

# Dr. Neha Faridi

A committed, knowledgeable and capable researcher. Highly experienced in project and strategic planning towards research.

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## EXPERIENCE

### Patanjali Research Insitute-Drug Discovery and Development Division, Patanjali Yogpeeth, Haridwar India.

March 2023-February 2024.

#### Research Associate

- Microbial Limit Test as per API, IP and USP 61,62 guidelines.
- Environmental Monitoring (EM) for Drug Discovery and Development Division.
- Evalutation of anti-microbial activity of herbal compounds (Hygrit, Putrajeevak, Vaginogrit). Minimum Inhibitory Concentration (MIC).
- Antimicrobial study in Gomaya Yagya Patram and Folliculitus.

### Sphaera Pharma Pvt. Ltd. Gurgaon India.

October 2021- April 2022

#### Research Associate

- Western Blotting, Transfection, Enzyme Assay, Cell lines A549.

### ICAR-NBFG Lucknow India.

June 2020-Feb 2021

#### Young Professional-2

- Worked under Project CRP Genomics Isolation of DNA, RNA and genes expression study in RTqPCR.

### DIBER, DRDO Haldwani, Nainital India.

April 2015-October 2019

#### Junior Research Fellow, Senior Research Fellow

- Microbial and Pathogenicity study in Bioweapons Project.
- Primer designing for the housekeeping genes.
- Multiplex PCR for the detection of *Ralstonia solanacearum*.
- qPCR for the detection of VBNC study.
- Detection of Live cells, VBNC cells and Dead Cell using different dyes in Fluorescence Microscopy.
- Molecular cloning, Transformation, Competence cells.
- Given Training to M.Sc. student (Manuscript writing, Thesis writing).

### CSIR, NBRI Lucknow India.

February 2014-July 2014

#### Junior Research Fellow

- Worked under project Bioremediation.

## EDUCATION

### DIBER, DRDO Haldwani, Nainital. registered Department of Biotechnology, Kumaun University Nainital.

MAY 2022

#### Ph.D

Thesis: Environmental Interaction on VBNC Form of Bacterial Wilt Causing Agent *Ralstonia Solanacearum* and its Detection.

### Department of Biotechnology Bhimtal, Kumaun University Nainital.

2011-2013

#### M.Sc (Microbiology)

Thesis: IAA Producing Bacterial and its PGPR Activity.

## SKILLS

- Expertise in Handling of Microorganisms, Microscopy, PCR, qPCR, Agarose Gel Electrophoresis.
- Microsoft Office, Scientific data retrieval from various portals like Sci-finder, Cross-ref, NCBI-PubMed, Science Direct, Scopus, Google scholar, Prism, Graph Pad. Manuscript Writing, Thesis writing.
- One-year advanced certificate course in information technology 2010.

## RESEARCH ACHIEVEMENTS

### 16s ribosomal RNA sequence of the isolated Ralstonia solanacearum strains have been submitted to NCBI.

Received the accession number. DIBER115 (MG266193), DIBER116 (MG266202), DIBER117 (MG266119), DIBER118 (MG266203), DIBER119 (MG266201), DIBER120 (MG266200).

### Successfully cloned and expressed recombinant proteins and cloned gene sequence have been submitted to NCBI.

Received the accession number MW759461, PRJNA715040, PRJNA719645, PRJNA719649.

## PUBLICATIONS

### Recent advances in immuno-based methods for the detection of Ralstonia solanacearum

January 2024

Journal of Microbiological Methods

Bhatt S, Faridi N, Raj SMP, Agarwal A, Punetha M. 217-218:106889. doi: 10.1016/j.mimet.2024.106889

### Development of antibody to virulence factor flagellin and its evaluation in screening Ralstonia pseudosolanacearum

January 2024

Brazilian Journal of Microbiology

Bhatt, Shalini, S. Merwyn P. Raj, Neha Faridi, Dinesh Pathak, Ankur Agarwal, and Shraddha P. Mishra. <https://doi.org/10.1007/s42770-023-01235-4>.

### Challenging and Emerging Problems in Nanomedicine Mediated Gene Therapy

2023

Wiley Publications

Bhatt S., Faridi N., Pathak, Punetha V, and Punetha M.

### First Report of Physico- Chemical Agents of Viable But Non Culturable (Vbnc) forms of Ralstonia pseudosolanacearum

2022

Journal of Pure Applied Microbiology.

Faridi N, Samuel M, Bhatt S, Agarwal A, Pande V, Bala M.

### Recent Advances in Agronomy

2022

Rubicon Publications

Singh Veerendra , Faridi Neha, Patel Anjali & Bhayankar Anjali

### Low Temperature Induces Infectious Nonresuscitatable VBNC Cells in Ralstonia Pseudosolanacearum

2021

Research Square

Faridi, Neha & Samuel, Merwyn & Bhatt, Shalini & Agrawal, Ankur & Pande, Veena & Bala, Madhu. (2021). [doo: 10.21203/rs.3.rs-312710/v1](https://doi.org/10.21203/rs.3.rs-312710/v1).

### Evaluation of Primer Specificity used for Detection and

2021

## Formation of Viable But Non-Culturable forms of *Ralstonia solanacearum*

Ecology Environment and Conservation.

