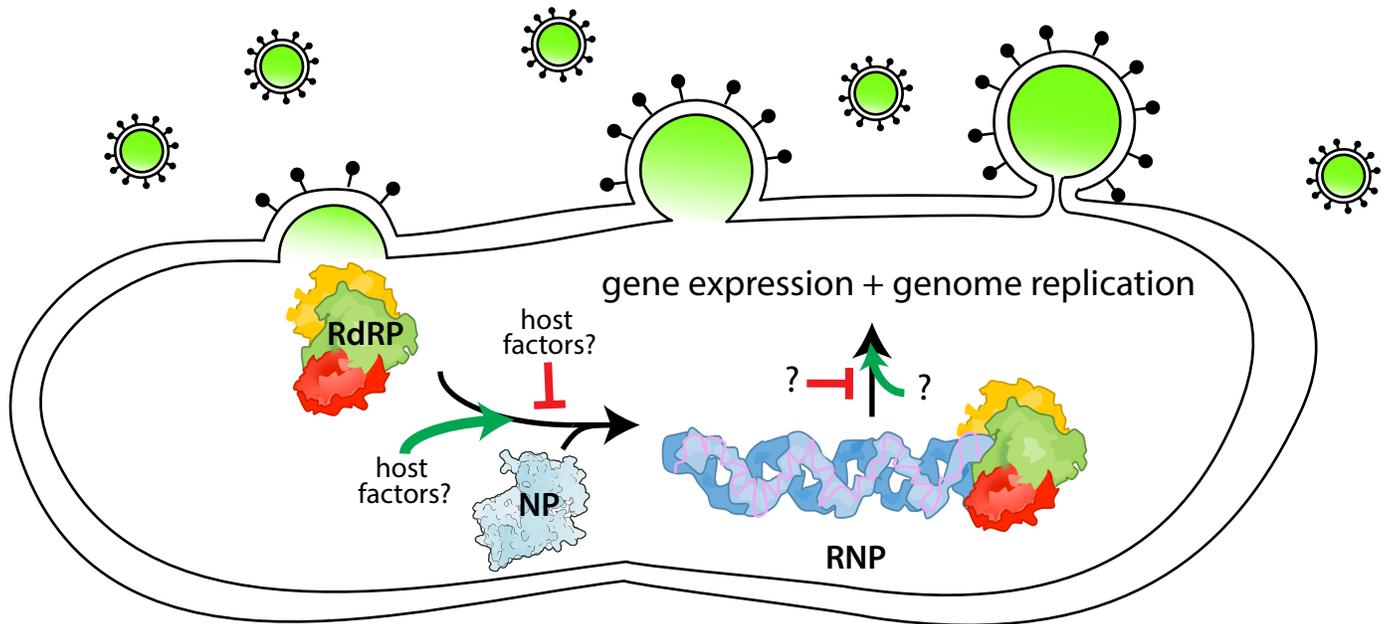


Postdoctoral Position Studying Influenza Virus in the Mehle Lab



Funded postdoc position studying virus:host interactions and replication dynamics in the Mehle Lab

The Mehle lab at the University of Wisconsin Madison is looking for a highly motivated postdoc to study the influenza viral replication machinery and the host factors that regulate expression of viral genes and replication of the viral genome. We seek a new lab member to maintain our diverse and supportive environment.

Influenza virus exploits and subverts host processes while at the same time evading cellular antiviral responses. The balance between these pro- and antiviral forces influences the outcome of a viral infection and pathogenicity to the host. The Mehle Lab studies this battle with a focus on the viral replication machinery. We have four major themes that address the gaps in our knowledge about the virus:host interface –

- 1) define how influenza virus engages, and even exploits, antiviral responses to support viral replication
- 2) determine how RNA:protein interactions impact virus replication
- 3) explore the role of sensing self nucleic acids as part of the innate antiviral immune response
- 3) investigate the population dynamics of influenza virus as it replicates and moves within and between infected hosts (collaboration with the Friedrich lab)

We couple classic molecular virology with the newest approaches in genetic screening, genomics, and proteomics (e.g. we currently dissect influenza virus replication using multiple CRISPR-based techniques, CLIP-Seq, RiboSeq, quantitative proteomics, bioinformatics, and rely on the creativity of lab members to bring new techniques and ideas to the project). The projects are currently funded by 2 R01s and a BWF PATH fellowship, in addition to NSF, NIH and LSRF grants obtained by lab members.

Successful applicants will be scientifically ambitious with a strong record of published research success and a PhD or equivalent. Experience with influenza virus is not required, although a strong background in molecular biology, high-throughput sequencing and coding/bioinformatics would be advantageous. We believe a diverse, inclusive and equitable lab is the best way to do science, and our actions try to match this belief. Applications are particularly welcome from those who can contribute to such an environment.

UW-Madison is a leading research institute with over \$1.0 billion in research activity annually. Madison is well known for its large virology community, has an active postdoc community and embraces mentoring and career development. In addition, the town of Madison is frequently atop the list as Livability's "Best City in America," with great access to outdoor activities, music, culture, politics, food and craft beer.

Send a CV and cover letter explaining your prior research and specific interests in the lab to Andrew Mehle (amehle@wisc.edu). Reach out to @MehleLab or get more information at mehlelab.com.