CURRICULUM VITAE



DEVESH SHARMA

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Career Objective:

To serve as an educator and researcher in a highly professional, challenging and creative environment with full of my potential where I can implement my technical and analytical skills for the benefits of the students and organization to get optimum output.

Recent Working Status:

Served as an ICMR-SRF in the Department of Biochemistry at ICMR-National JALMA Institute for Leprosy and Other Mycobacterial Diseases, Agra (UP) since 11th September 2017 and have registered for a PhD at Jiwaji University Gwalior (MP).

Academic Profile:

Examination Passed	Specialization	Board/Univ.	Year	Division
M. Sc.	Biotechnology	Amity University. Lucknow campus	2013	First
B. Sc.	Zoology, Botany, Chemistry	DBRAU, Agra	2010	Second
Intermediate	Physics, Biology, Chemistry Computer Sc., English	CBSE	2007	Second
High School	English, Hindi, Math, Science, Social Science	CBSE	2005	First

Technical Skill Set:

Technique learns	2-Dimensional electrophoresis, PAGE, AGE, REMA, Western blot, Gel filtration chromatography, Dialysis, DNA/RNA extraction, Gram staining, Plasma and serum solation, Protein purification, Competent cell preparation etc.
Instrument handling	Ultra-Centrifuge, BSL-3 lab, Autoclave, Spectrophotometer, PCR, Gel imager, Laminar air flow, 2D electrophoresis unit, qPCR.

Certifications / Training:

Certificate:

Honored with a certificate of appreciation on the achievement of completion of **1 lakh RT-PCR COVID-19 tests** throughout the course of the first and second waves at ICMR-NJIL & OMD, Agra

Conferences:

1. Attended the national symposium on "Animal Experimentation in Biomedical Research: Scientific & Ethical Perspective" held at National JALMA Institute for Leprosy and Other Mycobacterial Diseases, Agra from November 10-11, 2017.

2. Attended an international conference on "Future Diagnostic, Therapeutic and Theranostics Modalities" held at Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh from December 29-31, 2018.

3. Attended a virtual conference "OMICS- 2021" organized by Proteomic Society of India in collaboration with CSIR-CCMB, Hyderabad from October 20th-23rd, 2021.

Workshops:

1. Attended a workshop entitled "Biosafety & Biosecurity in Biomedical Laboratories" held at Department of microbiology & molecular biology, ICMR-NJIL & OMD, Agra from September 27^{th}-28^{th}, 2018.

2. Attended a workshop entitled "Bioinformatics and Computational Biology" held at SCFBIO, IIT Delhi, from June 14^{th} -20^{th}, 2019.

3. Attended an online workshop entitled "Hands-on Technical Workshop in Bioinformatics" organized by BDG Life Sciences, from August 18^{th}-24^{th}, 2020.

4. Attended an online workshop entitled "Genomics and Proteomics" organized by BDG Life Sciences, from December 22^{nd}-26^{th}, 2020.

5. Attended an online workshop entitled "in-silico Molecular biology & Genetic engineering" organized by BDG Life Sciences, from December 26^{th}-30^{th}, 2020.

6. Attended an online workshop entitled "working in BSL-3 laboratory and practices for handling *Mycobacterium tuberculosis*" organized by Department of Biochemistry, University of Delhi, south campus from march 22^{nd}-28^{th}, 2021.

7. Attended an online workshop organized by Merck IMTECH Chandigarh with AKS University Satna, on
    - Genome editing (May 17^{th} -11^{th}, 2021)
    - Mammalian cell culture (June 7^{th}-11^{th}, 2021)

- ❖ Realtime PCR and data analysis (June 21st -25th, 2021)
- ❖ Recombinant DNA technology (August 2nd-6th, 2021)

8. Attended an online workshop organized by Research graduate, on
   - ❖ Review paper writing: Basic to advanced guide for PhD scholars (June 13th, 2021)
   - ❖ Basic to advance guide on systematic literature review and metanalysis (Aug. 8th, 2021)

9. Attended an online workshop entitled "Proteomics Advanced Winter School (PAWS)-2021" organized by Proteomics lab, IIT Bombay from Nov. 8th -19th, 2021.
10. Attended an online workshop entitled "Drug Discovery with a focus on TB drug discovery" organized by Depart. of Biochemistry, University of Delhi South Campus from 24th - 27th May, 2022.
11. Attended an online workshop entitled "Computational system biology" organized by Biodeavour, from July 15th-August 3rd, 2022
12. Attended a SERB sponsored workshop entitled "Modern Immunological Techniques for Research in Life Science" organized by Immunology Section ICAR - Indian Veterinary Research Institute, Izatnagar, Bareilly from 12-21 December, 2022

Publications:

1) Recent insights into *Mycobacterium tuberculosis* through proteomics and implications for the clinic. Bisht D, **Sharma D**, Sharma D, Singh R Gupta VK. *Expert Review of Proteomics*. 2019;16(5):443-456.

2) Identification and differential expression of serotransferrin and apolipoprotein A-I in the plasma of HIV-1 patients treated with first-line antiretroviral therapy. Barik SK, Mohanty KK, Mohanty AK, Rawat P, Gopal G, Bisht D, Patil SA, Singh R, **Sharma D**, Tripathy SP, et al. *BMC Infect Dis*., 2020; 20(1):898.

