

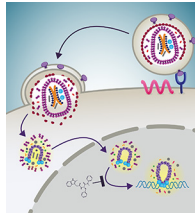


AMERICAN
SOCIETY FOR
MICROBIOLOGY

Journal of
Virology®

CONTENTS • JUNE 2019 • VOLUME 93, NO. 12

COVER IMAGE



Cover photograph: Human immunodeficiency virus type 1 (HIV-1) packages its RNA genome in a conical shell of the viral capsid protein (purple dumbbells). The capsid protein is an attractive therapeutic target because it plays indispensable roles in the early stages of viral replication, including reverse transcription of viral genomic RNA into a double-stranded DNA copy and nuclear entry. Utilizing the capsid-targeting small-molecule inhibitor PF74 (chemical structure shown) as a probe, Balasubramaniam et al. reported a direct link between the capsid protein and HIV-1 DNA integration into the target chromosome. The viral preintegration complex (PIC) containing the viral DNA is depicted as an ensemble of structures enclosed in a yellow halo. (See related article in March 2019, vol. 93, no. 6, e01741-18.) (Copyright © 2019 American Society for Microbiology. All Rights Reserved.)

SPOTLIGHT

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