

CURRICULUM VITAE

PERSONAL DETAILS:

Name: Dr. Nidhi Tripathi

Professional Experience:

Nov 2017- Till Date: Assistant Professor in Chemistry, Anugrah Memorial College, A constituent Unit of Magadh University, Bodh Gaya



Address:

Postal Address: Dr. Nidhi Tripathi, Assistant Professor, Dept of Chemistry, Anugrah Memorial College, Katari Hill Road, Gaya, Bihar, Pin- 823 001.

Email Id.- nidhi02118@gmail.com

Academic Qualifications:

Course	Year of Passing	Institute Name	Board/University	Marks (%)/ CGPA
10 th level	2002	Rani Laxmi Bai Memorial Senior Secondary School, Lucknow	CBSE, New Delhi	70.40
12 th level	2004	Rani Laxmi Bai Memorial Senior Secondary School, Lucknow	CBSE, New Delhi	74.80
Bachelor of Science	2007	Bhavans Mehta College, Bharwari, Kaushambi	CSJM University, Kanpur	79.92
Master of Science (Chemistry)	2009	University of Lucknow	University of Lucknow	74.25
Ph.D. (Chemistry)	2019	University of Lucknow & ICAR-IISR, Lucknow	University of Lucknow	-

Area of Research:

Bio-organic Chemistry, PGR interventions in sugarcane, biological control, disease management through bioactive components, Site directed drug delivery, synthesis of novel drug molecules.

Thesis Title: “Gibberellic acid (GA₃) application for improving biomass accumulation and identification of bioactive agents for management of red rot disease in sugarcane”

Under Dr. Arun Sethi, Department of Chemistry, University of Lucknow, Lucknow, India and

Co-supervision of Dr. Pushpa Singh, Principal Scientist, Department of Biochemistry, ICAR (Indian Council of Agricultural Research)- Indian Institute of Sugarcane Research, Lucknow

Memberships: Indian Science Congress Association (Life Member)

Academic Achievements:

1. Topper of College and rank holder in B.Sc. exam at **CSJM University, Kanpur** in 2007.
2. Certificate of merit for obtaining 91/100 marks in Organic Chemistry in M.Sc. I Year Examination 2008 at University of Lucknow.
3. All India Rank 42nd in the selection of **Assistant Professor**, organized by **Bihar Public Service Commission (BPSC), Patna**.

Fellowships:

1. University Grant Commission (**UGC-2011**) National Eligibility Test, [**Junior Research Fellowship (July 2012-June 2014)** and subsequently **Senior Research Fellowship (July 2014-June 2017)**].

Research Experiences:

1. Ph. D. on ‘**Gibberellic acid (GA₃) application for improving biomass accumulation and identification of bioactive agents for management of red rot disease in sugarcane**’ Under **Dr. Arun Sethi, Department of Chemistry, University of Lucknow, Lucknow, India**.
2. Worked as **Visiting Researcher** at **College of Agriculture and Life Sciences (CALS), Seoul National University, Seoul, South Korea**, under guidance of **Professor Hae Jae Lee**.
3. Worked as Junior Research fellow in **Medicinal Chemistry Lab, Division of Industrial Chemistry, CSIR- Central Institute for Medicinal and Aromatic Plants (CIMAP), Lucknow**.

Expertise:

1. TLC (Thin Layer Chromatography)
2. Column Chromatography
3. Liquid extraction techniques
4. Gel Electrophoresis
5. LICOR Photosynthesis Measurements
6. PCR (Polymerase Chain reaction analysis)
7. Characterization Techniques like NMR, MASS, C-13 NMR, UV-Visible Spectroscopy

8. Analysis of data/ spectrograph (NMR, MASS, C-13 NMR, HRMS UV-Visible) received from analytical division in terms of structure elucidation.
9. Use of Spectrophotometric Techniques

Research Publication:

