



Name: ARATI KISHOR MANE

Designation: Scientist D, Department of Microbiology

Institute: National AIDS Research Institute, Pune

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Education:

Degree	Year	University	Subject	Div/Class/Grade
M.B.B.S.	2001	BJ Medical College, Pune University	All medical subjects	First class
M.D.	2005	BJ Medical College, Pune University	Microbiology	First class with Distinction

Positions:

Grade/Post	From	To	Inst/centre/Hqrs
Scientist D	Sep 2015	Till date	National AIDS Research Institute, Pune
Scientist C	Sep 2011	August 2015	National AIDS Research Institute, Pune
Scientist B	June 2007	August 2011	National AIDS Research Institute, Pune
Assistant Professor	Nov2006	May 2007	Mookambika Medical College, Tamil Nadu
Assistant Professor	April 2006	May 2007	Gokulam Medical College & RC, Kerala
Assistant Professor	March 2005	March 2006	B.J. Government Medical College, Pune

Research interests:

- Pathogenesis of cervical cancer and molecular characterization of *Human Papillomavirus* infection.
- Evaluation and development of rapid, low cost diagnostics.
- Pathogenesis of candidal infections.

Awards and Honors:

- Received First prize for oral presentation at 34th MICROCON conference, of Indian Association of Medical Microbiologists, 2015.
- International scholarship recipient at 20th AIDS 2014 conference, Melbourne, Australia, July 2014.
- Selected under the Microbicide Trial Network Scholars Program to attend the 21st Annual Course on Principles of STD and HIV Research at the University of Washington, Seattle, Washington, 2013.
- Received Best Poster award at the '4th International Conference on Opportunistic Pathogens in HIV/AIDS', 2010.
- Received 4th rank at the All India level Hindi examination conducted under the Hindi Teaching Scheme, 2009.

- Late Yasmin Thakur award for obtaining first rank with distinction in M.D. examination held in Pune University, 2005.

Major Research Projects

As Principal investigator-

- Characterization of intratype genomic variants of Human papillomavirus type 16: by cervical intraepithelial neoplastic status with functional and evolutionary analysis (Department of Science and Technology)
- Evaluation of four rapid screening assays for detection of antibodies to Hepatitis C Virus (Clinton Health Access Initiative, Inc)
- HPV-based novel biomarkers for cost-effective cervical cancer screening among HIV-infected women in India, 'Intramural-to-India' program initiative (ICMR and NCI).
- Estimation of national Hepatitis C (HCV) disease burden (WHO).
- Evaluation of a novel diagnostic method (NID) for tuberculosis diagnosis in sputum samples. (DBT under BIG scheme).
- Novel dosage forms of Serratiopeptidase (GS College of Pharmacy and MJ BioPharma).
- Characterization of oral Candida isolates from HIV-infected and healthy individuals (Intramural).
- Genetic basis of azole resistance in Candida albicans (Intramural).
- Pulmonary pathogens in HIV positive individuals with community acquired pneumonia (Intramural).

As Co- Principal investigator/Co-investigator-

- Cervical cancer screening in HIV infected women in Pune, India, a prospective cohort study (ICMR and NIH, USA)
- Clinical trials unit (NIH, USA)
- Vanderbilt NARI-NIE Informatics Training Program. (Vanderbilt University, USA)
- Seroprevalence and risk factors associated with Scrub Typhus in selected blocks of Gorakhpur district in Uttar Pradesh, India (ICMR).

Publications:

- **Arati Mane**, Amit Nirmalkar, Arun Risbud, Seema Sahay, Ramesh Bhosale, Sten Vermund, Sanjay Mehendale, Vikrant Sahasrabudhe. Rates and determinants of incidence and clearance of cervical HPV genotypes among HIV-seropositive women in Pune, India. **Journal of Clinical Virology 2016**, <http://dx.doi.org/10.1016/j.jcv.2016.10.013>.
- **Arati Mane**, Pallavi Vidhate, Vaishali Waman, Chanchal Kusro, Vandana Saxena, Urmila Kulkarni-Kale, Arun Risbud. Molecular mechanisms associated with Fluconazole resistance in clinical Candida albicans isolates from India. **Mycoses 2016**; 59(2):93-100.
- Mahajan Bela, Bagul Neeta, Desai Rajiv, Reddy Mamatha, Mahajan Amit, Shete Ashwini, Risbud Arun and **Mane Arati**. Pseudomembranous type of oral candidiasis is associated with decreased salivary flow rate and secretory immunoglobulin A levels. **Mycopathologia 2015**; 180:75-80.
- Anuradha Narayankhedkar, Anahita Hodiwala and **Arati Mane**. Clinico-etiological characterization of infectious vaginitis amongst women of reproductive Age Group from Navi Mumbai, India. **Journal of Sexually Transmitted Diseases, 2015**; Article ID 817092, <http://dx.doi.org/10.1155/2015/817092>.
- **Mane Arati**, Gujar Pankaj, Chandra Jipsi, Lokhande Rahul, Dhamgaye Tilak, Ghorpade Shivhari, Risbud Arun. Pneumocystis jirovecii Infection and the Associated Dihydropteroate Synthase (DHPS) and Dihydrofolate Reductase (DHFR) Mutations in HIV-Positive Individuals from Pune, India. **Mycopathologia 2014**; 79:141-5.

