

**Dr. RITIKA CHAUHAN**

D/o Sh. Subash Chander Chauhan

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**CAREER OBJECTIVE**

Is to pursue career in clinical research oriented projects and to translate my practical knowledge and skills to innovations offering several opportunities and aspire to become a good cooperate citizen maintaining professional and organizational ethics.

**ACADEMIC QUALIFICATION**

2010-2015	Ph. D in Microbial Biotechnology- “Bioprospecting of organisms belonging to Phylum Actinobacteria with special reference to Pharmaceutical Applications” VIT University, Vellore, Tamil Nadu, India.
2008-2010	Master of Science (M.Sc.) in Applied Microbiology VIT University, Vellore, Tamil Nadu, India.
2005-2008	Bachelor of Science (B.Sc.) in Microbiology Garden City College, Bangalore, Karnataka.

**RESEARCH EXPERIENCE**

- Presently working as Assistant Professor : The Oxford College of Science, Department of Biotechnology, HSR Layout, Bangalore.
- Research Associate 3 yrs: VIT University, Vellore, Tamil Nadu.
- Worked as HOD: Department of Microbiology, Bangalore City College, Banaswadi Outer Ring Road, Kalyanagar post, Bangalore-560043, Karnataka

**PUBLICATIONS**

1. Abhinaya Mani, Ritika Chauhan and Jayanthi Abraham (2016). Antimicrobial and antioxidant potential of penicillim decumbens strain AJA1 against various pathogens. *Research Journal of Pharmacy and Technology*; 9:801-804.
2. Ritika Chauhan and Jayanthi Abraham (2015). Evaluation of antimicrobial compounds from *Amycolatopsis decaplanina* JAR8 against various pathogens.

*International Journal of Pharmaceutical Sciences Review and Research*; 28:166-171.

3. Ritika Chauhan and Jayanthi Abraham (2015) Antimicrobial Activity of *Amycolatopsis Orientalis* JAR10 from Agricultural Field. *International Journal of Pharmaceutical Sciences and Research*; 6(2): 757-61.doi: 10.13040/IJPSR.0975-8232.6 (2).757-61.
4. Ritika Chauhan, Arpita Reddy and Jayanthi Abraham (2014). Biosynthesis of silver and zinc oxide nanoparticles using *Pichia fermentans* JA2 and their antimicrobial property. *Applied Nanoscience*; 5:63-71.
5. Ritika Chauhan, Anisha Navlekar, Enoch Ghosh and Jayanthi Abraham (2014). Screening and evaluation of antimicrobial agents from *Funaria* sp. against various pathogens. *Asian Journal of Pharmaceutical and Clinical research*; 7:84-87.
6. Ritika Chauhan, Jerusha Emmanuel and Jayanthi Abraham (2014). Production, characterization and molecular docking of mycophenolic acid by *Byssochlamys Nivea* strain JSR2. *International Journal of Pharmacy and Pharmaceutical sciences*; 6:227-230.
7. Ritika Chauhan, Mohammed Ibrahim, Shankar Narayanan and Jayanthi Abraham (2014). Cytotoxic effect on human osteosarcoma cell line MG-63 and antimicrobial activity on clinical pathogens by plant mediated silver nanoparticles. *World Journal of Pharmaceutical Research*; 4:1012-1027.
8. Danie Kingsley, Ravikumar G, Ritika Chauhan and Jayanthi Abraham (2014). Extraction and screening of bioactive metabolites from *Vigna mungo* against various pathogens. *International Journal of Pharmaceutical & Research Science*; 5(2): 428-431.
9. Ritika Chauhan and Jayanthi Abraham (2013). *In Vitro* Antimicrobial Potential of the Lichen *Parmotrema* sp. Extracts against Various Pathogens. *Iranian Journal of Basic Medical Sciences*; 16:882-885.
10. Danie Kingsley, Ritika Chauhan, Pamela Sinha and Jayanthi Abraham (2013). Screening and characterization of antimicrobial agents from *Sanseveria roxburghiana* and *Sanseveria trifasiata*. *Asian Journal of Plant Sciences*; 12:224-227.
11. Ritika Chauhan, Abhishek Kumar and Jayanthi Abraham (2013). A biological approach to synthesis of silver nanoparticles with *Streptomyces* sp JAR1 and its antimicrobial activity. *Scientia Pharmaceutica*; 81: 607-621. (Scopus Index, Impact factor: 1.088).
12. Ritika Chauhan and Jayanthi Abraham (2011). A comparative study of different inulin levels on quality parameters of synbiotic misti dahi. *Journal of Pure and Applied Microbiology* 5 (2), 977-982. (Thomson Reuters, Scopus Index, Impact factor-0.054, JCR rank: 5352, ISSN: 0973-7510).
13. Ritika Chauhan and Jayanthi Abraham (2011). Probiotics, prebiotics and synbiotics- Approaches modulating gut microbiota. *International Journal of Review in Life Sciences* 1 (4), 215-220 (ISSN: 2231-2935).

