

# CURRICULUM VITAE

Dr. Deepesh Kumar Neelam  
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## EDUCATION

Ph.D., Microbiology, Central University of Rajasthan, Ajmer, Rajasthan, India, 2019

Dissertation: Diversity and bioprospects of culturable heterotrophic bacteria inhabiting in extreme environments of Rajasthan, India  
Major Advisor: Prof. Pawan K. Dadheech  
Co-Major Advisor: Dr. Akhil Agrawal

M.Sc., Industrial Microbiology, Amity University, Jaipur, India. 2012

Thesis: Maintenance of commercially important cultures for food & pharmaceutical sectors  
Major Advisor: Prof. (Dr.) A.N.Pathak

B.Sc., Biotechnology, St. Wilfred's P.G. College, University of Rajasthan, Jaipur, India. 2010.

## RESEARCH EXPERIENCE

**Senior Research Fellow**, Central University of Rajasthan, Ajmer, Rajasthan, India (2016-2019)  
Diversity and bioprospects of culturable heterotrophic bacteria inhabiting in extreme environments of Rajasthan, India

**Junior Research Fellow**, Central University of Rajasthan, Ajmer, Rajasthan, India (2013-2015)  
Diversity and bioprospects of culturable heterotrophic bacteria inhabiting in extreme environments of Rajasthan, India

## TEACHING EXPERIENCE

Assistant Professor, Department of Biological Sciences, JECRC University, Feb 2019 to present

Teaching major subjects to under graduate students (B.Sc. I,II,III,IV, V and VI semester) are BMI 010A/L/Sci-A-Immunology, BMI 011A/P/Sci-A- Immunology Lab, BMI 012A/L/Sci-A – Mycology , BMI 013A/P/Sci-A- Mycology Lab, BMI 026A/L/Sci-A- Environmental Microbiology, BMI 027A/P/Sci-A- Environmental Microbiology Lab, BMI 031A/L/Sci-A- Food Microbiology, BMI 032A/P/Sci-A- Food Microbiology Lab, BMI052A/L/Sci-A-IPR-Bioethics-Entrepreneurship BMI053A/P/Sci-A- , IPR-Bioethics-Entrepreneurship Lab, BMI 015A/L/Sci-A-Phycology and BMI 016A/P/Sci-A- Phycology Lab

Number of students - 70

**Teaching major subjects to master's students** (M.Sc. I,II and III semester) are MMI 001A/I/sci-a- Bacteriology, MMI 006A/I/sci-A-Fermentation Technology, Molecular Biology/ Immunology and Computer Lab/MMI 010A- Fermentation Technology Lab and MMI012A/I/sci-a- Genetic Engineering

Number of students - 16

## **HONORS, AWARDS AND ACHIEVEMENTS**

- 2020** IMRF Best Scientist Award given by IMRF Institute of Higher Education & Research, India
- 2017** Best poster presentation award in MEEDTA-2015 at Hemwati Nandan Bahuguna Garhwal University, Uttarakhand
- 2013** Proud receiver of Rajiv Gandhi National Fellowship by University Grant Commission (UGC) New Delhi, India
- 2013** Gold medallist in Post Graduation, Amity University, Rajasthan
- 2013** Best in technical innovation, Amity University, Rajasthan

## **PUBLICATIONS**

Sharma H, Pal J, **Neelam DK.** (2021) Bacterial Extracellular Polymers: A review. *Journal of Pure Applied Microbiology.* 1-11.

Rincón, V.M.V., **Neelam, D.K.** (2021) An overview on endophytic bacterial diversity habitat in vegetables and fruits. *Folia Microbiologica.* 1-11.

Sana S., **Neelam D.**, Gupta V., Devki and Rahi R (2021) An Overview: Application of Microorganisms in Bio-Mining of Metals *International Journal of Pharmacy and Biological Sciences*, 11 (1), 01-08.

Sharma K.P, **Neelam D**, Gupta V, Devki & Rahi R (2021). Yeasts In Human Well-Being. *International Journal of Recent Scientific Research*, 12 (1), 40469-40474.

**Neelam, D. K.**, Agrawal, A., Tomer, A. K., Shreetama, B., Sharma, A., Jagannadham, M. V., Mandal, C. C. & Dadheech, P. K. (2019). A *Piscibacillus* sp. Isolated from A Soda Lake Exhibits Anticancer Activity Against Breast Cancer MDA-MB-231 Cells. *Microorganisms* 7 (34), 1-16.

