

Priyanka Kumari Keshri

Department of Biochemistry,
Institute of Science

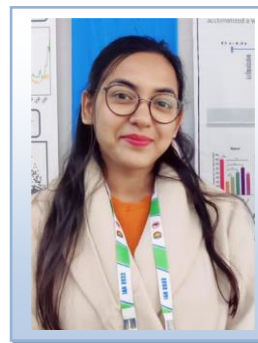
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Date of Birth: 14th April, 1994



AREA OF INTEREST

Brain disorders, Neuroscience, Molecular Research, Cognitive Neuroscience, Neuroprotection, Neuroinflammation, Epigenetics, and Pharmacokinetics.

TECHNICAL SKILLS

Gel electrophoresis, Western Blotting, Immunohistochemistry Technique, DNA, RNA and protein isolation, PCR technique, TLC, HPLC, animal handling, UV-Vis spectroscopy, Fluorescence microscopy, Light microscopic examination.

PROFESSIONAL QUALIFICATION

- **Ph.D.** (Ongoing) in the area of **Parkinson's disease and Neuroprotection**, in Neurobiology Lab at the Department of Biochemistry, Institute of Science, Banaras Hindu University, Varanasi, Uttar Pradesh
- **M. Sc. in Forensic Science**, Institute of Science, Banaras Hindu University, Varanasi (8.85 CGPA) (**Gold medalist with Distinction**)
- **B. Sc in Zoology (Hons.)**, Banaras Hindu University, Varanasi, Uttar Pradesh (8.01 CGPA).

WORK EXPERIENCE

Position: **Junior Research Fellow (28 January 2020- 28 December 2020)**

Institute: **Centre of Experimental Medicine and Surgery, Institute of Science, Banaras Hindu University, Varanasi.**

Project Title: **"Isolation and Characterization of Fungal endophytes from *Oroxylum indicum* for anticancer and antioxidant activity".**

PROJECTS

Major Projects –

1. Lab: DNA Division, State forensic Lab, Sagar, Madhya Pradesh, India (14 April 2019 – 15 May 2019)

Project Title: **"The effect of different extraction methods, storage timing and DNA yield from different**

blood samples”.

2. Institute: Mahila Maha Vidhyalaya, Banaras Hindu University (1 April 2016 – 30 April 2017)

Project Title: “**The role of epigenetics on Human Health.**”

PUBLICATIONS

1. Singh, R., Rathore, A. S., Dilnashin, H., **Keshri, P. K.**, Gupta, N. K., Prakash, S. A. S., ... & Singh, S. P. (2024). HAT and HDAC: Enzyme with Contradictory Action in Neurodegenerative Diseases. *Molecular Neurobiology*, 1-15.
2. Singh, S., **Keshri, P. K.**, Mishra, V. N., & Singh, S. P. (2023). Moringa oleifera Modulates MPTP-induced Mitochondrial Dysfunction in Parkinson's Mouse Model: An in silico and in vivo Analysis. *Journal of Pharmacology and Pharmacotherapeutics*, 14(3), 187-200.
3. Dilnashin, H., Birla, H., Keswani, C., Singh, S.S., Zahra, W., Rathore, A.S., Singh, R., **Keshri, P.K.** and Singh, S.P., (2023). Neuroprotective Effects of Tinospora cordifolia via Reducing the Oxidative Stress and Mitochondrial Dysfunction against Rotenone-Induced PD Mice. *ACS Chemical Neuroscience*.
4. Rathore, A.S., Singh, S.S., Birla, H., Zahra, W., **Keshri, P.K.**, Dilnashin, H., Singh, R., Singh, S., and Singh, S.P. (2023). Curcumin Modulates p62–Keap1–Nrf2-Mediated Autophagy in Rotenone-Induced Parkinson's Disease Mouse Models. *ACS Chemical Neuroscience* **2023** 14 (8), 1412-1423.
5. Singh, R., Zahra, W., Singh, S.S., Birla, H., Rathore, A.S., **Keshri, P.K.**, Dilnashin, H., Singh, S., and Singh, S.P. (2023). Oleuropein confers neuroprotection against rotenone-induced model of Parkinson's disease via BDNF/CREB/Akt pathway. *Sci Rep* 13, 2452.
6. Rai, N., **Keshri, P. K.**, Gupta, P., Verma, A., Kamble, S. C., Singh, S. K., & Gautam, V. (2022). Bioprospecting of fungal endophytes from Oroxyllum indicum (L.) Kurz with antioxidant and cytotoxic activity. *Plos one*, 17(3), e0264673.
7. Zahra, W., Birla, H., Singh, S.S., Rathore, A.S., Dilnashin, H., Singh, R., **Keshri, P.K.**, Gautam, P. and Singh, S.P., 2022. Neuroprotection by Mucuna pruriens in Neurodegenerative Diseases. *Neurochemical Research*, pp.1-14.
8. Rai, N., Gupta, P., **Keshri, P. K.**, Verma, A., Mishra, P., Kumar, D., ... & Gautam, V. (2022). Fungal Endophytes: an Accessible Source of Bioactive Compounds with Potential Anticancer Activity. *Applied Biochemistry and Biotechnology*, 1-24.
9. Uniyal, Ankit., Akhilesh., Rathore, A.S., **Keshri, P.K.**, Singh, S.P., Sanjay., Tiwari, Vinod., 2022. inhibition of pan-Aurora kinase attenuates evoked and ongoing pain in nerve injured rats via regulating KIF17-NR2B mediated signalling. *International Immunopharmacology*, 106, pp. 108622.
10. Birla, H., Keswani, C., Singh, S.S., Zahra, W., Dilnashin, H., Rathore, A.S., Singh, R., Rajput, M., **Keshri, P.** and Singh, S.P., 2021. Unraveling the Neuroprotective Effect of Tinospora cordifolia in a Parkinsonian Mouse Model through the Proteomics Approach. *ACS chemical neuroscience*, 12(22), pp.4319-4335.

