

Biodata:

Name : Dr. Madhuri R. Thakar
Designation : Scientist F
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Date of Birth : 14th July 1963(Kolhapur, India)

**Education**

Institution	Degree	Year	Field of study
Shivaji University, Kolhapur, India	B.Sc.	1983	Microbiology
	M.Sc. (first in Merit)	1986	Medical Microbiology
Pune University, Pune, India	Ph.D.	1995	Microbiology

Position and Employment

Post Held	Employer	Duration
Scientist F	National AIDS Research Institute, Pune, India	Aug 2015 till date
Scientist E		Sep 2010 to 2015
Scientist D		Aug 2007 to 2010
Senior research Officer		Aug 2002 to 2007
Research Assistant		Feb.93 to July 2002
Research Assistant	National Institute of Virology, Pune, India	Nov 1990-Jan 93
Junior Research Fellow		May 1987-Oct 1990

Honors/Awards

- Research fellow for training at Pasteur Institute and Hospital Pitié-Salpêtrière under the collaborative programme titled 'Immunoregulatory mechanism in mother to child HIV infection. Oct 2000- Feb 2001.
- Recipient of ICMR Excellent Research Output Award for 2006-2009
- Fogarty scholarship recipient for training on mucosal studies at Medical school in Hanover, New Hampshire USA. Dec 2008.

Areas of Interest:➤ **Immune response in HIV infection:**

- Studies on immunological correlates of protection and absence of HIV disease progression. The cellular and antibody response is being studied in HIV infected patients with absence of disease progression, patients with progressive HIV infection and patients on treatment. Development of cohort of Long Term Non Progressors (LTNPs) to study the correlates of absence of disease progression.
- HIV-specific antibodies such as ADCC mediating IgG antibodies is the major area of study: the epitope recognized by these antibodies from the LTNPs
- Studies of various innate immune effector cells such as Natural killer cells, Natural killer T cells and HIV-specific CD4 and CD8 T cells in LTNPs
- Studies of the mucosal immune response, both innate and HIV-specific, is being estimated to understand the mechanisms of HIV acquisition and resistance.

➤ **Quality Control in HIV laboratories**

- Working as In Charge of apex Laboratory developed to support National AIDS Control Programme (NACP).
- Proficiency provider for the external quality assurance (proficiency) in HIV serology and CD4 count estimation in all laboratories under the NACP

Scientific review experience:

1. Reviewer for the Ph.D. thesis: for two Ph.D.s
2. Reviewer for the journals: Indian Journal of Medical Research, Journal of Translational Medicine, Journal of Ayurveda and Integrative Medicine.
3. Reviewer for the abstracts submitted to International AIDS Conference 2008, 2009

Membership of professional bodies:

1. Life member of Indian Immunology Society
2. Member of Technical Resource group for the Self HIV testing planning and execution in India
3. Member of International AIDS Society
4. Member of Mumbai Immunology Group

Technical expertise:

- Worked as a member of expert group for development of HIV testing and monitoring guidelines for WHO SEARO.
- Member of an expert group to decide the specification of CD4 equipments for procurement for NACO
- Worked as a coordinator for development of National guidelines for CD4 count estimation
- Worked for getting the CD4 and HIV serology laboratory accredited by National Board for Accreditation of Laboratories (NABL).
- Worked as laboratory supervisor for the vaccine trial and instrumental in getting the immunogenicity laboratory accredited for GCLP by Quology UK

Training acquired:

- Human Subjects Research Training: A web-based course. Johns Hopkins University School of Medicine, Baltimore, USA. Sep.2009
- Good Clinical Laboratory Practices, organized by PPD 23th to 25th Feb. 2007.
- Good clinical Practices under the ICMR NACO-IAVI sponsored programme for Immunogenicity testing in the phase I clinical trial of candidate HIV vaccine: 27th to 29th May 2004.
- Distance Education Course on "Clinical Vaccine Trials: Planning and Implementation- an intensive eight week distance education course. Bloomberg School of Public Health, the Johns Hopkins University, Baltimore, USA. April-May 2003
- Multi country workshop on ELISPOT assays conducted by HPTN Central Immunology Laboratory, Johns Hopkins University, Baltimore, USA at National AIDS Research Institute, 7th to 11th April 2003.

