

Dr. Archana Yadav
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Resume Synopsis: Experienced Plant and Soil Microbiologist with specialization in Plant Microbe Interaction. Having Post-PhD, R&D/Industry Experience of more than 7.5 years.

Latest Professional Experience:

- Worked as **Associate Consultant in Oil and Natural Gas Corporation Limited (ONGC)** w.e.f. 05.09.2016 to 04.03.2020.
- I was a Category ‘A’, QCI – NABET Accredited Functional Area Expert (FAE) in Ecology and Biodiversity (EB).
- My job profile included carrying out Environment Impact Assessment (EIA) studies, preparation of EIA reports and submit the same to MoEFCC for obtaining EC.
- Had prepared around 30 EIA reports, reviewed around 50 EIA reports, during the period of engagement.
- Experience of Evaluating Ecology, Biodiversity and Environment related CSR proposals.

Academic Profile

- Certificate Course in **Corporate Social Responsibility (CSR)** from **Institute of Company Secretaries of India**.
- **Post Graduate Diploma in Environmental Law and Policy** from WWF, India and National Law University, Delhi in ‘A’ Grade.
- **PhD Awarded in Botany** from University of Lucknow & CSIR-NBRI on November 27, 2010 (in accordance with the UGC regulations of 2009 – NET exempted) under the Guidance of Late (**Prof.) P. K. Misra (Guide)**, Ex- Professor, Department of Botany, **University of Lucknow** and **Dr. C. S. Nautiyal (Co-Guide)**, **Ex-Director**, National Botanical Research Institute, Lucknow.
- **MSc. in Botany** from University of Lucknow with 65% marks in 2002.
- **BSc. Biology Group** from University of Lucknow with 65% in 1999.
- **Intermediate, Science (Biology Group)** from U.P. Board in 1996 with 67% marks & distinction in Biology & Chemistry.
- **High School, Science Group** from U.P. Board in 1994 with 76% marks & distinction in Hindi, Mathematics -2, Science – 2 and Biology.

PhD Thesis Title

Ecological and Molecular Characterization of Drought tolerant and Plant Growth promoting *Pseudomonas* species.

Brief of Research Work

Worked on abiotic stress tolerant plant growth promotion bacteria, plant microbe interactions, microbial communities interactions, bioinoculant formulation and economical carrier material development

Conferences Attended

- CMS-COP 13 held at Gandhinagar, Gujarat, India (Feb 15-22, 2020)
- PETROTECH 2019 held at IEML, Greater Noida (Feb 10-12, 2019)

Research Experience

Post - Doctoral –

- Worked as **“Young Scientist Fellow”** in Amity University, Noida on a project entitled **“Nanoparticles from plant growth promoting rhizobacteria for enhancing crop biomass”** under the Young Scientist Scheme of Council of Science & Technology, UP (UPCST).
- Worked as **CSIR-RA** in Amity University, Noida on project entitled ***“Beneficial plant growth promoting rhizobacteria mediated amelioration of crop productivity affected by drought & saline stress”*** w.e.f August 1, 2013 to March 31st, 2015.
- Worked as **CSIR-RA** in CSIR-National Botanical Research Institute, Lucknow on a project entitled ***“Beneficial plant growth promoting rhizobacteria mediated amelioration of crop productivity affected by drought & saline stress”*** w.e.f April 1, 2012 to July 31st, 2013.

Doctoral –

- Worked as **Project Assistant Level II** in a project titled “Exploration & Exploitation of Microbial Wealth of India” from April 1, 2006 to March 31, 2007, a Task Force sponsored project.
- Worked as **Project Assistant Level III** in a project titled “Exploration & Exploitation of Microbial Wealth of India” from February 17, 2005 to March 30, 2006, a Task Force sponsored project.
- Worked as **Project Fellow** in a project titled “Developmental Commercial bio-fertilizer and bio-pesticides: An application package for increasing Crop productivity by reducing plant diseases” from January 20, 2003 to February 1, 2005, funded by Department of Agriculture, Government of UP.

Awards and Accolades

- Recipient of **“Scientist of the Year Award”** in an International Conference on Advances and Innovations in Agriculture and Allied Sciences (AIAAS-2020) held on Jan 31-Feb 1, 2020 at JNU, Delhi.
- Recipient of **“Young Scientist Fellowship”** for the period **2015-2018**, under the Young Scientist Scheme of **Council of Science & Technology, UP (UPCST)** on a project

entitled “**Nanoparticles from plant growth promoting rhizobacteria for enhancing crop biomass**”

- Recipient of “**Young Scientist Award**” by Society of Scientific and Social Development on the occasion of National Conference on "Sustainable Agriculture Development through 'Biotechnological Techniques and its impact on food-Security, Human Welfare & Climate" held on Feb 28 & 'March 01, 2015 at Monad 'University, Hapur (U.P.)
- Recipient of "**CSIR Research Associate**" Fellowship, by Council of Scientific and Industrial Research (C.S.I.R.), Government of India (2012-2015).
- Recipient of **Best Poster Presenter in Afro-Asian Congress on Microbes for Human and Environmental Health (MICRO-BIOTECH-2014)** held from 29th September-1st October, 2014 at Amity Institute of Microbial Technology, Amity University, NOIDA, Uttar Pradesh.
- **Merit Scholarship** by U.P. Board, Allahabad for securing Honours (more than 75% marks in aggregate) in High School (1994-96).