11. Rathore, A.S., Birla, H., Singh, S.S., Zahra, W., Dilnashin, H., Singh, R., **Keshri, P.K.** and Singh, S.P., 2021. Epigenetic Modulation in Parkinson's disease and Potential Treatment Therapies. *Neurochemical Research*, pp.1-9.
12. **Keshri, P.K.**, Rai, N., Verma, A., Kamble, S.C., Barik, S., Mishra, P., Singh, S.K., Salvi, P. and Gautam, V., 2021. Biological potential of bioactive metabolites derived from fungal endophytes associated with medicinal plants. *Mycological Progress*, 20(5), pp.577-594.
13. Rai, N., **Kumari Keshri, P.**, Verma, A., Kamble, S.C., Mishra, P., Barik, S., Kumar Singh, S. and Gautam, V., 2021. Plant associated fungal endophytes as a source of natural bioactive compounds. *Mycology*, pp.1-21.

BOOK CHAPTERS

1. Thakkur, M., Dilnashin, H. and **Keshri, P.K.**, 2021. Natural Herbs Polishing Memory: Neuroprotection against Alzheimer's Disease. In: Singh, S.P., Birla, H., Keswani, C. (Eds.). *Traditional Medicine for Neural Health*. Bentham Science Publishers, Singapore.
2. Zahra, W., Birla H., Singh S.S., Rathore A.S., Dilnashin H., Singh R., **Keshri P.K.**, Singh S.P., 2022. Medicinal plants and natural compounds as antiparkinsonian agents Neurodegenerative Diseases: Multifactorial degenerative processes, Biomarkers and Therapeutic approaches.
3. Rai, N., Singh, A.K., **Keshri, P.K.**, Barik, S., Kamble, S.C., Singh, S.K., Kumar, R., Mishra, P., Kotiya, D. and Gautam, V., 2021. Probiotics for management of gastrointestinal cancers. In *Probiotic Research in Therapeutics* (pp. 191-209). Springer, Singapore.

CONFERENCES AND WORKSHOPS

1. Successfully presented the poster in the event “**XL Annual meeting of the Indian Academy of Neuroscience (IAN-2022)**”.
2. Organizing member of IBRO-APRC Neuroscience school on “Neuroprotective Potential of Medicinal Plants and Phytochemicals in Neurodegenerative diseases” held on 12-18th September 2022 in Banaras Hindu University, India.
3. Attended **Annual Meeting of Indian Academy of Neurosciences (IAN)**, Theme: "**NeuroGlia in Health and Disease**" organized by Indian Institute of Science Education and Research Kolkata, Netaji Subhas Open University & CSIR-Indian Institute of Chemical Biology.
4. Participated in Global Engagement Workshop 2021 on **Neurodegenerative diseases**, supported by **International Brain Research Organization (IBRO)**.
5. National conference “**The changing paradigm on environment protection in India**”
Place: **Institute of medical science, Banaras Hindu University, Varanasi, India.**
Paper Presentation: “**The clinical medical effect of changing environment on Health**”
6. International conference “**Advances in Forensic DNA technology**”
Place: **Jhansi, Uttar Pradesh, India.**
Poster Presentation: “**Forensic Ballistics**”
7. Attended workshop: “**Emerging Trends in Forensic Biotechnology and Pharmacy in India**”.

ACHIEVEMENTS

- **Gold medalist** with distinction in Master's (MS) in forensic Science for University Topper, Banaras Hindu University (BHU), Varanasi.
- **Lalita and Ravindra Nath Travel Fellowship** for attending the Indian Academy of Neuroscience-2023.
- Life-time member of the **Indian Academy of Neuroscience**.
- Reviewer of **Oxidative Medicine and Cellular Longevity (Hindawi)** and **International Journal of Psychological and Brain**
- Won prizes in Debate, Extempore, and Elocution in High School and Secondary school.

REFEREES

1. Prof. Surya Pratap Singh

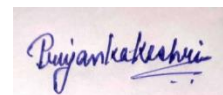
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3. Prof. Rashmi Singh

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(Priyanka Kumari Keshri)

Place: Varanasi, India

