

RESUME

DR. DINESH CHANDRA SHARMA

Ph.D. (Microbiology)

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Academic Qualification

- **Ph.D. (Microbiology)** from Integral University, Lucknow, 2017.
(Degree obtained according to the UGC regulations 2009, 2016 which stated the NET exemption category)
- **M.Sc. (Microbiology-73.00%)**, from Integral University Lucknow, 2009.
- **B.Sc. (Chemistry, Botany & Zoology-59.66%)** from M J P R University, Bareilly, 2006.

Teaching experience:

- Currently, I am working as **Assistant Professor** in Microbiology department at **BFIT Group of Institution, Dehradun (Uttarakhand)** Since 20th August 2018.
- Worked as a **Assistant Professor** in Microbiology Department at **Uttanchal College of Science and Technology, Dehradun (Uttarakhand)** From 1st August 2017 to 30th May 2018.
- Worked as a **Teaching Assistant** (Adhoc basis) in the Department of Biosciences (B.Sc. and M.Sc. Biotech. And Microbiology), Integral University, Lucknow from July 2014 to May 2017).

Industrial experience:

- Worked as a Microbiologist in Q.C. Lab, at **G. Surgiwear Ltd, Shahjahanpur** since 5th February 2010 to 4th September 2012.

Professional Training and Experiences:

- Worked as a SRF in CST funded project entitled “**Preclinical Evaluation of Purified Bioactive Compounds and their Nanoformulations from *Boerhaavia diffusa* (Linn) Root Extract**” from 2013 to 2014.
- One month project work on “*Production of Biofertilizers and Biocomposting*” at **U P Council of sugarcane research, Shahjahanpur.**

- Three months project work on “*Good Manufacturing Practices Requirement for Sterile Product Production*” at **Dabur India Limited, Ghaziabad, U.P.**

IT Skills:

- Six months certificate in computer application.
Operating System : Windows 98, win 7, XP.
Office Tools : MS Word, MS Excel, MS PowerPoint

Area of Research:

- **Phytomedicine:** Isolation of potent phytocompounds from Indian herbs and plants for the development of new scaffold of drugs to minimize the diabetes, inflammation and immune- modulation.
- **Diversity Study:** Demonstrate the morphological effect of environmental conditions on plant species. The diversity analysis was also determined by molecular characterization by PCR method.
- **Nanotechnology:** Use of nano-particles for increasing drug efficiency to cure various disorders with minimizing drug side effects.
- **Microbiology:** Isolation and characterization of various microorganisms from soil, water food products and human-animal sources.
- **Post-harvest Management:** Use of various techniques to increase self life of fruits and vegetables for their long sustainable storage.

Research Experience:

During the period I have carried out following research work:

- Plant morphological and anatomical study.
- Extraction of bioactive compounds from plant parts.
- Biochemical Characterization and Purification of compounds.
- Compound identification by GCMS and LCMS analysis.
- DNA Isolation and characterization via RAPD-PCR analysis.
- Synthesis of Gold and Silver nano-particles, drug conjugation, characterization and application.
- *In vitro* and *in-vivo* anti-diabetic, antioxidant and anti-cancerous study.
- MIC Determination of bioactive compounds against microbes.
- Analysis of compound efficiency for selective potential using computational biology tools such as AutoDock, Cygwin, Discovery Studio etc.
- Post harvesting quality management of fruits.

- Isolation, identification and preparation of bacterial and fungal cultures.
- Production of bio-composting and bio-fertilizer.

Publications (Abstract and Research articles):

