


RAM LAL ANAND COLLEGE (University of Delhi)

Faculty Details



Title	Dr.	First Name	Shalini	Last Name	Swami	Photograph
Designation	Assistant Professor					
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Residence						
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Educational Qualifications						
Degree	Institution				Year	
PhD	The University of Manchester, United Kingdom				2015	
MPhil	Jaipur National University, Jaipur, Rajasthan				2010	
MA/MSc	Gurukul Kangri University, Haridwar, Uttrakhand				2008	
Career Profile						
<ul style="list-style-type: none">• Assistant Professor Department of Microbiology, Ram Lal Anand College since 11th April 2023.• Assistant Professor (ad-hoc), Department of Microbiology, Ram Lal Anand College Since Jan 2018 till 10th April 2023.• Postdoctoral Researcher, Texas Agriculture & Mechanical University, Texas, USA Since 2015- 2017.						

Administrative Assignments
<ul style="list-style-type: none"> • Setting of question papers for UG/PG programs, Design and Development of Curriculum for Add on/ certificate/ Diploma Courses, Assessment /evaluation process of the affiliating University, since 2018 to present. • Member of Admission committee, Department of Microbiology, Ram Lal Anand College, University of Delhi. • Co-Convener of Ambedkar-Phule-Periyar Committee, Ram Lal Anand College, University of Delhi. • Member of Quiz committee, Ram Lal Anand College, University of Delhi. • Member of Student's Union Advisory Committee, Ram Lal Anand College, University of Delhi. • Member of Sub-Committee for Swachhata Action Plan-Implementation & Monitoring, Ram Lal Anand College, University of Delhi. • Member of Illusion Dance Society, Ram Lal Anand College, University of Delhi.
Areas of Interest / Specialization
Molecular Docking , Structural Biology, Protein Expression and Purification, Bioinformatics
Subjects Taught
<ul style="list-style-type: none"> • Medical Microbiology, Cell Biology, Biochemistry, Advances in Microbiology, Food Microbiology.
Research Guidance
<ul style="list-style-type: none"> • Supervised 12 undergraduate students of B.Sc. (Hons.) Microbiology on CRG project.
Publications Profile (Books/Chapters/Research articles, etc.) (Last 10 publications)
<ul style="list-style-type: none"> • Shelja Agarwal¹, Shreya Nayak¹, Kanika Bhoj¹, Aditi Panwar¹ and Shalini Swami*. Revolutionizing bioremediation with microbial nanotechnology. An emerging approach

towards environmental cleanup. 2023, Intechopen, London, UK. Accepted for Publication.

- Mohd Fardeen Husain shahanshah¹ , Saloni Jain¹ , Bhawna Sharma¹ , Ananya Grewal¹ and Shalini Swami* . Comparative Analysis of B.1.617.2 (Delta) Variant of SARS-CoV-2. Journal of Microbiology and Infectious Diseases, Jan 24, 2022.
- Saloni Jain¹ , Ishita Gupta¹ , Priyanshu Walia² and Shalini Swami* . Application of Actinobacteria in Agriculture, Nanotechnology and Bioremediation. DOI:<http://dx.doi.org/10.5772/intechopen.104385>.
- Raajvi Khurana¹ , Kanika Maurya¹ , Shalini Swami¹ and Sunila Hooda. Anticancer Compounds from selected Medicinal Plants: An update. Medicinal Plants: Ethnomedicine, Pharmacognosy and Therapeutic Values. DOI:<http://doi.org/10.31995/Book.AB220-A22>.Chapter11.
- Jude Chenge¹ , Duyete Van Li¹ , Shalini Swami¹ and Andrew W. Munro. Structural characterization and ligand/inhibitor identification provide functional insights into the Mycobacterium tuberculosis cytochrome P450 CYP126A1. Journal of Biological chemistry, Dec 10, 2016.
- Shalini Swami¹, Ragini Gupta² Mayank Rawat*: Bacteriophage lambda Adsorption inhibition by polyclonal antibodies against lamb protein Antigen of E.coli. Vet. Practitioner Vol 7 No. 2 Dec, 2006.
- Shalini Swami¹ , Navrinder Kaur² , Umesh Kumar³ and Ramesh Chandra*: Mechanism of action of anti-tubercular drugs: A systemic review. Archivos de Bronconeumologia.
- Abstract titled Swami, S. et al., Structural and biochemical studies of CYP143A1 from the human pathogen Mycobacterium tuberculosis published in 18th International conference on Cytochrome P450, 2013 held in Seattle, Washington United States of America.
- Abstract titled Swami, S. et al., Structural and biochemical characterization of CYP126A1 from the human pathogen Mycobacterium tuberculosis published in Tuberculosis 2012, conference held in September in Institute Pasteur, Paris, France.
- Abstract titled Swami, S. et al., Characterization of CYP126A1 from the human pathogen Mycobacterium tuberculosis published in 17th International conference on Cytochrome P450 in June 2011, Manchester, U.K.

