

**Name: Dr. Swarali N. Kurle**

**Designation: Scientist C**

**Department: Immunology and HIV Drug Resistance**

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**Educational Qualification:**

Ph.D. (Health Sciences), University of Pune

**Awards and honors:**

1. "Senior Research Fellowship" award by Council for Scientific and Industrial Research (CSIR), New Delhi, India.
2. International scholarship for the "XV<sup>th</sup> International AIDS Conference" at Bangkok, Thailand in 2004.
3. Best paper presentation award in the 32<sup>nd</sup> Annual conference of the Indian Immunologists' Society in 2005 at Chandigarh.

**Research Areas:**

- HIV drug resistance
- Phylogenetic analysis
- HIV Immunology

**Grant Support & Projects:**

- Role of SAMHD1 in HIV-1 infection of human Dendritic Cells (Intramural funding)
- HIV drug resistance surveys to assess the pre treatment and acquired drug resistance among patients before initiating; and after receiving antiretroviral therapy at 12 months & 48 months in India (NACO)
- Evaluation of sensitivity of In-house drug resistance assay using the Dried Blood Spots (DBS) from HIV infected patients with or without ART (WHO)
- Comparative evaluation of ViveST and DBS specimens for HIV-1 Drug resistance genotyping (WHO)
- Analysis of HIV genotypes in Transgenders (TG) population from India (Intramural funding)

**Publications:**

1. Indian Long-term NonProgressors Show Broad ADCC Responses with Preferential Recognition of V3 Region of Envelope and a Region from Tat Protein. *Front. Immunol.* 8:5.
2. Case reports with Phylodynamic Evidence of Non-vertical HIV Transmission in Children, India. 2016. Submitted to *Pediatrics*. Provisionally Accepted.
3. Cross Sectional Study of Virological Failure and Multi-Nucleoside Reverse Transcriptase Inhibitor Resistance at 12 months of Antiretroviral Therapy in Western India. *Medicine*, 2016 Sep;95(37):e4886.
4. Karade S, Patil AA, Ghate M, Kulkarni SS, Kurle SN, Risbud AR, Rewari BB, Gangakhedkar RR (2016). Limited HIV Pretreatment Drug Resistance Among Adults Attending Free Antiretroviral Therapy Clinic of Pune, India. *AIDS Res Hum Retroviruses*. 2016 Apr;32(4):377-80. doi: 10.1089/AID.2015.0277. Epub 2016 Jan 7.
5. Outcome of patients on second line antiretroviral therapy under programmatic condition in India. *BMC Infect Dis*. 2015 Nov 14;15:517.
6. Near Full-Length Genomic Characterization of a Novel CRF 01\_AE/C Recombinant from Western India. *AIDS Res. and Hum. Retro.* Volume 31, Number 00, 2015.
7. Differential modulation of phenotypic composition of HIV infected and uninfected PBMCs during cryopreservation. *Journal of Immunoassay & Immunochemistry*; 2013, Vol. 34 Issue 4, p333-345.
8. Safety and immunogenicity of DNA and MVA HIV-1 subtype C vaccine prime-boost regimens: A Phase I trial in HIV-uninfected Indian volunteers. *PLoS ONE*; 2013, 8(2), e55831.
9. In vitro sensitization of T cells with DC associated/delivered HIV constructs can induce polyfunctional CTL response, memory T cell response and virus suppression. *Viral Immunology* 2012, Volume 25, pp 45-54.
10. Emergence of NNRTI drug resistance mutations after single-dose nevirapine exposure in HIV type 1 subtype C-infected infants in India. *AIDS Res Hum Retroviruses*. 2007 May;23(5):682-5. PubMed PMID: 17530993.
11. Srikanth P. Tripathy, Smita S.Kulkarni, Sushama D Jadhav, Kalpana D Agnihotri ,Abhay J Jere, Swarali N Kurle, Sujit K. Bhattacharya, Khomdon Singh, Sriram P. Tripathy and Ramesh S. Paranjape. Detection of Subtype C and Subtype B HIV-1 Recombinants in India. *AIDS Res. and Hum. Retro*, February 2005:152-157.
12. Full-length gag sequences of HIV-1 subtype C recent seroconverters from Pune, India. *AIDS Res. and Hum. Retro.*2004 Vol.20,No.10,1113-1118.
13. gp120 sequences from HIV -1 subtype C early seroconverters in India. *AIDS Res. and Hum. Retro*. 2004 Vol.20,No.8,889-894.
14. "[Mother to Child HIV Transmission: NARI Experience](#)". Proceedings of International Conference on Emerging trends in Haematology & Immunohaematology. Published by Institute of Immunohaematology, Mumbai, 2007, pages 45-50.