- Shukla, R., **Sharma, D. C.**, Pathak, N., & Bajpai, P. (2016). Genomic DNA Isolation from High Polyphenolic Content *Grewia asiatica* L. Leaf without Using Liquid Nitrogen. *Iranian Journal of Science and Technology, Transactions A: Science*, 1-5.
- **Sharma, D. C.**, Shukla, R., Ali, J., Sharma, S., Bajpai, P., Pathak, N. (2016). Phytochemical evaluation, antioxidant assay, antibacterial activity and determination of cell viability (j774 and thp1 alpha cell lines) of *P. sylvestris* leaf crude and methanol purified fractions. *EXCLI J.*, 15, 85-94.
- Shukla R, **Sharma D.C.**, Pathak N. and Bajpai, P. (2016) “Estimation of phytochemicals and *in-vitro* antioxidant activity of different solvent extracts of *Grewia asiatica* fruit” *Botanical Sciences*, 5(3), 43-49
- Shukla R, **Sharma D.C.**, Pathak N. and Bajpai, P. (2016) “Comparative evaluation of various flower extracts of *Grewia asiatica* for phyto-compounds and antibacterial efficacy” *International Journal of Advanced Biotechnology and Research*, 7(3), 1291-1299.
- Shukla, R., **Sharma, D. C.**, Bano, S., Roy, S., Kamal, M. A. (2016). Antioxidant, Antimicrobial Activity and Medicinal Properties of *Grewia asiatica* L. *Medicinal Chemistry*, 12, 80-90.
- **Sharma, D.C.**, Khan, M., S., Khan, M., Salman, Srivastava, R., Srivastava, A. K., **Shukla, R.** (2014). A report on biocompounds from palm fossil of India. *Bioinformation*, 10(5), 316-319.
- Jasarat Ali, Chhedi Lal Gupta, **Dinesh Chandra Sharma**, Preeti Bajpai, Neelam Pathak. (2016). An in silico approach towards crop improvement by ACC synthase inhibition to declining ethylene production” *Current Enzyme Inhibition*. Bentham Sciences (Ahead from Print).
- **Sharma, D. C.**, Shukla, R., Sharma, S., Bajpai, P., Pathak, N. (2017). *Phoenix sylvestris* leaf extract: An *In-silico* study of alpha amylase inhibition involved in Diabetes. **National Seminar on Innovations & Challenges in Basic & Applied Sciences. March 04, 2017 at Maharaja Agrasen University, Solan, Himanchal Pradesh . (Abstract)**
- **Sharma, D. C.**, Shukla, R., Sharma, S., Bajpai, P., Pathak, N. (2017). **An *In-silico* Evaluation of Phytochemicals from *Phoenix sylvestris* for antidiabetic assay” National conference on Biodegradation of wild life, environment and biodiversity at G. F. College, Shahjahanpur. March 19th 20th, 2017 (Poster presentation)**
- **Sharma, D. C.**, Shukla, R., Sharma, S., Bajpai, P., Pathak, N. (2016). A correlative study of total phenolic and flavonoids content of *Phoenix sylvestris* fruit responsible for free radical scavenging activity. *Advances in Plant Science Frontier: Development and Environment, At Shahjahanpur (UP), 26th-27th November 2016. (Abstract)*

- Shukla R, **Sharma D.C.**, Pathak N. and Bajpai, P. (2016). ‘Phytochemical evaluation of different polarity extracts of *Grewia asiatica* flower and their anti-bacterial efficacy’. **Advances in Plant Science Frontier: Development and Environment, At Shahjahanpur (UP), 26th-27th November 2016. (Abstract)**
- **Sharma, D. C.**, Shukla, R., Sharma, S., Bajpai, P., Pathak, N. (2015). Evaluation of phytochemicals, free radical scavenging and antibacterial activity of *Phoenix sylvestris*. **International Conference on Medicinal Plants: Resource for Affordable New Generation Healthcare 2015. CIMAP (Abstract)**
- Shukla, R., **Sharma, D. C.**, Bajpai, P., Pathak, N. (2015). Identification and characterization of phytochemical compounds from *Grewia asiatica*. **International Conference on Medicinal Plants: Resource for Affordable New Generation Healthcare 2015. CIMAP (Abstract)**
- **Sharma, D. C.**, Shukla, R., Singh, A., Naureen, S., Sharma, S., Bajpai, P., Pathak, N. (2015). Isolation and identification of partially purified compounds for free radical scavenging activity from *Phoenix sylvestris*. **National Level Conference on Nano-sciences, Nano-toxicology and Nano-informatics present and future prospective-2015. (Abstract)**
- **Sharma, D. C.**, Shukla, R., Tiwari, R., Shukla, S. Sharma, S., Bajpai, P., Pathak, N. (2015). Increasing shelf life of fruits by using nanotechnology. **National Level Conference on Nano-sciences, Nano-toxicology and Nano-informatics present and future prospective-2015. (Abstract)**
- **Sharma, D. C.**, Shukla, R., Khan, M. Sajid., Khan, M. Salman, Srivastava, R., Srivastava, A. K. (2013). First report of biocompound from fossil plant of India. **Symposium on recent advances in biochemistry and biotechnology, Lucknow University, Lucknow, 29-30 Oct. 2013 (Abstract).**
- **Sharma, D. C.**, Shukla, R., Khan, M. S., Khan, M. Salman., Srivastava, R., Srivastava, A. K., (2014). Biochemical Potential of Indian Date Palm, *Phoenix sylvestris* Roxb. Accepted for presentation in (FARB-2014) Fundamental and Applied Research in Biology. **The 3rd International conference of young scientists at Donetsk National University, Donetsk, Ukraine, February 24-27, 2014. (Abstract).**