**Neelam, D. K.**, Agrawal, A., Tomer, A. K., & Dadheech, P. K. (2018). Characterization, phylogenetic analysis and potential applications of heterotrophic bacteria inhabit sand dunes of Thar Desert, India. *Journal of Pure and Applied Microbiology*, 12 (4), 1887-1898.

**Neelam, D. K.**, Agrawal, A., Tomer, A. K., & Dadheech, P. K. (2018). Characterization and Potential Applications of *Halovibrio Variabilis* MLA3 (A Heterotrophic Bacterium) Isolated from a Saline-Alkaline Lake of Rajasthan, India. *International Journal of Pharmacy and Biological Sciences*, 8 (4), 612-622.

Tomer, A. K., **Neelam, D. K.**, & Dadheech, P. K. (2018). Pigments Profiling of Non-Heterocystous Filamentous Cyanobacterial Taxa (Oscillatoriales) Inhabited in Biological Crusts and Soda Lake. *Vegetos-An International Journal of Plant Research*, 31(1), 43-50.

Tomer, A. K., Rahi, T., **Neelam, D. K.**, & Dadheech, P. K. (2019). Cyanobacterial extract-mediated synthesis of silver nanoparticles and their application in ammonia sensing. *International Microbiology*, 22(1), 49-58.

### **BOOK/BOOK CHAPTERS**

Devki, **Neelam D.**, Sudan J, and Kumar D. (2021) Advances in Microbes Use in Agricultural Biotechnology. In Crop Improvement, pp. 237-244. CRC Press

Book published: Pathak A. N., Bose D., **Neelam D. K.** (2012) on Preservation of commercially important cultures: Maintenance of commercially important cultures for food and pharmaceutical sectors by Lap Lambert Academic Publisher.

### **MANUSCRIPTS UNDER PREPARATION**

Sharma H and **Neelam DK.** (2021) Plastic degrading bacteria: urgent need of world

### **SCIENTIFIC PRESENTATIONS**

Attended online International Conference (2020) “Microplastic 2020”, on 30<sup>th</sup> June Organized by Vellore Institute of Technology, Vellore.

Attended online International Conference (2020) on “COVID-19 Biotechnology: A Way Forward”, on 30<sup>th</sup> April, Organized by Manipal University, Jaipur.

Attended one day workshop (2020) on “Biosafety Guidelines and Laboratory Practices (BGLP-2020)”, 8<sup>th</sup> February at JECRC University, Rajasthan, India.

Attended workshop (2019) on “Computer- Aided Drug Discovery”, 22<sup>th</sup> July-2<sup>nd</sup> August at Biotechnika Info Labs Pvt Ltd, Bangalore India.

Attended one day workshop (2019) on “Basic Tools in Bioinformatics”, 10<sup>th</sup> April at JECRC University, Rajasthan, India.

**Neelam, D. K.**, Agrawal, A. and Dadheech, P. K. (2017) Isolation and Identification of Thermostable  $\text{Ca}^{2+}$ -Independent  $\alpha$ -Amylase Producing Moderately Thermophilic Bacterial Strain from Sand Dunes of Thar Desert organized. 58<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI) and International Symposium on Microbes for Sustainable Development Scope Application (MSDSA), 16<sup>th</sup> to 19<sup>th</sup> November 2017 at Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh, India. (*Poster presentation*)

**Neelam, D. K.**, Agrawal, A. and Dadheech, P. K. (2015) Diversity and Applications of Culturable Extremophilic Bacteria Isolated from Thar Desert, Rajasthan. National Conference on Microbes in Extreme Environment: Diversity and Translational Applications (MEEDTA), 30-31<sup>st</sup> October 2015 Hemwati Nandan Bahuguna Garhwal University, Uttarakhand. (*Poster presentation*)

**Neelam, D. K.**, Agrawal, A. and Dadheech, P. K. (2015) Isolation, Characterization and Identification of Halo-Alkaliphilic *Piscibacillus* sp. C12A1 Isolated from Sambhar Lake of Rajasthan, India. 58<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI) and International Symposium on Emerging Discoveries in Microbiology, 7<sup>th</sup> to 10<sup>th</sup> December 2017 at Convention Center, JNU, New Delhi. (*Poster presentation*)

Attended workshop (2016) on “State Level Training Programme on Shodhganga and Anti Plagiarism Software (Urkund)”, 9<sup>th</sup> May 2016 at Central University, Rajasthan.

