



# JYOTI SHARMA

## Research Assistant-DST-CURIE Research Head-IAMT

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Dhoom Manikpur, Dadri, Gautam Buddha Nagar, U.P.

## EDUCATION

- Ph.D. in Zoology (Ongoing)**  
Galgotias University (2023–Present)
- M.Sc. Zoology (Cytogenetics)**  
CCS University, U.P. (2022)
- B.Sc. Life Sciences**  
IGNOU (2019)

## SKILLS

- Music Therapy expert
- ECG, EEG, GSR, BP, Biochemistry
- Lab Techniques
- Excel, PPT, Word
- Molecular Biology Techniques (PCR, Gel Electrophoresis, etc)
- Hemato-biochemical assays
- Scientific data analysis
- Research methodologies in zoology
- Research Design and Documentation

## HOBBIES AND INTERESTS

- Creative Writing (Poetry)
- Semi-Classical and Contemporary Dance
- Art and Craft
- Scientific Illustration and Creative Presentation
- Cultural Participation and Event Coordination

## LANGUAGE

- English
- Hindi

## ORCID ID

- 0009-0001-2863-8896

## About Me

A passionate Ph.D. researcher in Zoology at Galgotias University, specializing in the therapeutic applications of music through interdisciplinary research spanning biochemistry, psychology, and molecular biology. I aim to advance evidence-based practices in music therapy by scientifically exploring its impact on cardiovascular, neuroendocrine, and psychological health. Adept in scientific documentation, biofeedback, and hemato-biochemical analysis, I strive to bridge tradition with innovation through sound science.

## Work Experience

### Research Assistant (2024-Cont)

- DST-CURIE Project, K.M. Govt. Girls P.G. College, Badalpur-Present
- Duties : Conducting interdisciplinary research on music therapy using biochemical and psychological tools. Data collection, scientific analysis, and report preparation under DST-CURIE project.

### Research Head (2022-cont.)

- Indian Association of Music Therapy (IAMT), Delhi– Present
- Duties : Supporting research, academic content development, and outreach in music therapy. Conduct Certificate course in Bio-musicology

### Research Assistant (Jan 2023- July 2023)

- Govt.-Sponsored Research Project, Dept. of Zoology, Badalpur [6 Months]
- Duties: Worked on Vedic chants and sound therapy for cardiovascular and neuroendocrine health. Conducted hemato-biochemical assays and Relax-701-based biofeedback studies.

## Conferences, events & Workshops

- Guest member in Open Samvaad, held on Kala Mahotsav, National Craft Museum, New Delhi (2025)
- 1-Week Hands-on Workshop on Human Cancer Cell Culture Techniques and MTT Assay : ICSCCB (2025)
- FDP-cum-RSDP – Recent Techniques in Biotechnology and Biomedical Sciences (2025)
- Speaker, Workshop on Music Therapy – Galgotias University (2024)

### Conferences and Seminar Attended:

- 47th BANGKOK International Congress on “Advances in Chemical, Biological & Environmental Engineering”(ACBEE-26) (2026) Bangkok (Thailand):Presented Paper
- International conference on Environmental Impact on Woman’s Health, KMGGPGC Badalpur (2026): Presented Paper
- 9th International Conference on Advances in Biosciences and Biotechnology (ICABB-2026), Jaypee Institute of Information Technology, Noida.: Presented paper
- International seminar on Scientific Writing and Publication: Bridging Research and Readership (2025): Presented Paper
- National Conf. on Transgender Community, KMGGPGC Badalpur (2025): Presented Paper
- Seminar on Functional Biology, CCS University (2025): Presented Paper
- Intl. Seminar on Environmental Issues, GKSVV Haridwar (2025): Presented Paper
- TMAT Intl. Conference, Singapore (2025): Presented Paper

## Patent

A vibroacoustic bra for modulation of breast tissue and a method thereof (20251119398)

