



राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान

National Institute of Pharmaceutical Education and Research (NIPER)
Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers
Govt. of India

From:

Dr. Nitesh Kumar,

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To:

Prof. Virander S. Chauhan,

Biotechnology Research Professor,

International Centre for Genetic Engineering and Biotechnology, New Delhi

Sun Pharma Science Foundation.

Dear Sir,

I am writing to enthusiastically nominate Md. Abubakar, PhD Research Scholar, for the Sun Pharma Science Scholar Fellowship award in recognition of his outstanding work on Project "Investigation of antiparkinsonism activity of Mucuna pruriens hydroalcoholic extract via GLP1 modulation in Parkinson model." As a supervisor at the National Institution of Pharmaceutical Education and Research, Hajipur, I have had the privilege of overseeing Md. Abubakar's contributions, and I am confident in their exceptional qualifications for this honor.

Throughout his tenure and ongoing investigation of the antiparkinsonism effects of extract, Md. Abubakar has demonstrated a remarkable level of dedication, creativity, and competence. He took on challenges ranging from the extraction process to identifying the molecular target through network pharmacology. He then proceeded to investigate this extract's neuroprotective activity on SHSY5Y cell lines, determining its cell viability and neuroprotective effects. Subsequently, he employed an in vivo animal model to investigate behavioral alterations and molecular modifications in a few markers involved in Parkinson's disease physiology. His intention was to identify one of several factors that contribute to its onset and

severity of Parkinson's disease, given that the exact etiology of this disease remains unknown. Future treatments could apply this knowledge by developing formulations for clinical practice and identifying the molecular target responsible for reducing the severity of the disease. Under my guidance and plan, he concentrated on a single molecular pathway that connects to numerous neuroinflammatory markers and linked these alterations to inflammatory changes in the gut. This task necessitated not just technical expertise but also creative thinking and problem-solving skills.

One of the most notable aspects of Md. Abubakar's work is achieving the best poster award in the "International Conference on New Horizon Drugs, Devices, and Diagnostics" held at NIPER Hyderabad. She also got another best poster award in the "55th Foundation Day Celebration of the Indian Pharmaceutical Association [IPA]" and an appreciation certificate for poster presentation during the "73rd Indian Pharmaceutical Congress." According to my knowledge, Mr. Md. Abubakar has the ability to articulate new thoughts and ideas, both verbally and in writing, as well as listen actively. He manages his time and space to prioritize work, meet deadlines, and maintain an orderly space to stay on top of allotted research projects. Additionally, he consistently arranges his current tasks into cohesion in terms of his research abilities, he has done excellent experimental work and handling experience in techniques such as western blot, histopathology, immunohistochemistry, flow cytometry, cell cycle analysis, behavioral parameters immunocytochemistry [ICC], colonoscopy, RT-PCR, ELISA, and basic cell culture techniques. techniques. Apart from this, he has published a few articles on neurological disorders and is currently conducting ongoing research, reviewing, and publishing book chapters in reputable journals. This accomplishment not only surpassed our expectations but also significantly contributed to the overall success of research.

Moreover, Md. Abubakar has consistently shown excellent analytical skills, a strong work ethic, and an eagerness to learn and grow. He has been proactive in seeking feedback and applying it constructively, which has contributed to his high quality of work. The ability to work independently and manage his time effectively has also been commendable. In addition to his technical skills, Md. Abubakar has exhibited a strong sense of professionalism and teamwork. He also has collaborated effectively with peers and mentors in other research studies, and his positive attitude has greatly contributed to the work environment.

Based on his exceptional performance, dedication, and contributions, I wholeheartedly endorse Md. Abubakar for the **Sun Pharma Science Scholars Fellowships-2024 nomination**. I am confident that his achievements and attributes make him an outstanding candidate for this honor. Thank you for considering this nomination. Should you require any further information about his work, publication, or wish to discuss Md. Abubakar's qualifications in more detail, please do not hesitate to contact me.

Sincerely,

Dr. Nitesh Kumar,

Assistant Professor, Department of Pharmacology and Toxicology, NIPER HAJIPUR

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