

1154-34-1007

Weston Roda and **Michael Li*** (myli@ualberta.ca), Mathematical and Statistical Sciences,
University of Alberta, Edmonton, Alberta T6G 2G1, Canada, and **Christopher Power**.

Mathematical Modeling of HIV/SIV Infection in Brain. Preliminary report.

Understanding HIV-1 replication and latency in different reservoirs is an ongoing challenge in the care of patients with HIV/AIDS. We use mathematical models to quantify the progression and predict the viral dynamics of HIV-1 and SIV infection within the brain during effective combination antiretroviral therapy (cART), and discuss the effects of the "shock-and-kill" strategy for eliminating latent reservoirs. (Received September 12, 2019)