1. Deeksha Joshi, Pushpa Singh, A. K. Singh, T K Srivastava, **Nidhi Tripathi** " **Relative effects of different organic amendments on *Trichoderma* communities in soils under a sugarcane plant-ratoon agro-ecosystem**" Indian Journal of Sugarcane Technology 30(01) (2015) 32-38. [NAAS Rating- 2.70]
2. Deeksha Joshi, Pushpa Singh, A. K. Singh, R. J. Lal, **Nidhi Tripathi** "Antifungal Potential of Metabolites from *Trichoderma* sp. Against *Colletotrichum falcatum* Went Causing Red Rot of Sugarcane" Sugar Tech (2016) DOI 10.1007/s12355-015-0421-y.[IF-1.140]
3. Rama Kant Rai, **Nidhi Tripathi**, Deeksha Gautam, Pushpa Singh "Exogenous Application of *Ethrel* and Gibberellic Acid Stimulates Physiological Growth of Late Planted Sugarcane with Short Growth Period in Sub-tropical India" Journal of Plant Growth Regulation (2016) DOI 10.1007/s00344-016-9655-5. [IF- 2.96]
4. Pushpa Singh, **Nidhi Tripathi**, Deeksha Joshi, Arun Sethi. "Trichoderma Elicitors create a potential Chemical barrier through induced systemic resistance against *C.falcatum* and minimise sucrose losses in sugarcane". Journal of Plant Pathology (2018) DOI 10.1007/s42161-018-0034-x. Springer. [IF- 1.273]

Book/Chapters Published:

1. Shiv Ram Singh, Deeksha Joshi, **Nidhi Tripathi**, Pushpa Singh, and T. K. Srivastava "Plant Growth-Promoting Bacteria: An Emerging Tool for Sustainable Crop Production Under Salt Stress. In: Bioremediation of Salt Affected Soils: An Indian Perspective "Eds S. Arora et al. (eds.) (2017) 101-131, DOI 10.1007/978-3-319-48257-6_6. Springer.

Orientation Program:

1. Participated in the **81st Orientation Program, Patna University**, held between 24-11-2018 to 21-12-2018 and obtained **Grade A**.

Refresher Course :

1. Participated in UGC sponsored **Refresher Course on “Recent advances in Chemical Sciences”** organized by UGC-HRDC Dr Hari Singh Gour Vishwavidhyalaya, Sagar, M.P. held during 17th to 29th August 2020 and obtained **A⁺ grade**.

Teaching Experiences:

1. Worked as **Lecturer (Physical Chemistry)** at **National PG College, Lucknow, India** during session 2009-2010.
2. Worked as **Lecturer (Inorganic Chemistry)** at **NSN PG College, Lucknow, India** during session 2009-2010.

Teaching Courses:

B. Sc (Honours and Subsidiary) Courses at Department of Chemistry, Anugrah Memorial College, Gaya

Conferences/Seminars attended/Poster presented:

1. National Symposium on **“Application of analytical Techniques for characterization of Biomolecules”** 2nd & 3rd August 2008 at Malviya Hall, University of Lucknow, Lucknow organized by University of Lucknow, Lucknow and ISAS-DC, Delhi.
2. Presented a poster in National Conference On **“Women in Sugarcane, Agriculture and Industry”** 29th to 31st of August 2013, organized by **Indian Institute of Sugarcane Research, Lucknow in collaboration with ASTI, STAI, SSRP.**
3. **“Evolution to Revolution: National meet on modernization of Jaggery Industry in India”** organized by IISR and ASTI, Lucknow, Nov 01-02, 2014.
4. Participated in Two Day National Webinar entitled **“Empowering Chemistry Teachers for 21st Century Higher Education”** jointly organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD and St. John's College, Agra on 28 July 2020 to 29 July 2020. (This is equivalent to a regular National Seminar).
5. Participated in one Day National Webinar entitled **“Higher education reforms in National Education Policy-2020”** jointly organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National