3) Comparative evaluation of plasma protein purification and 2-D gel electrophoresis protocols for analysis of HIV-1 infected human plasma proteins. Barik SK, Varshney D, Mohanty KK, Bisht D, Patil SA, Singh R, **Sharma D**, Tripathy SP, et al. 2021. https://doi.org/10.1101/2021.03.03.433830

4) Insights into *Mycobacterium leprae* Proteomics and Biomarkers-An Overview. Gautam S, **Sharma D**, Goel A, Patil SA, Bisht D. *Proteomes*. 2021; 9(1):7.

5) Analysis of membrane proteins of streptomycin resistant *Mycobacterium tuberculosis* isolates. Singh R, **Sharma D**, Sharma D, Gupta MK, Bisht D. *Current proteomics.* 2022; 19.

6) Unraveling major proteins of *Mycobacterium tuberculosis* envelope. Singh R, **Sharma D**, Sharma D, S Gautam, Gupta MK, Bisht D. *Current proteomics*. 2022. doi: 10.2174/1570164619666220908141130

7) Emerging Hepatitis C Virus and neuron allied neuro-viral intertwine and its therapeutic expect. Mukerjee N, Chaudhari SY, Jha S, Sinha S, Jadhav SB, Dhar R, Rathod VD, Nanaware RB, Chakole RD, **Sharma D**, Sharma PP, Pawar SD, Ghosh A. *Int J Surg.* 2023; 109(6):1810-1812. doi: 10.1097/JS9.0000000000000074.

8) Wheat ergot fungus-derived and modified drug for inhibition of intracranial aneurysm rupture due to dysfunction of TLR-4 receptor in Alzheimer's disease. Debnath S, **Sharma D**, Chaudhari SY, Sharma R, Shaikh AA, Buchade RS et al., *PLoS One*. 2023; 18(1):e0279616. doi: 10.1371/journal.pone.0279616.

9) Analysis of Socioeconomic Condition and Bacillary Index with Respect to the Development of Hansen's Disease. Gautam S, **Sharma D**, Singh S, Arora M, Goel A, Bisht D. *Int J Mycobacteriol.* 2023. doi: 10.4103/ijmy.ijmy_108_23

10) Increscent journey of anti-leprosy drug development: A review. Gautam S, **Sharma D**, Singh S, Goel A, Gupta VK, Bisht D. *Current Science.* 2023.

Manuscript under Revision:

1. In-silico investigation on the inhibitory effect of compounds from essential oils of Boesenbergiarotunda on Sortase-A of *Streptococcus mutans*. 2023. S Afr J Bot.
2. Exploring the cell wall and secretory proteins of *Mycobacterium leprae* as biomarkers. 2023. Protein & Peptide Letters.
3. Identification of alpha 1B glycoprotein and haptoglobin 1 as probable biomarkers for early diagnosis of leprosy. 2023. The Protein Journal.

Book Chapter

Biochemical Aspects of Leprosy. Deo N, **Sharma D**, Bisht D, Gautam S, Patil SA. IAL Textbook of Leprosy ed. 3/e Jaypee Brothers Medical Publishers (P) Ltd. 2023. doi.org/10.5005/jp/books/18689_11

Patents

1. A Thermostable Peroxidase from Bael [Aegle marmelos (linn.) correa] and a method of isolation thereof. 2740/DEL/2012.
2. Computational approaches in altering the inhibition of acetylcholinesterase receptor in Alzheimer's disease treatment using Geranylgeraniol. (Application no. 202231060095); publication date: 04.11.22
3. Computational approaches in repurposing anti-high blood pressure drug, prazobind

that altering the inhibition of ROCK2 receptor in suppressing Amyloid-β production in Alzheimer's disease treatment. (Application no. 202221057066); publication date: 11.11.22

4. Novel anti-leishmanial plant derivative for effective alternative for Leishmaniasis: A computational approach. (Application no. 202331028860); publication date: 28.04. 2023

Achievements:

Qualified National level exams whose details are given below:

- ICMR JRF -2016 (roll no.-32160)
- GATE-2014 exam with 98 percentile and AIR-160 and also GATE-2015 with 98 percentiles in Life science.
- **CSIR UGC NET for LS-2014** with AIR-34 in Life science.
- **ASRB (ICAR) NET- 2014** exam in Agriculture biotechnology.
- JGEEBILS (TIFR GS)-2015 exam conducted in December 2014 (reference no.-46728).
- Online Test conducted by the BARC Training Schools for OCES/DGFS in March, 2015 and shortlisted for the Interview stage.

AREAS OF RESEARCH INTEREST:

- Proteomic approaches for the investigation of aminoglycosides-resistant *Mycobacterium tuberculosis* cell wall proteins
- Discovery of a biomarker for the early detection of leprosy
- Lipidomics of *Mycobacterium tuberculosis* cell wall

Key Competencies:

- Proactive attitude
- Ability to work under in different situation
- Self-Motivated and efficient in leading a Team
- Keen to learn and have creative mind

Personal Information

Father name	:	Mr. Ashok Kumar Sharma
Mother name	:	Mrs. Geeta Sharma
Marital Status	:	Single
Nationality	:	Indian
Date of Birth	:	5th Aug, 1989
Category	:	General
Languages Known	:	Hindi, English
Hobbies	:	Listening to music, Reading Books, Net Surfing and Playing cricket, chess

Declaration

I hereby declare that the particulars stated above are true to the best of my knowledge and belief.

PLACE: Agra (U.P)

DEVESH SHARMA