



# Genic HIV-1 integration targeting: LEDGF/p75-dependence on mRNA splicing, H3K36me3-enrichment, and Pol II elongation rate

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Register in advance for this webinar. Please click [here](#) to register for the live webinar. After registering, you will receive a confirmation email containing information about joining the webinar. (Registration is necessary to attend).

<b>Wednesday, June 24, 2020 Via Zoom Webinar</b>	
<b>Time</b>	<b>Activity/Presentation</b>
8:30 – 8:45 am PST	Welcome, HIVE Center Renewal Discussions
8:45 – 9:00	Lalit Deshmukh: Biophysical characterization of retroviral replication cycle
9:00 – 9:15	Jesse Dixon: Investigating changes in 3D genome organization in response to reversal of viral latency
9:15 – 9:30	Andrew Routh: RNA recombination and Defective-RNAs of coronaviruses
9:30 – 9:45	Break
9:45 – 10:00	Alice Duchon: Properties of Gag Important for Packaging the HIV-1 RNA Genome (NIH-NCI/Hu)
10:00 – 10:15	Samantha Sarni: HIV-1 Gag specifically dimerizes on the viral RNA packaging signal (OSU/Musier-Forsyth)
10:15 – 10:30	Banhi Biswas: p6 Domain of HIV-1 Gag Does Not Contribute to RNA Packaging (NIH-NCI/Rein)
10:30 – 10:45	Shentian Zhuang: Identify Host Factors Involved in Gag Trafficking and Assembly by Using Split-APEX2 System Coupled with Quantitative MS (Proj 2/Torbett)
10:45 – 11:00	Break
11:00 - 11:15	Ray Pauszek: Single-Molecule Studies of Gag Assembly (Proj 2/Millar)
11:15 – 11:30	John Hammond: Studying the early lipid-binding events in Gag assembly using Single-Molecule Microscopy (Proj2/Williamson)
11:30 – 11:45	Ryan Slack: Characterization of HIV-1 RT / APOBEC3G (A3G) interactions by structural, biophysical and biochemical approaches (Proj 3/Sarafianos)
11:45 – 12:00	Parmit Singh: Genic HIV-1 Integration Targeting: LEDGF/P75-Dependence on Mrna Splicing, H3k36me3-Enrichment, and Pol LI Elongation Rate (Proj 4/Engelman)
12:00 - 12:45	Break
12:45 – 1:00	Ioulia Rouzina: Theoretical Analysis of Reverse Transcription-Driven Uncoating of Mature HIV-1 Capsids (OSU/Musier-Forsyth)
1:00 – 1:15	Stephanie Bester: The Structural Basis for Ultra-Potent Antiviral Activity of Lenacapavir (Proj 1/Kvaratskhelia)
1:15 – 1:30	Guochao Wei: The Primary Antiviral Mechanism of Action of the HIV-1 Capsid Inhibitor Lenacapavir (Proj 1/Kvaratskhelia)
1:30 – 1:45	Giulia Bianco: AutoDock Reactive Docking: HTVS of Targeted Covalent Inhibitors for In Silico proteomics (Proj 6/Olson)
1:45 – 2:00	Break

2:00 – 2:15	Qinfang Sun: In silico screening of ligands targeting CA pocket 1 using docking together with free energy methods (part of Proj 6)
2:15 – 2:30	Valentine Courouble: Core 2 HDX and NMR Support of HIVE Program (Core 2/Griffin)
2:30 – 2:45	Shiyi Wang: A High-Quality Long-Range Sequencing Methodology that Allows the Identification of Epistatic Interactions within Individual Viruses (Proj 5/Torbett)
2:45 – 3:00	Avik Biswas: Evolution of antiviral resistance and their biological and biophysical implications (Proj 5/Levy)
3:00 – 3:15	Break
3:15 - 3:30	Konstantin Leskov: Innate Immune Response to HIV Infection: Single-Cell Transcriptome Analysis (CWRU/Karn)
3:30 – 3:45	Ruchi Yadav: Experimental strategies for probing the dimerization propensity of PR in HIV polyproteins and initial characterization of the SARS-CoV-2 nsp7-8 polyprotein characterization (Core 3/Arnold)