Research Publications:

Research Articles -

- Suchi Srivastava **Archana Yadav** , Karishma Seem, Sandhya Mishra, Vasvi Chaudhary and C. S. Nautiyal - Effect of High Temperature on *Pseudomonas putida* NBRI0987 Biofilm Formation and Expression of Stress Sigma Factor RpoS Curr Microbiol (2008) 56:453–457 DOI 10.1007/s00284-008-9105-0 ISSN No. **0343-8651, Impact factor- 1.52**
- Suchi Srivastava, Vasvi Chaudhry, Aradhana Mishra, Puneet Singh Chauhan, Ateequr Rehman, **Archana Yadav**, Narendra Tuteja and Chandra Shekhar Nautiyal - Gene expression profiling through microarray analysis in Arabidopsis thaliana colonized by *Pseudomonas putida* MTCC5279, a plant growth promoting rhizobacterium Plant Signaling & Behavior 7:2, 235–245; February 2012; doi.org/10.4161/psb.18957 ISSN No. **1559-2324, Impact factor – 2.0**
- Shashi Prabha, S.K. Sahi, Renu Yadav, **Archana yadav** - Isolation and optimization of culture conditions for Poly-β-hydroxybutyrate (bio-polymer) producing bacteria, Issue March 2015, Journal of Global Biosciences, ISSN No. **2320-1355, Impact factor- 1.11**
- Neha Singh, **Archana Yadav** and Ajit Varma - Effect of plant growth promoting activity of rhizobacteria on Cluster bean (Cyamopsis tetragonoloba L.) plant growth and biochemical constituents; International Journal of Current Microbiology and Applied Sciences ISSN No.: **2319-7706** Volume 4 Number 5 (2015), **Impact factor- 2.015**
- **Archana Yadav**, T. Theivasanthi, P. K. Paul and K. C. Upadhyay – Extracellular biosynthesis of silver nanoparticles from Plant Growth Promoting Rhizobacteria *Pseudomonas* sp.; International Journal of Current Microbiology and Applied Sciences ISSN No.: **2319-7706** Volume 4 Number 8 (2015), **Impact factor- 2.015**

- Monika Choudhary, Anjali Malik, **Archana Yadav**, Naleeni Ramawat and Renu Yadav – Evaluation of Microbial Antibiotic and Commercial Antibiotic; Journal of Global Biosciences, ISSN No.: 2320-1355, Volume 5 Number 5 (2016), **Impact Factor – 1.1**

Scientific Presentation in Conferences

- Presented poster in National Conference on “**Microbial Diversity: Avenues and Applications**” held from March 17th -18th, 2007 at Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences & Research Balawala, Dehradun, Uttarakhand.
- Participated in National Conference on “**Earth and Environment: Pollution and Prevention**” held from January 28-30, 2014 at Amity Institute for Environmental Toxicology, Safety and Management, Amity University, NOIDA, Uttar Pradesh.
- Participated in **INDO-US Sponsored “International Congress-CUM-Workshop on IPR-2014”** held from January 29-31, 2014 at Amity Institute of Microbial Technology, Amity University, NOIDA, Uttar Pradesh.
- Presented Poster in **Afro-Asian Congress on Microbes for Human and Environmental Health (MICRO-BIOTECH-2014)** held from 29th September-1st October, 2014 at Amity Institute of Microbial Technology, Amity University, NOIDA, Uttar Pradesh.
- Participated in **INDO-ITALIAN workshop on “Food Technology and Cold Chain Management”** held from 26th-27th November, 2014 at Amity Institute of Microbial Technology, Amity University, NOIDA, Uttar Pradesh.
- Presented Poster in **1st International Conference on Sustainable Fuels for IC Engines in Emerging Nations** held from 2nd – 3rd February, 2015 at Taj Palace, New Delhi organized by TERI University and Ministry of New and Renewable Energy, Government of India.
- Presented Poster in **Young Researchers South Asian Symposium on Sustainable Development** held from 5th – 7th February, 2015 at TERI University, New Delhi.
- Participated in **National Workshop on Relevance of Microscopy in Microbial Characterization**, held at Amity Institute of Microbial Technology, AUUP, Noida is association with ICAR-NBAIM from August 11-14, 2015.
- Oral Presentation titled “Isolation in characterization of stress tolerant plant growth promoting *Pseudomonas plecoglossicida* NBRI 1310 from saline desert” in **Young Researchers Forum, Biotechnology-2015, 6th World Congress on Biotechnology**, held at New Delhi from October 05-07, 2015.

Personal Details

Date of Birth	:	April 26 th , 1979
Address for Correspondence	:	22 A, M.I.G Flats, Block GH-01 Sector-100, Noida – 201301.
Nationality	:	Indian
Gender	:	Female
Marital Status	:	Married