

## SCIENTIST PROFILE

Name: Dr. Ashwini Shete  
Designation: Scientist D  
Department: Immunology and serology  
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Educational Qualification:

Degree	Year	Institute
MBBS	1999	LTMMC & LTMGH, Sion, Mumbai
MD (Microbiology)	2002	LTMMC & LTMGH, Sion, Mumbai

### **Awards & Honors:**

- Received Global Health Travel Award for attending Keystone symposium of HIV persistence in Boston in 2015
- Received Cytometry quiz- Awtar Krishnan prize in 12<sup>th</sup> Indo-US Cytometry Workshop and has been awarded free membership for ISAC (The International Society for Advancement of Cytometry)
- Manuscript in viral Immunology selected for prize under BD Biosciences Loyalty Program

### **Research Experience:**

Position	Institution Place	Duration
Scientist D	National AIDS Research Institute, Pune	Sep 2016 till date
Scientist C	National AIDS Research Institute, Pune	Sep 2012 to Sep 2016
Scientist B	National AIDS Research Institute, Pune	March 2007 to Sep 2012
Research Officer	National AIDS Research Institute, Pune	Aug 2003 to March 2007
Lecturer	K J Sommaiya Medical College, Mumbai	Dec 2002 to July 2003

**Area of Interest:** Immunological aspects of HIV and TB infection  
Anti HIV vaccine Development Research  
HIV reservoirs and eradication of latent HIV infection  
Biomarker testing

### **Grant Support & Projects:**

- Longitudinal Aging Study in India (Government of India and NIH)
- Validation of Dried Blood spot (DBS) based Biomarkers (intramural funding)
- The impact of Microfinance on health: Evidence from India (IFMR)
- A case control study to understand determinants and biomarkers associated with immunologic non response [INR] as well as to assess quality of adaptive and innate immune responses in patients with INR in Pune (NACO)

- Identification of HIV modulated cell signaling pathways in context with persistence of HIV after activation (DBT-RGYI)
- Phenotypic and functional characterization of active and latent tuberculosis (intramural funding)
- Activation of productive HIV infection by antigen specific stimulation of memory CD4 cells in HIV infected patients (intramural funding)
- Study for comparison of phenotypic characteristics of fresh and frozen PBMCs (intramural funding)

**Number of Publications:** 20

1. Higher expression of human telomerase reverse transcriptase in productively-infected CD4 cells possibly indicates a mechanism for persistence of the virus in HIV infection. Poonam Suryawanshi, Sheela Godbole, Jyoti Pawar, Madhuri Thakar, Ashwini Shete. Accepted for publication in Microbiology and Immunology. Article DOI: 10.1111/1348-0421.12585
2. Effect of combination antiretroviral therapy on HIV-1-specific antibody-dependent cellular cytotoxicity responses in subtype B- and subtype C-infected cohorts. Madhavi V, Kulkarni A, **Shete A**, Lee WS, Mclean MR, Kristensen AB, Ghate M, Wines BD, Hogarth PM, Parsons MS, Kelleher A, Cooper DA, Amin J, Emery S, Thakar M, Kent SJ. J Acquir Immune Defic Syndr. 2017 Mar 23. doi: 10.1097
3. Indian Long Term Non Progressors show broad ADCC responses with preferential recognition of V3 region of Envelope and a region from Tat protein. Archana Kulkarni, Swarali Kurle, **Ashwini Shete**, Manisha Ghate, Sheela Godbole, Vijaya Madhavi, Stephen Kent, Ramesh Paranjape, Madhuri Thakar. Frontiers in Immunology 2017: 8(14) .
4. Development of IFN- $\gamma$  secretory ELISPOT based assay for screening of ADCC responses. Ashwini Shete, Poonam Suryawanshi, Chetan Chavan, Archana Kulkarni, Sheela Godbole, Manisha Ghate and Madhuri Thakar. Journal of Immunological methods. 2017;441:49-55
5. HIV infected CD4+ T cells use T-bet dependent pathway for production of IL-10 upon antigen recognition. Ashwini Shete, Poonam Suryawanshi, Sheela Godbole, Jyoti Pawar, Ramesh Paranjape and Madhuri Thakar. Scandinavian Journal of Immunology. 2016:83(4):288-96
6. Duplicate analysis method: a cheaper alternative to commercial IQC materials in limited resource settings for monitoring CD4 testing. Ashwini Shete, Dharmesh P Singh, Bharati Mahajan, Amol Kokare, Ramesh Paranjape, and Madhuri Thakar. AIDS Res Ther. 2015; 12: 25
7. Clinical trials with anti- latency agents. A Shete. NARI Bulletin Volume 5, Issue 3&4, October 2014: 11-13.
8. Pseudomembranous type of oral candidiasis is associated with decreased salivary flow rate and secretory immunoglobulin A levels. Neeta Bagul, Bela Mahajan, Mamata Reddy, Ashwini Shete, Arun Risbud and Arati Mane. Accepted for publication in Mycopathologia
9. Is prime boost strategy a promising approach in HIV vaccine development? **Ashwini Shete**, Madhuri Thakar, S.M. Mehendale and R.S. Paranjape. J AIDS Clin Res 2014:5:293.
10. Current Trends in HIV/AIDS. **Ashwini Shete**. J HIV AIDS Infect Dis. 2013: 1: 1-2.
11. Is Cure of HIV Infection in Sight? **Ashwini Shete** and R.S. Paranjape IJMR 2013:138: 824-828.
12. Safety and immunogenicity of DNA and MVA HIV-1 subtype C vaccine prime-boost regimens: A phase I randomised trial in HIV-uninfected Indian volunteers. Sanjay Mehendale, Madhuri Thakar, Seema Sahay, Makesh Kumar, **Ashwini Shete**, Pattabiraman Sathyamurthi, Amita Verma, Swarali Kurle, Aparna Shrotri, Jill Gilmour, Rajat Goyal, Len Dally, Eddy Sayeed, Devika Zachariah, James