**Neelam, D. K.** (2011) Evaluation of Antibacterial Properties of *Leea Macrophylla* and its Pharmacological Components. Green Biotech: Recent Trends and Innovations, 12<sup>th</sup> -13<sup>th</sup> November 2011 at Amity University, Rajasthan. (*Poster presentation*)

Attended workshop (2010) on “Recent Advances in Clinical Research”, 20<sup>th</sup> September at Amity University, Rajasthan.

## **INVITED TALK AS SPEAKAR**

International Microorganism Day 2021, **Talk on Extremophiles**, organized by Federation of European Microbiological Societies (FEMS), Netherlands

## **PROFESSIONAL DEVELOPMENT**

Program at JECRC University, 20019 to present. Actively involved in the following components:

1. Teaching
2. Online/ Offline Talk Series national and international
2. Teaching and learning workshops
3. Counsellor
4. Admission Cell

## **RESEARCH MENTORING EXPERIENCE**

### **PhD. Scholar**

Hemlata Sharma, 2020-to present, PhD scholar doing work under my supervision, JECRC University

### **Post Graduation Students**

Mr. Mirdul, 2017-2019, M.Sc. Dissertation work submitted under my supervision (Current status: Executive-QC in INTAS Pharmaceutical Limited, Ahemdabad, Gujarat)

### **Graduation Students**

Mr. Victor Manuel Vasquez Rincon, Colombia, 2021. Dissertation work submitted under my supervision

Ms. Gaurvanshi Gupta, 2020 Dissertation work submitted under my supervision (Current status: M.Sc. Microbiology, Friedrich Schiller University, Germany)

Ms. Deeksha Dubey, 2020 Dissertation work submitted under my supervision (Current status: M.Sc. Manipal University, India)

Ms. Rakhi Setia, 2020 Dissertation work submitted under my supervision (Current status: M.Sc. JECRC University, India)

Ms. Somani, 2020 Dissertation work submitted under my supervision (Current status: M.Sc. Amity University, India)

Ms. Yogita, 2020 Dissertation work submitted under my supervision (Current status: M.Sc. Mahatma Ghandi Medical College, India)

Ms. Priyawarat, 2020 Dissertation work submitted under my supervision (Current status: preparing for Government Job)

Ms. Parishmita , 2019 Dissertation work submitted under my supervision (Current status: M.Sc., India)

Ms. Priya, 2019 Dissertation work submitted under my supervision

## **FACULTY DEVELOPMENT PROGRAM (FDP)**

Participated in 5 days National Level Faculty Development on Computational Biology held from 1<sup>st</sup> February to 5<sup>th</sup> February, 2021 organized by School of Computer Science and Engineering, REVA University, Bengaluru, India.

Participated in 5 days National Level Faculty Development/STTP-Short Term Training Program on Innovation Management from 15<sup>th</sup> – 19<sup>th</sup> February 2021 organized by Department of Management and Humanities NIT Arunachal Pradesh, sponsored by AICTE Govt. of India.

Participated on 12<sup>th</sup> February,2021 e-Faculty Development Programme on “Facilitation of Learning in Higher Education” organized by Internal Quality Assurance Cell (IQAC), IFTM University, Moradabad, Uttar Pradesh

### **MEMEBER OF EDITORIAL BOARD/PEER REVIEWR**

The International Journal of Pharma and Bio Sciences (**IJPBS**)

International Journal of Microbiology and Biotechnology (**IJMB**)

### **CONSULTANCY MEMBER**

Research Consultant member of **itlsacademy**, Lucknow, India

### **MEMBERSHIP**

Microbiology Society

### **REFERENCES**

Varsha Gupta, (Head of Department)  
Associate Professor, Department of Microbiology  
JECRC University Rajasthan  
Mobile No. +919351480730  
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Pawan K. Dadheech, (PhD Major Advisor)  
Professor Department of Microbiology  
Central University of Rajasthan  
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Akhil Agrawal, (PhD Co-Major Advisor)  
Assistant Professor Department of Microbiology  
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