Faridi N., Bhatt S., Merwyn P. Raj, Agarwal A., Mishra S. P., Pathak D., Pande V., and Bala M.pp. (S381- S385) ISSN 0971-765.

## Cloning, Expression and Specificity Evaluation of Type III Effector, Rip4 from *Ralstonia solanacearum*

2021

Ecology Environment and Conservation

Bhatt S., Faridi N., Merwyn P. Raj, Pathak D., Agarwal A., Rao P. T. V., and Bala M

## Effect of short-term hyper-ammonia exposure in Indian catfish, *Clarias magur* (Hamilton, 1822) on haematological parameters, tissues structure and gene expression profiles

2023

Indian Journal of Fisheries

ADITYA KUMAR, LABRECHAI MOG LABRECHAI MOG CHOWDHURY, RADHIKA RIMAL, Rajesh Kumar, Alisha Paul, Neha Faridi, Mridula Singh, Achal Singh, Vindhya Mohindra

## PROFESSIONAL DEVELOPMENT

### Gene Expression Analysis by Real Time PCR

14th -16th Dec 2016.

International workshop

South Asian University, New Delhi, India.

### 2nd Plant Proteomics workshop/training Programme

21st-26th Dec 2015.

University of Delhi (North campus)

Botany Department, New Delhi.

### Uttarakhand-A Modern Science State

February 24-28, 2013.

Department of Biotechnology, K.U. Nainital.

2nd State level science and technology youth festival sponsored by Uttarakhand Council of Science and Technology (UCOST), Dehradun.

### National training program "Structure and Sequence Bioinformatics".

March 22 to March 23, 2012

Department of Biotechnology, Kumaun University, Nainital.

Sponsored by DBT, Ministry of Science and Technology, Government of India, New Delhi.

## CONFERENCES (NATIONAL/INTERATIONAL)

### Studies on the Culturability of *Ralstonia pseudosolanacearum* Maintained in Water.

2018

ICMR Pune.

Faridi N., Merwyn P. Raj, Bhatt S., Agarwal A., Pande V. and Bala M 2018.

### Evaluation of prh gene for detecting VBNC forms of *Ralstonia pseudosolanacearum*.

2018

IMRF GOA

Faridi N., Merwyn P. Raj, Bhatt S., Mishra SP., Agarwal A., Pande V. and Bala M 2018.

### Specificity of PCR primers targeting housekeeping genes for detecting VBNC forms of *Ralstonia pseudosolanacearum*.

2018

NRCSS, AJMER.

Faridi N., Merwyn P. Raj, Bhatt S., Pathak D., Agarwal A., Pande V., and Bala M 2018.

## Evaluation of Primers for detecting VBNC Forms of Ralstonia solanacearum

2017

Association of Microbiologists of India (AMI) Lucknow.

Faridi N, Merwyn P. Raj, Bhatt S, Pathak D, Agarwal A, Pande V and Bala M. pp 289.

## Cloning and expression of flagellin gene of Ralstonia solanacearum.

2017

Microbes for Sustainable Development Scope & Applications (MSDSA).

Bhatt S, Merwyn P. Raj, Faridi N., Agarwal A, and Bala M. Pg.303

## Cloning & expression of Hypothetical gene from bacterial wilt pathogen Ralstonia pseudosolanacearum and its evaluation in immuno based detection

2018

International Conference on Microbiome Research-ICMR, Pune.

Bhatt S, Merwyn P. Raj, Faridi N., Agarwal A, Pathak D and Bala M.

## Evaluation of the polyclonal antibodies raised against the flagellin protein for immune detection of Ralstonia pseudosolanacearum.

2018

Climate Change and Adaptive Crop Protection, Ajmer.

Bhatt S, Merwyn P. Raj, Faridi N., Agarwal A, and Bala M Pg: 65-66.

## Evaluation of polyclonal antibodies raised against the whole cells of Ralstonia pseudosolanacearum for their specificity in immune detection

2018

International Conference on Recent Trends in Advanced Biology, Health and Environmental Sciences.

Bhatt S, Merwyn P. Raj, Faridi N., Mishra SP., Agarwal A., and Bala M. Pg: 87.

## A study on plant growth promotion and bio-control potential of Bacillus cereus strain DIB-76/BCS-19.

2018

IMRF Goa.

Mishra S.P., Arshi MA, Agarwal A, Merwyn P. Raj, Mishra A., Faridi N., Bhatt S. and Bala M. Dec 2018.

## AWARDS

### Young Researcher Award

2021

Green Agri Society.

3rd International Conference on Food, Agriculture and Innovations, Dhanbad India.

### Best Oral Presentation Award

2023

1st International Conference on Global Approches.

In Agriculture and Allied Sciences For Sustainability, Food Security And Allied Science Agra University, India.

## Defence Research and Development Organisation-DRDO

2015-2019

Ministry of Defence India

SRF, JRF

## REFERENCE

### 1. Dr. Ankur Agarwal

Scientist- 'E' DIBER, DRDO Haldwani, Nainital.

Email: ankur@diber.drdo.in Mobile no-09410347647.

## **2. Dr. Veena Pande**

'Professor' Department of Biotechnology Kumaun Universty, Nainital

Email: veena.biotech@gmail.com Mobile no-09412419725.