Book Chapters: 01

- Jasarat Ali, **Dinesh Chandra Sharma**, Anmol Gupta, Swati Sharma, Preeti Bajpai and Neelam Pathak. “Exploiting microbial enzymes for augmenting crop production” in book titled “Enzymes and Food Biotechnology” to be published by ELSEVIER in 2018. (Accepted).

Workshops/Conferences:

- Presented paper entitled **“In-silico evaluation of phytochemicals for anti-diabetic property”** at **Maharaja Agrasen University, Solan (Himanchal Pradesh)** on 4-03-2017.
- Attended **‘National workshop and training programme on “Computational approaches in Biotechnology”** at **Bioinformatics Centre, ICAR- Indian Veterinary Research Institute, Izatnagar** from 6th-10th February, 2017.
- Attended **‘Symposium and workshop on scientific skill development at Department of molecular medicine and Biotechnology, SGPGI, Lucknow** from 29th-30th March, 2016.
- Attended workshop on **“Basics of Flow Cytometry”** at Department of Biosciences, Integral University, Lucknow (Organized by BD Life Sciences), on 13th December 2016.
- Attended **‘International Congress on Post-Harvest Technologies of Agricultural Produce for Sustainable Food and Nutritional Security’** at **Integral University, Lucknow** on 10th-12th November, 2016.
- National Workshop on **“Small molecule analysis by NMR Spectroscopy and spectrometry”** from 16-18 March 2016 at **CSIR-CDRI, Lucknow**
- One day Symposium on **“Drug, Discovery in India: Past, Present and Future”**. 01st January 2015. **CSIR-CDRI, Lucknow**.
- National Level Workshop on Nanomedicine (NWN2014) on **“Role of Nanomedicines as therapeutic agents against multi drug resistant pathogens”**. 7-9 march 2014, **Department of Biosciences, Integral University, Lucknow**.
- National level workshop on **“Intellectual Property System: India Today and Tomorrow”**, 10 January 2014, **Integral University, Lucknow**.
- Attended **“National Level Workshop on Fundamentals of Nanosciences and Biotechnology”** organized by **Department of Nanobiotechnology, Life Science Foundation India, Karnataka, from 28th– 30th January 2013**.
- Symposium on **“Recent Advances in Biochemistry and Biotechnology: Applications in Health, Environment and Agriculture”**, 29-31 October 2013, **Department of Biochemistry, Lucknow University**.
- National level Conference on **“Nanosciences and Biotechnology-Present and Future Prospectives”**, 20 April 2013, at **Integral University, Lucknow**.
- Science Expo, Feb 2013, **Regional Science City, Lucknow**
- National level workshop on **“Fundamentals of Nanosciences and Biotechnology”**, 28 - 30 January, 2013. Organized by **Department of Nanobiotechnology, Life Sciences Foundation of India, Karnataka at Integral University**.

Volunteer/ Appreciations:

- Worked as **Assistant Examination controller** to conduct HNB University, final exams for the session 2017-2018.
- Reviewer of various national research journals.
- Appreciated for volunteering the organization of **International Conference on Biotechnological advancements in Free Radical Biology and Medicine (ICBAFM)** at Integral University Lucknow from 23rd – 25th January, 2017.
- Appreciated for volunteering the organization of **International Conference on Biotechnological advancements in Free Radical Biology and Medicine (ICBAFM)** at Integral University Lucknow from 14th – 16th November, 2015.

• Personal Information:

Father's Name	Mr. D. C. Sharma
Date of Birth	01/10/1985
Nationality	Indian
Marital Status	Married
Language known	English, Hindi
Permanent Address	27, Bi. Bi, Zai Haddef, Behind Kaushal Nursing Home, Shahjahanpur-242001 (UP)

References

- 1. Prof. (Dr.) Neelam Pathak,**
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- 2. Dr. Swati Sharma**
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- 3. Dr. Mohd. Aslam**
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- 4. Dr. Mohd. Sajid Khan**
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Declaration:

I hereby declare that all the information given above is correct in the best of my knowledge and belief

Date: 09- 12-2018
Place: Dehradun

(Dinesh Chandra Sharma)