सत्यमेव जयते

राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान, गुवाहाटी
NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH, GUWAHATI

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NIPER GUWAHATI

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Director

Ref. No. NIPERG/Dir/2023/NoC

Dated:30/08/2023

Letter of Nomination

I am happy to nominate Ms. Navya Malladi for "The Sun Pharma Science Foundation Science Scholar Award". She is doing her PhD under the supervision of Dr. Sanjay K Banerjee, Department of Biotechnology, National Institute of Pharmaceutical Education and Research (NIPER), Guwahati and successfully completed the course work followed by the Research work. During her tenure she published 2 Papers. To get admission into NIPER, she cleared two prestigious national examinations like Graduate Pharmacy Aptitude Test [GPAT] and NIPER-JEE. Also, she is the recipient of the Gold Medal in the year 2021 in M.Pharm - Biotechnology.

Her research is focused mainly on "Life-style disorders and understanding the cardiovascular complications in diabetes and non-alcoholic fatty liver disease". She has looked the platelet activation in diabetes animal model and evaluated the role of a natural compounds, Allyl methyl sulfide (AMS), to alleviate the platelet activation and platelet-macrophage interaction. Her study showed that the effect of AMS is comparable to Aspirin, and she also carried out work on metabolomics of platelets and revealed the molecular mechanism of the beneficial effects of AMS. She could publish her work in "Journal of Diabetic Research" in the year 2022, further, she has explored the liver-heart axis in NAFLD, the animal model of NAFLD in rats showed the correlation between fatty liver disease and cardiac dysfunction in a time-dependent manner. She had tracked the disease progression by non-invasive manner using small animal image system. She has established the method to score fatty liver and presence of hypoxia in NAFLD rats. Her data also found the role of posttranslational modification of proteins (PTM) in NAFLD progression. She showed that FOXO3A and NFkB are acetylated in the liver of NAFLD rats and imitate oxidative stress and inflammation, both of which are crucial for disease pathogenesis. To find a novel therapy considering the increased acetylation, she has treated Paricalcitol, a vitamin D receptor agonist and an FDA-approved drug in renal failure, to NAFLD rats. Interestingly, Paricalcitol attenuate the NAFLD phenotype by decreasing the acetylation status of both FOXO3A and NFkB. We are now interested to translate our finding to human.

During her tenure, she demonstrated the ability to work independently with great creativity, professionalism and positive attitude and put in many long hours including holidays in work. She is excellent in both narration and oration with her built in talent of excellent communication skills. I have no hesitation in nominating M.s Navya to "The Sun Pharma Science Foundation Science Scholar Award" and I am happy to provide any further information if required.

Thanking you,

Sincerely,

[USN Murty]

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