Academics

Teaching experience:

1. Clinical Immunology: Masters in Public Health, Savitribai Phule Pune University, 2010
2. Immunodeficiencies and Immunopathogenesis of HIV and HIV vaccines : Masters in Virology Savitribai Phule Pune University, 2008-2016
3. Vaccines and Immunology: M.Sc.biotechnology, Pravara Institute of Medical Sciences, Ahmednagar.

Research Scholars and mentees

Post doctoral trainee:

Current:

1. Ms. Rasmi Virkar: 2017- till date. Project : T cell profiling of HIV-1 infected Long Term Non Progressors: a model for functional cure

Ph.D. Scholars:

Completed:

1. Mrs. Archana Kulkarni-Munje: 2009-2014. Project: Role of Natural killer cells in HIV infection. Project: Role of Natural killer T cells in HIV infection CSIR-Fellow

Current:

1. Mr.Dharmendra Singh: 2012-till date. Project: Role of Natral Killer T cells in HIV infection. ICMR fellow
2. Mrs. Sneha Talathi. 2012-till date. Project: Role of non-neutralizing antibodies in HIV infection UGC fellow
3. Mr. Nawaj Shaikh: 2012-till date: Role of Toll like Receptors in HIV-1 infection. ICME Fellow.
4. Mrs. Poonam Kadam. 2014-tii date. Project: Characterization of immune responses impacting latent HIV reservoirs.
5. Mrs. Jayashri Dande. 2017- till date. Project: Generation of polyclonal antibodies mediating ADCC.
6. Mrs. Kalawati Lalsare.2017-till date. Project: NK cell memory and HIV.

M.Sc. Students:

Completed:

1. Mrs.Shubhangi Bichare: 2008-2013. Project: Characterization of CD4+ and CD8+ T Cells in Recent HIV Infection

International Mantee:

1. Mr. Welba Dansala, Senegal. Recipient of the C V Raman International Fellowship for African Researchers program. Project: Assessment of lymphocyte activation in HIV-1 infected individuals. July- Sep.2013

Research Support

Sr. No.	Title of Project	Duration	Funding Agency	Role
1	A multi-centric observational study to examine replicative fitness and pathogenic properties of the emerging new viral strains of HIV-1 in India	2014-2018	DBT	Co-investigator

2	Cohorts for HIV Resistance and Progression in Indian Children and Adults (CoHRPICA)	2017-2020	ICMR-DBT	Co-investigator
3	Antibody-Dependent Cellular Cytotoxicity (ADCC): a new frontier in vaccine research	2014-2017	DBT	Principal Investigator
4	Characteristics of cellular effector mechanisms against HIV at cervicovaginal level in Indian women	2014-2017	DBT/ICMR	Principal Investigator
5	Immunological and virological characterization of recent HIV infection. (Principle Investigator)	2007-2010	DBT	Principal Investigator
6	Age-Related Blood Lymphocyte Subsets in Healthy Indian Children – A Multicentric Study. A Task force study.	2010-2013	ICMR	Investigator
7	Determination of reference ranges for CD4+ T cell counts and percentages for adult Indian population.	2009-2010	NACO	Principal Investigator
8	Assessment of innate and HIV-specific immune responses at systemic and genital level in HIV-1 infected Indian women.	2009-2012	Intramural	Principal Investigator
9	A Phase I Double-Blind, Placebo-Controlled, Randomized Trial to Evaluate the Safety and Immunogenicity of TBC-M4, a multigenic MVA HIV Vaccine vs ADVAX, a multigenic DNA HIV Vaccine followed by TBC-M4, a multigenic MVA HIV Vaccine,	2007-2010	IAVI	Principal Investigator
10	Indo-South African Initiative: HIV Vaccine Immunogen Design: Identification of T-cell epitopes associated with control of viral replication in Indian and South African HIV-1 infected individuals	2007-2010	DST, India	Investigator
11	Diagnosis of active TB in HIV infected and uninfected young children in India	2008-2011	NIH-ICMR	Investigator
12	A Phase 1 Randomized, Placebo- Controlled, Double- Blind Dose-Escalation Trial to Evaluate the Safety and Immunogenicity of tgAAC09, a gag-PRDRT AAV HIV Vaccine	2004-2007	IAVI	Co-Investigator