- Mission on Teachers and Teaching (PMMMNTT) of MHRD and Shri Jagadguru Chandrashekhara Bharathi Memorial College, Shringeri, Karnataka on 4th September 2020 (This is equivalent to a regular National Seminar).
6. Participated in one Day National Webinar entitled “Technology Driven Higher- Education in India- Issues and Challenges” jointly organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD and Shri Jagadguru Chandrashekhara Bharathi Memorial College, Shringeri, Karnataka on 2nd September 2020 (This is equivalent to a regular National Seminar).
 7. Participated in One Day National Webinar entitled “Unravelling the National Education Policy 2020” organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD on 9th August 2020. (This is equivalent to a regular National Seminar).
 8. Participated in National Webinar on “Yoga and Wellness” hosted by UGC- Human Resource and Development Centre, B.R.A. Bihar University, Muzaffarpur on 31st August 2020.
 9. Participated in One Day Premium Lecture/National Webinar entitled “Curricula Reforms for 21st Century Higher Education” organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD on 26th July 2020. (This is equivalent to a regular National Seminar).
 10. Participated in Two day International Webinar held on 19th and 20th July 2020 on “Data Presentation in Research Article and its Publication” approved by UGC, New Delhi under Paramersh Scheme and Shivaji University, Kolhapur, Maharashtra organized by International Journal of Microbial Science.
 11. Participated in Two Day National Webinar entitled “Empowering Chemistry Teachers for 21st Century Higher- Education ” jointly organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD and St. John’s College, Agra on 28th July 2020 to 29th July 2020. (This is equivalent to a regular National Seminar).

12. Participated in Two Day Online National Workshop National entitled “Online Teaching-Learning using LMS- MOODLE” organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD on 17th-18th July 2020 (This is equivalent to a regular National Workshop).
13. Completed the Online Workshop entitled “Evidence based Teaching and Learning Strategies in Higher Education” from July 20th to July 22nd 2020 organized by CREATES, IISER, Bhopal under PMMMNTT Scheme of MHRD.
14. Participated in one day National Webinar on “COVID-19: Challenges and opportunities” organised by Economics Department of A.M. College, Gaya on 14th June 2020.
15. Participated in the International Webinar on “THE IMPLEMENTER ROLE OF CHEMICAL AND BIOLOGICAL SCIENCES IN CONFLICT CONTRARY TO COVID-19” organized by Department of Chemistry, H.K.E Society’s, Shri Prabhu Arts, Science and J. M. Bohra Commerce Degree College, Shorapur, Karnataka-India held on 29th January 2021.

Quizzes

16. Participated and scored 96% in “Chemistry Quiz” organized by PG Department of Chemistry, Magadh University, Bodh Gaya on 02-06-2020.
17. Participated and successfully completed Online Quiz and Awareness program on science and COVID -19 organized by Jawaharlal Nehru College, Ara (Veer Kunwar Singh University, Ara on 26-05-2020 with score of 100 %.
18. Participated and successfully completed Online Quiz and Awareness program on “COVID -19 and Related Chemistry” organized by Department of Chemistry, Nitishwer Mahavidhyalaya, Muzaffarpur with score of 100 %.

Events Organized:

Key Resource person in National Conference on “**Women in Sugarcane, Agriculture and Industry**” 29th 30th and 31st of August 2013, organized by ICAR- Indian Institute of Sugarcane Research, Lucknow in collaboration with ASTI, STAI, SSRP.

Positions Held at College:

1. Girl's Hostel Superintendent (October 2020)
2. NCC Programme officer (July, 2019)
3. Students Grievance redressal Cell (March, 2019)
4. Sports and Cultural Committee (March, 2019)

Declaration:

I do hereby declare that all the above statements and information are true according to best of my knowledge, and nothing is concealed.

24th March, 2021

Gaya

Dr. Nidhi Tripathi