

On June 15, 2021, the Sex and Gender in Health and Disease (SGHD) Scientific Interest Group (SIG) will host a virtual talk from Alberto Bosque, Ph.D., M.B.A. Assistant Professor, Department of Microbiology, Immunology & Tropical Medicine. The George Washington University.

Using primary cell model systems to evaluate the role of biological sex in HIV latency and cure strategies

June 15, 2021 //3:00 to 4:00 p.m. ET// Zoom information below



In order to develop successful HIV cure interventions, the basic mechanisms underlying latency establishment and reversal must be known. Mechanistic studies are difficult to carry out in samples from people living with HIV (PLWH) due to the availability of sample and the scarcity of these cells in vivo; thus, cell lines and primary cell models serve an important purpose in understanding the biology of HIV-1 latency. Dr. Bosque group has extensively characterized a primary model of latency that uses CD4T cells isolated from HIV-negative donors ([Bosque and Planelles, Blood, 2009](#); [Macedo et al, AIDS Res Hum Retroviruses, 2018](#); [Sarabia et al, Journal of Virology, 2021](#)). This model has been extensively used to discover and evaluate latency-reversing agents (LRAs); to perform mechanistic studies examining pathways involved in the establishment and maintenance of latency; and has several similitudes when compared with the reservoir in PLWH including similar integration patterns, clonal expansion and blocks in HIV-1 splicing. Furthermore, this model allow Dr. Bosque team to investigate the role of biological sex and sex hormones in HIV latency. As such, this model could be used to further understand the mechanisms involved in HIV persistence in CD4T cells as well as the pre-clinical evaluation of HIV cure strategies.

Recordings of previous SGHD SIG Webinars available here:

- April 20, 2021 virtual talk from Rashmi Sinha, Ph.D., Senior investigator, Metabolic Epidemiology Branch, Division of Cancer Epidemiology & Genetics, National Cancer Institute, NIH. <https://youtu.be/W6vhXr9p-AQ>
- February 16, 2021 virtual talk from Jenny A. Higgins, Ph.D., M.P.H., Professor of Obstetrics and Gynecology and Gender and Women's Studies at the University of Wisconsin-Madison. <https://youtu.be/wLT3em5-EeE>
- November 17, 2020 virtual talk from Melissa Friesen, PH.D. Senior Investigator, Division of Cancer Epidemiology & Genetics, Occupational and Environmental Epidemiology, NCI. <https://youtu.be/d9prBRzyoGw>

At the end of the webinar, we would like to ask you to participate in the feedback survey: <https://www.surveymonkey.com/r/MCTXMRM> This voluntary, anonymous Survey Monkey provides you with an opportunity to make suggestions for future topics or speakers, and we appreciate your time to complete it.

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