Publications:

1. Dharmendra Singh¹, Jyoti Patankar¹, Shubhangi Bichare¹, Manisha Ghate² and Madhuri Thakar¹*Reduced Activation of CD4+ Regulatory T Cells is Associated With Preserved HIV- Specific CD8+ T Cells in Cohort of Indian Long Term Non Progressors (LTNPs). *J Hum Virol Retrovirol* 2017, 5(7): 00185
2. Madhuri Thakar, Francis Angira, Kovit Pattanapanyasat, Alan H.B. Wu, Maurice O’Gorman, Hui Zeng, Chenxue Qu, Bharati Mahajan, Kasama Sukapirom, Danying Chen, D, Yu Hao, Yan Gong, Monika De Arruda Indig, Sharon Graminske, Diana Orta, Nicole d’Empaire, Beverly Lu, Imelda Omana-Zapata, Clement Zeh. CD4 Lymphocyte Enumeration and Hemoglobin Assessment for Making Priority-Setting Decisions Regarding ART Initiation in Resource-Limited Settings: A Multisite Evaluation of the BD FACSPresto™ System. *Open AIDS J.* 2017 Oct 24; 11:76-90. doi: 10.2174/1874613601711010076.
3. Aarti Mane, MD; Mansa Angadi; Pallavi Vidhate; Shilpa Bembalkar; Ishrat Khan; Shubhangi Bichare; Manisha Ghate; Madhuri Thakar. Characterization of vaginal lactobacilli from HIV-negative and HIV-positive Indian women and their association with genital HIV-1 shedding. *Journal of Medical Microbiology*, 2017, 66:1471-1475.

