



## CryoEM Current Practices Webinar

### *Cryo-EM studies of a malleable oligomeric SF3 helicase*



### ***Rahul Jaiswal, Ph.D***

**Instructor**

**Virginia Commonwealth University School of Medicine**

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The adeno-associated virus (AAV) non-structural Rep proteins catalyze all the DNA transactions required for virus viability including, DNA replication, transcription regulation, genome packaging, and during a latent phase, site-specific integration. Rep proteins contain two multifunctional domains: An Origin Binding Domain (OBD) and a SF3 helicase domain (HD). Studies have shown that Rep proteins have a dynamic oligomeric behavior where the nature of the DNA substrate molecule modulates its oligomeric state. Thus, Rep68 can form structures ranging from octamers, heptamers and hexamer rings. Assembly on double-stranded DNA substrates leads to formation of a heptameric ring complex that provides insights into the DNA melting mechanism.

All are welcome to attend. Registration is at no-cost, but sign-up is required:  
[https://us02web.zoom.us/webinar/register/WN\\_oWLDjlo-RuaZ6S40Ux9KUQ](https://us02web.zoom.us/webinar/register/WN_oWLDjlo-RuaZ6S40Ux9KUQ)

This webinar series is jointly hosted by the NIH Transformative High Resolution CryoEM Program Service Centers: the National Center for CryoEM Access and Training (NCCAT), the Pacific Northwest Center for CryoEM (PNCC), and the Stanford-SLAC CryoEM Center (S<sup>2</sup>C<sup>2</sup>) who provide no-cost access to cryoEM instrumentation and training. In this monthly series, we will highlight cryoEM methods and use the Q&A session after the seminar to stimulate discussion of best practices and interesting challenges that will be helpful to researchers new to the field. Representatives from all three service centers will also be on hand to answer questions about the cryoEM resources available to biomedical researchers and how to access them.