Namination at Prof. Amit Mishra for SUN PHARMA SCIENCE FOUNDATION In Medical Sciences under Basic Research Category

Contributions of the naminee: Entire Presented Work of Amil Mishra was Performed in India

Prof. Amit Mishra Research Contributions Medical Sciences under Basic Research

Prof. Amit Mishra has done significant work in neuronal protein quality control mechanisms involved in neurodegenerative diseases. This has been achieved by understanding the quality control functions of selective multifaceted E3 ubiquitin ligases, which barricade extreme defense against misfolded prateins aggregation. His findings provide a clear and better understanding of this innovative concept that can develop new therapeutic targets for neurodegeneration and aging. His studies have helped in clarifying the molecular pathways of mistolaed recognition strategies based on E3 Ubiquitin Ligases. Amit's findings enlighten the precise molecular mechanism of E3 ubiquitin ligases and molecular chaperones, their involvement in neuronal quality control pathways. and affect overall neuronal homeostasis. Amit designs a different mechanism to modulate the professional functions that can induce autophagy pathways and serve as the anti-aggregation program at affected cellular proteostasis. Research from his lab proposes that E3 Uplaultin Ligases can act as the first line of defense against proteostasis fallure under different protein conformation conditions. Amilt developed an innovative harnessing method of molecular protein quality control system that can inhibit aberrant protein aggregation and deregulated proliferation. His group's significant contributions have substantially added knowledge on the pragressing neurobiological approaches against multifactorial challenges in neurodegeneration. Shortly results of our studies may offer the more suitable substitute proteolytic machinery therapeutic strategies to balance the proteostasis for the defective events specifically linked with late-anset neurodegenerative diseases and aging.

Prof. Mistira has published more than one nundred five high-quality publications, several of those being selected as Cover Page of International Journals, SERB India, DBT India, BRNS/BARC, DST-JSPS, NSA-JSPS, and DST awarded him crucial research projects. Well-recognized national and International scientific organizations have recognized Amit's research contributions and bestawed different Honors/Awards/fellowships. His research has gathered attention from various Academic & Research bodies e.g., CSIR, ITs. MHRD, ICMR, DBT, DST, SERB, BRNS/BARC, INSA, NASI, ISCA, INYAS, IABS, BRSI, NAMS, JSPS, Max Planck, RIKEN, RSC, RSB, NYAS, IGC, and IAN, Based on his vital contributions, Prof. Mistira commands a respectable position in the area of protein mistalding research and is considered a leader in the field at such a young age. Taken together all the above achievements and significant research contributions of Prof. Mistira. I highly recommend him for consideration for SUN PHARMA SCIENCE FOUNDATION in Medical Sciences under Basic Research Category. Please feel free to ask me any questions in this regard.

Melail Muling

(Signature)

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Citation on the Research Work of the Applicant:

Publications:

136 International Publications

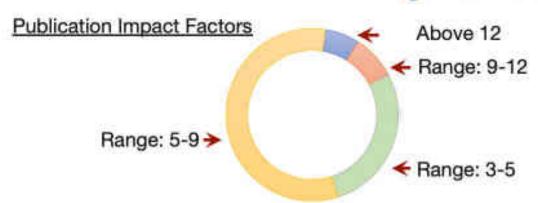
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Biochemical Journal Neurochemical Research BBA General Subjects

The research output of the Prof. Amit Mishra research at IIT Jodhpur is a testament to its commitment to excellence and innovation. With over 135 high-quality papers published in reputable journals and garnering more than 17,100 citations, our lab's contributions have significantly advanced the frontiers of bioscience and bioengineering. These publications, characterized by their high impact factors, demonstrate the depth and breadth of our research endeavours. The substantial number of citations reflects the relevance and significance of our research findings within the scientific community. By disseminating our discoveries and insights, we have not only expanded the body of knowledge but also inspired further research and innovation in related areas. Our lab's impressive publication record underscores the expertise, dedication, and collaborative spirit of our faculty members, researchers, and students. Through rigorous experimentation, meticulous analysis, and creative problem-solving, we have tackled complex challenges and generated impactful results that have the potential to shape the future of neuroscience. As we continue to push the boundaries of scientific exploration and strive for excellence in our research endeavours, we remain committed to upholding the highest standards of academic integrity, rigor, and innovation. We aim to contribute meaningfully to the advancement of science and technology, making a positive and lasting impact on society at large.

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