## Travel Grants

CSIR Foreign Travel Grant, Ref no. TG/13285/25-HRD

## Teaching and Reserach work

- Taking UG/PG Classes at KMGGPGC
- Taking Bio-musicology classes of IAMT

## Awards and Achievements

- Best Oral Paper Presentation at 47th BANGKOK International Congress on “Advances in Chemical, Biological & Environmental Engineering”(ACBEE-26) scheduled on March 23-25, 2026 Bangkok (Thailand)
- Research Assistant Award, DST-CURIE, 2025
- Radha Krishnan Scientists Fellowship, 1st TAMT International Conference, 2024
- Honored as Manikarnika, 5th Surtaal Festival, Ministry of Culture, Govt. of India
- Multiple prizes in inter-college competitions for poetry, dance, painting, extempore, and video making (2022)

## Publication

- Sharma, J., Kesri, J., and Sharma, D. C. (2026). Impact of Raga Bhairavi on comparative testosterone - cortisol stress balance in CAPFs personnel. In *Harmonic healing: The science, tradition, and future of music therapy* (pp. 7–11). Pilares D'Elegância, Lda. ISBN: 978-989-9121-65-2. : Communication
- **Sharma, J.**, and Sharma, D. C. (2026). Music as auditory enrichment in rats and mice: A review of neurobehavioral, endocrine, and disease-modifying effects. In *Harmonic healing: The science, tradition, and future of music therapy* (pp. 1–6). Pilares D'Elegância, Lda. ISBN: 978-989-9121-65-2.
- **Sharma, J.**, and Sharma, D. C. (2025). The physiological influence of Shiv Strotam: Examining its effects on blood pressure and pulse rate through spiritual chanting. In *Harmonic healing: The science, tradition, and future of music therapy* (pp. 63–70). Cambridge Scholars Publishing.
- Arora, S., Zehra, S., Singh, N., **Sharma, J.**, and Sharma, D. C. (2025). Nature’s symphony: The role of eco-acoustics in enhancing well-being in college students through natural soundscapes. *Journal of Experimental Zoology India*, 28, 611–618. <https://doi.org/10.51470/jez.2025.28.1.611>
- Sharma, D.C., Zehra, S., Singh, N., **Sharma, J.**, Himanshi, Mailk, A. (2024) The therapeutic potential of music: A comprehensive review. *Prajnana*, 15, 7–13. <https://doi.org/10.59467/PJ.2024.15.7>
- Singh, N., Sofar, **Sharma, J.** (2024) Biological Warfare: Evolution, Emerging Risks, and the Role of Science in Global Security. *World J. App. Sci. Res.* 14, 43-47. (DOI: <https://doi.org/10.59467/WJASR.2024.14.43>)
- Himanshi, Sharma, D.C., Singh, N., Zehra, S. and **Sharma, J.** (2024) Neuro Musicology: Unraveling the Effects of Music on the Brain and Nervous System. *World J. App. Sci. Res.* 14, 27-33. (DOI: <https://doi.org/10.59467/WJASR.2024.14.27>)
- Sharma, D., **Sharma, J.**, Singh, N., & Zehra, S. (2024). Impact analysis of Shiv Strotam on blood pressure and pulse rate. *Biochemical and Cellular Archives*, 24, 737–740. <https://doi.org/10.51470/bca.2024.24.1.737>
- Singh, N., Khari, S. **Sharma, J.**, Jaiswal, A. and Sharma, D.C. (2023) A Cross-Sectional Study on Snacking Habits, Stress Levels, and Physical Activity among College Students Aged 18–25. *Prajnana*, 13-14, 1–13. (<https://doi.org/10.59467/PJ.2022-23.13-14.1>)
- Singh, N., Chaudhary, M., **Sharma, J.**, & Malik, A. (2022–23). Survey on effects of the pandemic on human mental health. *World Journal of Advanced Scientific Research*, 12-13(01-02), 25.

## Research Work

- Research on the impact of Vedic chants and pleasant sounds in treatment of cardiovascular and neuroendocrine disorders through hemato-biochemical assays.
- Studying stress regulation through Vedic chant recitation combined with biofeedback analysis of students.
- Engaged in interdisciplinary research under DST-CURIE project on music therapy.

## Professional Memberships

- Member, Indian Association of Music Therapy (IAMT), Delhi
- Member, Human Ethical Committee, Kumari Mayawati Govt. Girls P.G. College, Badalpur

## References

Prof. Dinesh C. Sharma

Head, Department of Zoology, KMGGPGC, Badalpur

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## Dr Neetu Singh

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