



Discovery Science  
Emerging Scholars Lecture

## “Viral Hijacking of Host Molecular Motors to Promote Nuclear Entry”



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During entry, most DNA viruses must navigate the crowded cellular environment to reach the nucleus where transcription and replication of the viral genome occur. How polyomavirus (PyV), a small DNA tumor virus, accomplishes this feat is not well-understood. We reported that cytoplasmic dynein motor activity is required to disassemble PyV once in the cytosol and to target the disassembled virus to the nucleus. However, the precise mechanism underlying these dynein-dependent steps remain unclear. Investigating the role of dynein cargo adaptor proteins in this process, we have discovered an unexpected and novel function of the bicaudal-D adaptors in virus infection.

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Zoom

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