- Challenges in SDG goals on health and nutrition in India held on 11 January, 2022, organized by Department of Microbiology, under DBT -Star College Scheme Dr. Kusum Rani Gupta Memorial Lecture on "Role of T cell in infection and immunity" held on 21 April, 2022, organized by Department of Microbiology, under DBT -Star College Scheme.
- Antibodies: Ek naam, Anek Kaam by Prof V K Chaudhary held on 25 February 2022, organized by Department of Microbiology, under DBT -Star College Scheme Online workshop "Holistic Fitness- boost your immunity and prevent illness" held on 23-24 June 2021 organized by Department of Microbiology, under DBT -Star College Scheme DBT Sponsored
- A Cancer awareness talk "Be Cancer Aware" was organized on 22nd March 2021 by Department of Microbiology, Ram Lal Anand College, University of Delhi in association with Rajiv Gandhi Cancer Institute and Research Centre.
- Alumni Talk: Online interaction with three outstanding Departmental Alumni of the Batch of 2014, by Department of Microbiology, Ram Lal Anand College, University of Delhi.
- Alumni Talk: Online interaction with three outstanding Departmental Alumni of the Batch of 2014, by Department of Microbiology, Ram Lal Anand College, University of Delhi.
- National Workshop on Molecular docking in drug design from 31st March to 1st April 2021, organized by Department of Microbiology, under DBT -Star College Scheme.
- Webinar on "Next Generation sequencing and metagenome analysis from 15th May-16th May 2020. International Seminar on "Nanoparticles in Biology" on 29th January 2020. National Seminar on "Metagenomics and Genome Editing" on 5-02-2020.
- Royal Society of Chemistry roadshow one day symposium held on 13th November, 2017 in Department of Chemistry, University of Delhi, New Delhi.
- 20th International Conference on Circadian Biology in May, 2015 in Texas Agriculture and Mechanical University, Texas, USA.
- 18th International conference on Cytochrome P450 in June, 2013 in University of Washington, Seattle, USA. Presented a poster. Participated in PhD. Research Conference organized by University of Manchester, UK in 2013.
- Presented a poster in International Ph.D. symposium held in University of Manchester 2012, U.K.
- Participated in Poster presentation in Tuberculosis 2012, conference held on September 11-15 in Institute Pasteur, Paris, France.
- Presented a Poster in an International seminar on "Biocatalysis and Protein Engineering" held in May, 2012 in Manchester Institute of Biotechnology, University of Manchester (UK).
- Participated in poster presentation in PhD research conference, May 2012, faculty of Life sciences, University of Manchester.
- 17th International conference on Cytochrome P450 in June, 2011 in Manchester. Presented a poster.

- Attended NMR workshop (NMR facility Manchester) organized by University Of Manchester in 2013.
- Participated in Biotech- Yes competition, 2013 organised by University of Nottingham,

Research Projects (Major Grants/Research Collaboration)

- College research Grant for students: 2023-2024 Department of Microbiology, “*Bacopa monnieri* and *Parmotrema perlatum* extract: LC-MS analysis to quest compounds having inhibitory activity against ESKAPE pathogen” Dr. Shalini Swami (Priyanka Sharma, Tanu Gupta, Aayushi Verma Hardik Singh Rathod, Sneha Singh).
- College research Grant for students: 2020-2022 Department of Microbiology Activity of different kind of biosorbents and biodegraders for primary treatment of waste water produced from laboratories- Dr. Shalini Swami PI, (Mohd. Fardeen Husain Shahanshah, Bhawana Sharma, Himanshu, Saloni Jain).

Awards and Distinctions

- Awardee of National Overseas Scholarship from Ministry of Social Justice and Empowerment, Government of India, New Delhi to pursue PhD. in Microbiology, under the supervision of Prof. Andrew W. Munro, from University of Manchester, United Kingdom

Association With Professional Bodies

- American Crystallography Society

Other Activities

- Hands on session on Fluorescence Microscopy held on 29 March 2022, Department of Microbiology, Ram Lal Anand College, under DBT -Star College Scheme, University of Delhi.
- Training session on Colony Counter held on 22 February 2022, Department of Microbiology, Ram Lal Anand College, under DBT -Star College Scheme, University of Delhi.
- Training Session on Anaerobic Gas Pak System held on 22 February 2022, Department of Microbiology, Ram Lal Anand College, under DBT -Star College Scheme