- Godbole Sheela, **Mane Arati**, Chidrawar Shweta, Katti Usha, Kalgutkar Shubhangi, Athavale Prachi, Pawar Jyoti, Ratnaparkhi Manisha, Alexander Mallika, Risbud Arun, Paranjape Ramesh. Prevalence of anal human papillomavirus infection among HIV-infected women from India. *J Acquir Immune Defic Syndr* 2014; 67(3):e111-4.
- Beatriz Grinsztejn, Mina C Hosseinipour, Heather J Ribaud, Susan Swindells, Joseph Eron, et al, for the HPTN 052-ACTG Study Team: **Arati Mane**: Effects of early versus delayed initiation of antiretroviral treatment on clinical outcomes of HIV-1 infection: results from the phase 3 HPTN 052 randomised controlled trial. *Lancet Infect Dis* 2014, Volume 14, Issue 4, 281 – 290.
- Jadhav Nutan, **Mane Arati**, Kulkarni R, Palshetker A, Singh K, Joshi S, Risbud A, Kulkarni S. Antimicrobial activity of plant extracts against sexually transmitted pathogens. *Nat Prod Res* 2014; 27:1-5.
- Bela Mahajan, GS Mamatha Reddy, Neeta M Bagul, **Arati Mane**, Amit Mahajan. Identification of Candida species using Hichrome agar in HIV-seropositive patients with oral candidiasis. *Journal of Dental Research and Scientific Development* 2014; 1:11-4.
- **Arati Mane**. Simple AMplification Based Assay (SAMBA): Point of care diagnostic for HIV viral load. *NARI Bulletin* 2014, 5, 12-15.
- **Arati Mane**, Ajinkya Kulkarni and Arun Risbud. Biofilm formation in *Candida* isolates from HIV infected and uninfected individuals from Pune, India. *Mycoses* 2013, 56, 182 - 186.
- **Arati Mane**, Smita Kulkarni, Arun Risbud, Manisha Ghate, Madhuri 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, 75, 112-114.
- **Arati Mane**, Amit Nirmalkar, Arun Risbud, Sten Vermund, Sanjay Mehendale, Vikrant Sahasrabudhe. Genotype-specific incidence and clearance rates of human papilloma virus (HPV) infection in HIVinfected women from Pune, India. *BMC Infectious Diseases* 2012, 12(Suppl1):O2.
- **Arati Mane**, Shraddha Gaikwad, Shilpa Bembalkar, and Arun Risbud. Increased expression of virulence attributes in oral *Candida albicans* isolates from HIV -positive individuals. *J Med Microbiol* 2012, 61, 285-290.
- **Arati Mane**. Translational research: an overview. *NARI Bulletin* 2012, 3, 7-11.
- **Arati Mane** , Amit Nirmalkar, Arun Risbud, Sten Vermund, Sanjay Mehendale, Vikrant Sahasrabudhe. HPV genotype distribution in cervical intraepithelial neoplasia among HIV-infected women in Pune, India. *PLoS one* 2012, 7(6): e38731.'
- Myron S. Cohen, Ying Q. Chen, Marybeth McCauley, Theresa Gamble, Mina C. Hosseinipour, Nagalingeswaran Kumarasamy et al, for the *HPTN 052 Study Team**: **Arati Mane**:. Prevention of HIV-1 Infection with Early Antiretroviral Therapy. *N Engl J Med* 2011; 365:493-505.
- **Arati Mane**, Chayya Pawale, Shraddha Gaikwad, Shilpa Bembalkar & Arun Risbud. Adherence to buccal epithelial cells, enzymatic and hemolytic activities of *Candida* isolates from HIV-infected individuals. *Med Mycol* 2011, 49 (5): 548-551.
- **Arati Mane**, Sapna Panchvalli, Shilpa Bembalkar & Arun Risbud. **Species distribution & antifungal susceptibility of oral *Candida* colonising or infecting HIV infected individuals.** Indian J Med Res 2010, 131: 836-838.
- S.A. Rokale & **A.K. Mane**. A Study Of Age At Menarche, The Secular Trend And Factors Associated With It. *The Internet Journal of Biological Anthropology* 2009; 3 (2).
- **AK Mane**, AP Karmarkar, RS Bharadwaj. Anaerobic Bacteria in Subjects with Chronic Periodontitis and In Periodontal Health. *J Oral Health Comm Dent* 2009; 3 (3): 45-47.

- **Arati Mane**, Alaka Karmarkar, Renu Bharadwaj. Role of Anaerobic Bacteria in Mild, Moderate and Severe Cases of Chronic Periodontitis. **The Internet Journal of Dental Sciences** 2009; 7 (1).
- Rokale SA, Vaidya SA, Sant SM, **Mane AK**. Developing an assessment system for undergraduate teaching. **South East Asian Journal of Medical Education** 2008; 2(2): 9 - 13.
- Dale JD, Mane AK, Deshmukh PR, Kagal AS, Ghadge DP, Bhore AV, Yemul VL. A small outbreak of dengue after heavy rainfall in Pune. *Medical Journal of Western India* 2006; 33: 49-52.

Patents:

- 2 Indian patents filed related to Novel dosage forms of Serratiopeptidase in collaboration with GS College of Pharmacy and MJBioPharma Company (2996/MUM/2010 and 563/MUM/2011).