4. Nehul S, Kulkarni A, Pawar S, Godbole S, Ghate M, Thakar M. Cross-reactive influenza-specific antibody-dependent cellular cytotoxicity-mediating antibodies in HIV-infected Indian individuals. *Infect Dis (Lond)*. 2017 Aug 4;1-9. doi: 10.1080/23744235.2017.1361547.
5. Nawaj Shaikh, Vandana Saxena, Sudhanshu Pandey, Ajit Patil, and Madhuri Thakar. HECT Domain and RCC1-Like Domain-Containing Protein 5 (HERC-5) Gene Polymorphisms in HIV-1-Infected Individuals: A Study from India. *AIDS Res Hum Retroviruses*. 2017 Jul 24. doi: 10.1089/aid.2017.0108.
6. Nawaj Shaikh, Akshay Gupte, Sujata Dharmshale, Supriya Pokkali, Madhuri Thakar, Vijay J. Upadhye, Alvaro A. Ordonez, Aarti Kinikar, Nikhil Gupte, Vidya Mave, Anju Kagal, Amita Gupta, Ajit Lalvani, Ramesh Paranjape, Renu Bharadwaj, Sanjay K. Jain. Novel interferon γ assays for diagnosing tuberculosis in young children in India, *Int J Tuberc Lung Dis*. 2017 Apr 1; 21(4):412-419. doi: 10.5588/ijtld.16.0428.
7. 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. Effect of combination antiretroviral therapy on HIV-1-specific antibody-dependent cellular cytotoxicity responses in subtype B- and subtype C-infected cohorts. *J Acquir Immune Defic Syndr*. 2017 Mar 23. doi: 10.1097
8. Singh D, Ghate M, Godbole S, Kulkarni S, Thakar M. CD1d restricted Natural killer T cells are preserved in Indian long term non progressors (LTNPs). *J Acquir Immune Defic Syndr*. 2017 Feb 14. doi: 10.1097/QAI.0000000000001322. [Epub ahead of print]
9. Saxena V, Bichare S, Singh D, Ghate M, Godbole S, Kulkarni S, Gangakhedkar R, Paranjape R, Thakar M. Short Communication: Low Immune Activation Is Associated with Higher Frequencies of Central Memory T Cell Subset in a Cohort of Indian Long-Term Non progressors. *AIDS Res Hum Retroviruses*. 2017 Feb;33(2):121-125
10. Archana Kulkarni, Swarali Kurle, Ashwini Shete, Manisha Ghate, Sheela Godbole, Vijaya Madhavi, Stephen Kent, Ramesh Paranjape, Madhuri Thakar. Indian Long Term Non Progressors show broad ADCC responses with preferential recognition of V3 region of Envelope and a region from Tat protein. *Frontiers in Immunology* 2017: 8(14) · January 2017, DOI: 10.3389/fimmu.2017.00005.
11. Ashwini Shete, Poonam Suryawanshi, Chetan Chavan, Archana Kulkarni, Sheela Godbole, Manisha Ghate and Madhuri Thakar. Development of IFN- γ secretory ELISPOT based assay for screening of ADCC responses. *Journal of Immunological methods*. 2017;441:49-55.
12. Varsha Kale, Archana Beri, Madhuri Thakar, Veenita Sinha Dar, Shilpa Bembalkar, Naresh Goel, Arun Risbud and Ramesh Paranjape . Feasibility of Using Two versus Three Rapid Tests for HIV diagnosis in India: Analysis of public health program data *World Journal of AIDS* 2017,7, 16-22.
13. Dhamanage A, Thakar M, Paranjape R. Human Immunodeficiency Virus-1 Impairs IFN-Alpha Production Induced by TLR-7 Agonist in Plasmacytoid Dendritic Cells. *Viral Immunol*. 2017 Jan/Feb; 30 (1):28-34.
14. Adrienne F.A. Meyers, Michèle Bergeron, Madhuri Thakar ,Tao Ding , Alexandre Martel, Paul Sandstrom, Bharati Mahajan, Philip Abraham, Sandhya Kabra, Namita Singh, Trevor Peter ,T. Blake Ball. QASI: A Collaboration for Implementation of an Independent Quality Assessment Program in India. *Afr J Lab Med*. 2016;5(2), a442.
15. Shete A, Suryawanshi P, Godbole S, Pawar J, Paranjape R, Thakar M HIV-infected CD4+ T Cells Use T-bet-dependent Pathway for Production of IL-10 Upon Antigen Recognition. *Scand J Immunol*. 2016 Apr;83 (4):288-96. doi: 10.1111/sji.12422.
16. Negi N, Vajpayee M, Singh R, Sharma A, Murugavel KG, Ranga U, Thakar M, Sreenivas V, Das BK. Cross-Reactive Potential of HIV-1 Subtype C-Infected Indian Individuals Against Multiple HIV-1 Potential T Cell Epitope Gag Variants. *Viral Immunol*. 2016 Nov 22. [Epub ahead of print]