- Ackland, Sonali Kochhar , Josephine H Cox, Jean-Louis Excler, Vasanthapuram Kumaraswami, Ramesh Paranjape, Vadakkuppatu Devasenapathi Ramanathan. PLoS ONE. 2013: 8(2): e55831.
13. Differential modulation of phenotypic composition of HIV infected and uninfected PBMCs during cryopreservation **Ashwini Shete**, Priyanka Jayawant, Madhuri Thakar, Swarali Kurle, Darmesh P Singh and R.S. Paranjape. Journal of Immunoassay and Immunochemistry 2013;34:333-345
  14. HIV antigen specific reactivation of HIV infection from cellular reservoirs: Implications in the settings of therapeutic vaccinations. **Ashwini Shete**, Madhuri Thakar, Dharmesh P. Singh, Raman Gangakhedkar, Asmita Gaikwad, Jyoti Pawar, Ramesh Paranjape. AIDS Res Hum Retroviruses. 2012 Aug;28(8):835-43. Epub 2011 Nov 21.
  15. In vitro sensitization of T cells with DC associated/delivered HIV constructs can induce polyfunctional CTL response, memory T cell response and virus suppression. Swarali Kurle, Madhuri Thakar, **Ashwini Shete**, Ramesh Paranjape. Viral Immunol. 2012 Feb;25(1):45-54. Epub 2012 Jan 10.
  16. T-cell Epitopes Identified by BALB/c Mice Immunized with Vaccinia Expressing HIV-1 Gag lie within immunodominant Regions Recognized by HIV-infected Indian Patients. **Ashwini V Shete**, Madhuri R Thakar, Srikanth P Tripathy, CG Raut,<sup>1</sup> Sekhar Chakrabarti,<sup>2</sup> and Ramesh S Paranjape. J Glob Infect Dis. 2011 Jul-Sep; 3(3): 246–253
  17. Peripheral Blood CD4+ T Lymphocyte Counts in Healthy Adult Indians: A Review **Ashwini Shete**, Madhuri Thakar, Philip Raj Abraham, Ramesh Paranjape. Indian J Med Res. 2010 Dec;132(6):667-75
  18. Safety and Immunogenicity of tgAAC09, a recombinant Adeno-Associated virus type C vaccine in India Sanjay Mehendale, Seema Sahay, Madhuri Thakar, Sushant Sahasrabuddhe, Meghana Kakade, **Ashwini Shete**, Aparna Shrotri, Aggeliki Spentzou, Tony Tarragona, Gwynneth Stevens, Sonali Kochhar, John Louis Excler, Pat Fast, Ramesh Paranjape. Indian J Med Res 132, August 2010, pp 168-175
  19. Measuring T-cell immunity in HIV vaccine clinical trials: PBMC and ELISPOT assay proficiency concordance in laboratories from 3 continents. Boaz MJ, Hayes P, Tarragona T, Seamons L, Cooper A, Birungi J, Kitandwe P, Semaganda A, Kaleebu P, Stevens G, Anzala O, Farah B, Ogola S, Indangasi J, Mhlanga P, Van Eeden M, Thakar M, **Pujari A**, Mishra S, Goonetilleke N, Moore S, Mahmoud A, Sathyamoorthy P, Mahalingam J, Narayanan PR, Ramanathan VD, Cox JH, Dally L, Gill DK, Gilmour J. Clin Vaccine Immunol. 2009 Feb;16(2):147-55. Epub 2008 Dec 17
  20. Outbreak of Leptospirosis in Mumbai: A De, A Varaiya, **A Pujari**, M Mathur, M Bhat, S Karande , ME Yeolekar. Indian Journal of Medical Microbiology 2002;20:153-155.

(Note: - Please send latest soft copy of photograph for website.)

