

Prof. P. Reddanna
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UNIVERSITY OF HYDERABAD

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Citation of Research work for the Sun Pharma Science Foundation Research Fellowship-2024

Citation of Research Achievements

Dr. Mamta Sajwan Khatri has demonstrated exceptional research prowess and has been widely recognized for their contributions to the field of neuroscience and molecular biology.

Research Focus: Dr. Mamta has conducted pivotal research on the molecular mechanisms involving brain signaling molecules, particularly Glial Cell Line-Derived Neurotrophic Factor (GDNF) and its receptors (GFR α -1,4), Transforming Growth Factor (TGF), and other critical transcription factors. Their work seeks to elucidate how these mechanisms regulate gene expression essential for neuronal development and function. This research has potential applications in targeting MPTP-induced neurodegenerative disorders and exploring regenerative approaches to enhance health outcomes.

Publications and Presentations: Dr. Mamta has published peer-reviewed articles in esteemed journals such as *Journal of Neurotoxicology and Teratology* and *Brain Research Bulletin*, showcasing their findings on neural mechanisms underlying neurodegeneration. Additionally, they presented their research at the International Conference on Molecular Signalling 2024.

Dr. Mamta's research contributions have been recognized with prestigious awards and grants, underscoring their impact on advancing scientific knowledge and developing innovative approaches in the field of neuroscience.

In addition, Dr. Mamta has received prestigious DST-funded research fellowships:

1. **DST Women Scientist Fellowship (Ref SR/WOS-A/LS-303/2017, 2018)** – Principal Investigator for the project "Regulation of Tyrosine Hydroxylase: Implication on Catecholamines in Normal & Neurodegenerative Stress," with a fellowship amount of Rs. 34 Lakhs 54 Thousand.
2. **DST Women Scientist Fellowship (Ref SR/WOS-A/LS-36/2014, 2014)** – Principal Investigator for the project "Understanding the Impact of Transforming Growth Factors and Neurotrophins on Brain Regulation and Functions," with a fellowship amount of Rs. 29 Lakhs 20 Thousand.

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Notable Awards and Honors Received by Dr Mamta includes:

- I. **Honour from the Academic Panel of India for Science for Women: Technology and Innovation (SWATI) (2024)** – Acknowledged for outstanding contributions to women in science and innovation.
- II. **Prof. G.P. Talwar Young Scientist Award (2022)** – Awarded by the Indian Society for the Study of Reproduction & Fertility (ISSRF) for distinguished research achievements.
- III. **Dr. Mridula Kamboj Young Scientist Award (2020)** – Presented by the ISSRF in recognition of significant contributions to the study of reproduction and fertility.
- IV. **International Brain Research Organization (IBRO) Translational Neuroscience Research Grant (2017)** – Awarded for research conducted in Dhaka, Bangladesh, focusing on brain signaling mechanisms.
- V. **International Brain Research Organization (IBRO) Neuroscience Research Grant (2013)** – Granted for research in Malaysia on identifying novel marker genes for brain sex differentiation.
- VI. **Best Work Presentation Award (2017)** – Recognized for an outstanding presentation at the 35th Annual Meeting of SRBCE, University of Hyderabad.
- VII. **Siva Gayathri Memorial Award (2016)** – Honored at the Society for Biotechnologists meet in Chennai for exemplary research contributions.

Other Scientific Contributions

MEMBERSHIP/SCIENTIFIC ACTIVITIES/ REVIEWER

- ☐ Executive member of the Indian Society of Comparative Endocrinology (ISCE)
- ☐ Life Membership of the Indian Society for the Study of Reproduction and Fertility (ISSRF)
- ☐ Member of the Federation of Asian Biotech Association (FABA) Academy
- ☐ Member of The International Neuroendocrine Federation (INF)
- ☐ Reviewer for several scientific journals like Gene, Gene Reports, Plos One
- ☐ Review Editor: Frontiers in Endocrinology (Reproductive Biology)

(Prof. P. Reddanna)