

**Satellite**

Sunday, October 6, 2024, 10:30 - 12:00

Link:

<https://programme2024.hivr4p.org/>

Session Details:

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Topic:

A compelling armour in the diverse toolbox: The promise of broadly neutralizing antibodies as HIV prevention options in times of globally evolving viral variants

The enormous diversity of the globally circulating variants of HIV-1 has posed a significant challenge towards developing effective prevention modality. In the absence of a preventive vaccine, highly active antiretroviral (ARV) based therapy has been the only treatment option that is available for people living with HIV/AIDS. Although ARVs have been very effective, however in concurrence with the periodic evolution of the HIV globally, drug resistance and treatment failure has become a major concern. Broadly neutralizing monoclonal antibodies (bnAb) have shown as a promising approach towards prevention of viral infection and are being considered as an alternate for prevention from HIV acquisition in the absence of an effective vaccine. Recent findings from the Phase 2B HVTN 703/HPTN 081 Antibody-Mediated-Prevention-Trial (AMP clinical) have indicated potentially transformative bnAb mediated prophylaxis strategies.

BRIC-Translational Health Science and Technology Institute (THSTI), India along with the THSTI-IAVI Antibody Translational Research Program is organizing a satellite session where leading scientists from Africa, India and USA will present some of the key observation and advancements made in this field highlighting some of the promising approaches for bnAb mediated HIV-1 prevention. The session will cover insights on (a) suitability of lead bnAbs against globally circulating contemporary HIV with particular reference to clade C, (b) effectivity of bnAbs for infant prophylaxis particular in high disease burden areas, their clinical impact and cost effectiveness, (c) advances in germline targeting approaches in eliciting broadly neutralizing antibodies and (d) modalities to enhance antibody effector function.

Organizing institute:

BRIC-Translational Health Science and Technology Institute (THSTI), India

Organizers:

Dr Ganesan Karthikeyan (THSTI, India)

Dr Jayanta Bhattacharya (THSTI, India)

Program:

Opening Remarks and Introductions

Speaker: Georgia Tomaras (Duke University, United States)

Presentations:

Broadly neutralizing antibody coverage against HIV – lessons from the AMP trials

Speaker: Penny Moore (NICD, South Africa)

bnAbs for Postnatal Prophylaxis in Infants

Speaker: Vincent Muturi Kioi (IAVI, Kenya)

Eliciting bnAbs through germline targeting – a promising approach in the HIV vaccine story

Speaker: Torben Schiffner (The Scripps Research, United States)

Fc-mediated Functions by Broadly Neutralizing Antibody Against Recently Circulating HIV-1 Envelopes: Needs for Increased Potency and Breadth

Speaker: Guido Ferrari (Duke University, United States)

Antigenic landscape of circulating HIV in defining selection of bnAbs for optimal region-specific neutralization coverage

Speaker: Jayanta Bhattacharya (THSTI, India)