

# Astrocytes as an HIV CNS Reservoir

Satellite meeting in conjunction with 15th International Symposium on NeuroVirology, 2018 Conference on HIV in the Central Nervous System, and 24th Scientific Conference of the Society on NeuroImmune Pharmacology  
Swissotel Chicago, Chicago, IL, USA | April 10<sup>th</sup>, 2018

TIME	SPEAKER	PRESENTATION TITLE
<b>Setting the stage</b>		
12:40 PM-12:45 PM	Dianne Rausch (NIMH)	Opening Remarks
12:45 PM-12:50 PM	Jeymohan Joseph (NIMH)	Meeting Goals
12:50 PM-1:00 PM	Lena Al-Harhi (Rush University)	Framing the conversation around the role of astrocytes in HIV reservoirs/latency: Shifting paradigms, challenges, and outstanding questions
<b>HIV entry into astrocytes</b> Session Chairs: Norman Haughey (Johns Hopkins University) and Shilpa Buch (University of Nebraska)		
1:00 PM-1:15 PM	Gregory Melikian (Emory University)	Real-time imaging of HIV-1 entry into cells.
1:15 PM-1:30 PM	Jonathan Geiger (University of North Dakota)	HIV-1 entry into astrocytes: Role of endocytosis and endolysosomes
1:30 PM-1:45 PM	Johnny He (University of North Texas Health Science Center)	HIV-1 infection, Tat expression, and latency in astrocytes
1:45 PM-2:00 PM	Avindra Nath (NINDS)	Cell-to cell contact facilitates HIV transmission from lymphocytes to astrocytes
2:00 PM-2:15 PM	Quentin J. Sattentau (University of Oxford)	Astrocytes resist HIV-1 fusion but engulf infected macrophage material
<b>Astrocyte infection with SIV</b>		
2:15 PM-2:30 PM	Janice Clements (Johns Hopkins School of Medicine)	CD4-independent entry and replication of simian immunodeficiency virus in primary rhesus macaque astrocytes
<b>Break (2:30 PM – 2:45 PM)</b>		
<b>Regulation of HIV latency, replication and therapeutic approaches in astrocytes</b> Session Chairs: Michal Toborek (University of Miami) and Fatah Kashanchi (George Mason University)		
2:45 PM-3:00 PM	Srinivas Narsipura (Rush University)	Epigenetic regulation of HIV-1 latency in astrocytes
3:00 PM-3:15 PM	Michel Tremblay (Université Laval)	Contrasting effect of the latency-reversing agents bryostatin-1 and JQ1 on astrocyte-mediated neuroinflammation and brain neutrophil invasion

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3:15 PM- 3:30 PM	Corine Barat (Université Laval)	Astrocytes sustain long-term productive HIV-1 infection without establishment of reactivatable viral latency
3:30 PM- 3:45 PM	Eliseo Eugenin (Rutgers University)	HIV infection of astrocytes: infectivity, silencing, and reactivation
3:45 PM- 4:00 PM	Lena Al-Harhi (Rush University)	Modelling HIV infection in astrocytes in-vivo: A dynamic interaction between HIV in the CNS and peripheral organs
4:00 PM- 4:15 PM	Ruth Brack-Werner (Helmholtz Zentrum München)	Synthetic AAV/CRISPR vectors for blocking HIV-1 expression in persistently infected astrocytes
Panel Discussion (4:15 PM- 5:15 PM) Avindra Nath, Lena Al-Harhi, Janice Clements		