14. Ritika Chauhan, S. Silambarasan and Jayanthi Abraham (2011). Biodiversity of marine cyanobacteria and its antibacterial activity. *IJPI's Journal of Biotechnology and Biotherapeutics* 1:4, (ISSN: 2229 – 6824).

#### BOOK CHAPTER

- Ritika Chauhan and Jayanthi Abraham (2017). Bioprospecting of actinomycetes: Computational drug discovery approach. *Advances in Biotechnology*.
- Ritika Chauhan and Jayanthi Abraham (2013). Therapeutic importance of Actinomycetes and the threat to their diversity by Marine pollution. *Advances in Biotechnology and Ecological sciences*, pp 125-149

#### Gen Bank Submissions

- *Amycolatopsis orientalis* strain JAR10 16S ribosomal RNA gene, partial sequence (Accession no. KJ396080.1)
- *Amycolatopsis decaplanina* strain JAR8 16S ribosomal RNA gene, partial sequence (Accession no. KJ396079.1)
- *Serratia marcescens* strain JAR8 16S ribosomal RNA gene, partial sequence (Accession no. KF709428.1)
- *Streptomyces* sp. JAR6 16S ribosomal RNA gene, partial sequence (Accession no. KC842214.1)
- *Streptomyces parvulus* 16S ribosomal RNA gene, partial sequence (Accession no. KC842213.1)
- *Streptomyces xanthochromogenes* strain JAR5 16S ribosomal RNA gene, partial sequence (Accession no. KC509578.1)
- *Streptomyces toxytricini* strain JAR4 16S ribosomal RNA gene, partial sequence (Accession no. KC509577.1)

#### PROJECTS

- Worked on “**Streptomyces** sp. with **pharmaceutical and pharmacological applications**”.
- Six months research project “**Effect of Different Levels of Inulin on Quality Parameters of Synbiotic Misti Dahi**” at National Dairy Research Institute Karnal, under guidance of Dr. Chand Ram Sr. Scientist Dairy Microbiology. (Dec-2009 to May 2010).
- Training in “**Microbial techniques for assessing quality of dairy foods**” at National Dairy Research Institute Bangalore. (December 2007).
- Training programme in “**Molecular Biology and Recombinant Dna Technology**” at

Sangene Biotech Pvt Ltd Bangalore. (August 2006).

- Project on “**Microbiological testing of water**” at RANBAXY Laboratories Limited Mohali. (May 2006 to June 2006).

## CONFERENCES

- Participated and trained UG students in the workshop on “**Hands on training in Modern Biotechnology**” organized by department of Biotechnology held on 15<sup>th</sup> March 2016 at The Oxford College of Science, HSR Layout, Bangalore.
- **First Prize** in Poster Presentation at National Conference on “**New Opportunities and Challenges in Microbial Research**”, Bharathidasan University, Trichirappalli, Tamil Nadu. (5<sup>th</sup>-6<sup>th</sup> September 2013).
- Poster presentation at Microciencia 2012, SRM University, Chennai, Tamil Nadu, India on “**A study on production and optimization of laccase from *Pleurotus sajor-caju* and anthracene degradation**”.
- Poster presentation at CAMTech- India Medical Hackathon 2012, VIT University, Vellore, India on “**Rapid detection of ovarian cancer from immunized serum using a quartz crystal microbalance immunosensor**”.
- Poster presentation at AMI-2011, Punjab University, Chandigarh, India on “**A comparative study of different levels of inulin on quality parameters of misti dahi**”.
- Attended Annual Science Symposium on HIV 2009 at Scientific and Industrial Research Campus Chennai.
- Attended International Conference on Biotechnological Solutions For Environmentally Sustainability 2009 at VIT University Vellore.
- Attended National Conference on Biotechnology for Human Development 2009 organized by Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram.

## PERSONAL PROFILE

<b>Date of Birth</b>	14 Nov 1987.
<b>Father's Name</b>	Sh. Subash Chander Chauhan
<b>Marital</b>	Married
<b>Nationality</b>	Indian
<b>Sex</b>	Female
<b>Language Proficiency</b>	English, Hindi, Punjabi

## DECLARATION

I do hereby declare that the above information furnished is true to my knowledge.

**RITIKA CHAUHAN**