

Geetanjali M. Litake (M.Sc., Ph.D.)

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Objective

To accept challenges in the field of an infectious diseases, so as to achieve scientific goals and contribute to community.

Key Competencies

- Accomplished to design and execute research projects
- Experienced postgraduate teacher
- Molecular diagnosis of infectious diseases
- Hospital diagnostics (Microbiology Laboratory)
- Extensive experience in antimicrobial resistance studies of hospital acquired infections
- Proficient in most of the techniques practiced in basic and clinical Microbiology, Immunology, Molecular Biology and Genetic Engineering

Career History

- Assistant Professor (From 2/07/2018 till date)
Department of Biotechnology
PE Society's Modern College of Arts, Science and Commerce, Ganeshkhind, Pune, India
- Assistant Professor (29/09/2010 to 2/07/2018)
Department of Biotechnology
PE Society's Modern College of Arts, Science and Commerce, Shivajinagar, Pune, India
- Microbiologist (Dec.2009 - June 2010)
Poona Hospital and Research Center, Pune, India
[Responsibility- Hospital Diagnostics -Microbiology laboratory]
- Microbiologist (Feb. 2008 - Nov. 2009)
Molecular Diagnostic Center, Pune, India
[Responsibility-Diagnosis of viral, bacterial and fungal infections using Real-Time PCR]

Other Affiliation

- Recognized **Ph.D. Guide** of Savitribai Phule Pune University in the subject **Biotechnology**
- Association of Microbiologists of India- Life member

Educational Development

- Ph.D. (Basic Medical Sciences [Medical Microbiology]) [2009]
School of Basic Medical Sciences, University of Pune, Pune, India.

Title of Ph.D. Thesis:

"Studies on β -Lactam resistance in Acinetobacter isolates recovered from trap secretions with special reference to Extended-spectrum β -Lactamase"

Work highlights:The research was directed to study an extended-spectrum β -Lactamases (ESBL) mediated β -Lactam resistance in *Acinetobacter* clinical isolates including epidemiology and molecular characterization.

- M.Sc. (Medical Microbiology) [1996]
B.J.Medical College, University of Pune, Pune, India.

The course involved training in all aspects of the diagnosis of infectious diseases.

- B.Sc. (Microbiology) [1992]
AbasahebGarware College, University of Pune, Pune, India

Computer Education

- Advanced Diploma in Computer Software System Analysis and Applications (ADCSSAA) [2001]
(Naralika Institute, Pune, affiliated to Maharashtra Technical Education Board, Maharashtra, India)
- Diploma in C and C++ programming (IMLD, Dnyanprabodhini, Pune)

Research Experience

- **Research Project**
Principal investigator of completed independent research project entitled '**Evaluation of environmental dissemination of Multi-Drug resistant *Staphylococcus* species**' funded by BCUD, SavitribaiPhule Pune University, for the period 2014-2016 (Rs.1.8 Lakh)
- **Doctoral research** (Sept. 2002-Mar. 2009)
Studies on *Acinetobacter* clinical isolates to evaluate their antibiotic resistance at molecular level, in the context of Extended Spectrum β -Lactamases.
School of Basic medical Sciences and Division of Biochemistry, University of Pune, Pune, India

Publications

- 1) **Litake GM**, Ghole VS, Niphadkar KB, Joshi SG. (2015) Phenotypic ESBL Detection in *Acinetobacterbaumannii*: A real challenge. *Am J Infect Dis*11(3): 48-53. [IF-0.33]
- 2) Joshi SG, **Litake GM**. (2013) *Acinetobacterbaumannii*: An emerging pathogenic threat to public health. *World J Clin Infect Dis*3(3):25-36. [Review article]
- 3) **Litake GM**, Ghole VS, Niphadkar KB, Joshi SG. (2009) PER-1 type Extended-Spectrum β -Lactamase producing *Acinetobacterbaumannii* clinical isolates from India. *Int J Antimicrob Agents*34(4):388-9. [IF-3.59]
[Sequences - GenbankAccession numbers: EU840995 - EU841004 and EU921231 -EU921235]
- 4) Joshi SG, **Litake GM**, Ghole VS, Niphadkar KB. (2006) Clinical and demographic features of infection caused by *Acinetobacterspecies*. *Indian Journal of Medical Science* 60(9): 351-360. [IF-1.67]
- 5) Satpute MG, Telang NV, **Litake GM**, Niphadkar KB, Joshi SG. (2006) Prevalence of cryptococcal meningitis at a tertiary care center of western india (1996-2005). *Journal of Medical Microbiology*55: 1301-1302.[IF-2.5]

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- 6) **Litake GM**, Joshi SG, Ghole VS. (2005) TNT biotransformation potential of the clinical isolate of *Salmonella typhimurium* - potential ecological implications. *Indian Journal of Occupational and Environmental Medicine* **9**(1): 29-34.
- 7) Joshi SG, **Litake GM**, Ghole VS, Niphadkar KB. (2004) Fluoroquinolone resistance from a transferable plasmid in *Acinetobacter calcoaceticus*. *Indian Journal of Pathology & Microbiology* **47**(4): 142-3. [IF-0.6]
- 8) Joshi SG, **Litake GM**, Ghole VS, Niphadkar KB. (2003) Plasmid-borne extended-spectrum β -lactamase in clinical isolates of *Acinetobacter baumannii*. *Journal of Medical Microbiology* **52**: 1125-1127. [IF-2.5]
- 9) Joshi SG, **Litake GM**, Niphadkar KB, Ghole VS. (2003) Multi-Drug Resistant *Acinetobacter baumannii* from a Teaching Hospital. *Journal of Infection and Chemotherapy* **9** (2): 187-190. [IF-1.632]
- 10) Jagtap SB, Joshi SG, **Litake GM**, Ghole VS, Kulkarni SB. (2000) C-3 Substituted Lawsonmonoximates of Holmium (III): Synthesis, Characterization and Antimicrobial Activity. *Metal-Based Drugs* **7** (3): 147-150.

Date: July 2021

Place: Pune (Maharashtra, INDIA)

Dr. Geetanjali M. Litake