17. Pandey SS, Cherian S, Thakar M, Paranjape RS. Short Communication: Phylogenetic and Molecular Characterization of Six Full-Length HIV-1 Genomes from India Reveals a Monophyletic Lineage of Indian Sub-Subtype A1. *AIDS Res Hum Retroviruses*. 2016, ay; 32(5): 489-502. doi: 10.1089/AID.2015.0207. Epub 2016 Feb 11.
18. Ghate M., Mehendale S., Meyer R., Umlauf A., Deutsch R., Kamat R., Thakar M., Risbud A., Kulkarni S., et al.. The effects of antiretroviral treatment initiation on cognition in HIV-infected individuals with advanced disease in Pune, India. *J. Neurovirol*. 2015, 21 (4):391- 8.
19. Ashwini Shete, Dharmesh P Singh, Bharati Mahajan, Amol Kokare, Ramesh Paranjape and Madhuri Thakar. Duplicate analysis method: a cheaper alternative to commercial IQC materials in limited resource settings for monitoring CD4 testing. *AIDS Res Ther* (2015) 12:25.
20. Megha Antwal, Rohan Gurjar, Shweta Chidrawar, Jyoti Pawar, Sunil Gaikwad, Narayan Panchal, Varsha Kale, Madhuri Thakar, Arun Risbud & Srikanth Tripathy Clinical profile of HIV infected patients attending a HIV referral clinic in Pune, India. *Indian J Med Res* 140, August 2014, pp 271-277.
21. Patel P, Ansari M, Bapat S, Thakar M, Gangakhedkar R, Jameel S. The microRNA miR-29a is associated with human immunodeficiency virus latency. *Retrovirology*. 2014 Dec; 11: 108.
22. Ashwini Shete, Madhuri Thakar, S.M. Mehendale and R.S. Paranjape. Is prime boost strategy a promising approach in HIV vaccine development? *J AIDS Clin Res* 2014:5:293
23. Kulkarni AG, Paranjape RS, Thakar MR. Higher Expression of Activating Receptors on Cytotoxic NK Cells is Associated with Early Control on HIV-1C Multiplication. *Front Immunol*. 2014 May 16;5: 222. doi: 10.3389/fimmu.2014.00222. e Collection 2014.
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26. Ghate M, Tripathy S, Gangakhedkar R, Thakar M, Bhattacharya J, Choudhury I, Risbud A, Bembalkar S, Kadam D, Rewari BB, Paranjape R. Use of first line antiretroviral therapy from a free ART programme clinic in Pune, India - A preliminary report *Indian J Med Res* 2013;137:942-9.
27. Thakar M, Mahajan B, Joshi T, Sane S, Paranjape R. CD4 estimating reagents in dry format are compatible with conventional flow cytometer; FACSCalibur for estimation of absolute CD4 count & percentages. *Indian J Med Res*. 2013 Feb; 137 (2):346-55.
28. Patil Rahul, Shukre Subodh, Paranjape Ramesh and Thakar Madhuri. Heparin and EDTA anticoagulants differentially affect the plasma cytokine levels in humans. *The Scandinavian Journal of Clinical & Laboratory Investigation*. 2013; Early Online: 1–4
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31. Mane, A., S. Kulkarni, M. Ghate, A. Risbud, and M. Thakar, HIV-1 RNA shedding in the female genital tract is associated with reduced quantity of Lactobacilli in clinically asymptomatic HIV-positive women. *Diagn Microbiol Infect Dis*, 2013.
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33. Kurle, S., M. Thakar, A. Shete, and R. Paranjape, In vitro sensitization of T cells with DC-associated/delivered HIV constructs can induce a polyfunctional CTL response, memory T-cell response, and virus suppression. *Viral Immunol*, 2012. **25**(1): p. 45-54.
34. Shete, A., M. Thakar, D.P. Singh, R. Gangakhedkar, A. Gaikwad, J. Pawar, and R. Paranjape, Short communication: HIV antigen-specific reactivation of HIV infection from cellular reservoirs: implications in the settings of therapeutic vaccinations. *AIDS Res Hum Retroviruses*, 2012. **28**(8): p. 835-43.
35. Kulkarni, A., R. Paranjape, and M. Thakar, Expansion of defective NK cells in early HIV type 1C infection: a consequence of reduced CD161 expression. *AIDS Res Hum Retroviruses*, 2012. **28**(1): p. 100-5.
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38. Shete, A.V., M.R. Thakar, S.P. Tripathy, C. Raut, S. Chakrabarti, and R.S. Paranjape, 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. *J Glob Infect Dis*, 2011. **3**(3): p. 246-53.
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- & seronegative pulmonary tuberculosis patients with the RNTCP Short Course regimen in Pune, India. *Indian J Med Res*, 2011. **133**: p. 521-8.
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