



जीव विज्ञान संस्थान INSTITUTE OF LIFE SCIENCES

(An Autonomous Institute of the Department of Biotechnology, Govt. of India)

Nomination Letter

To,
The Selection Committee,
Sun Pharma Science Foundation
8C, 8th Floor, Hansalaya Building, 15-Barakhamba Road,
Connaught Place, New Delhi: 110001(India)
Dated: 21-08-2023

Sub: Nomination of Research Work entitled "*NCoR1 Controls Mycobacterium tuberculosis Growth in Myeloid Cells Project*" for Sun Pharma Science Foundation (Science Scholar Awards)

Dear Selection Committee of the Sun Pharma Science Foundation,

I am writing to provide my unequivocal endorsement of the research work entitled "*NCoR1 Controls Mycobacterium tuberculosis Growth in Myeloid Cells by Regulating the AMPK-mTOR-TFEB Axis*," which has been submitted by **Kaushik Sen** for consideration for the Sun Pharma Science Scholar Award. I have had the privilege of working closely with him throughout the course of this project, and I can personally attest to the authenticity, rigor, and significance of the research endeavors. As a Scientist at Institute of Life Sciences, Bhubaneswar, Odisha, I have had the opportunity to supervise and guide him during the entire research process. I was closely involved in the project's conception, experimental design, execution, data analysis, and manuscript preparation. I am confident that the research work submitted by him is indeed a original piece of contribution to the scientific community.

The study revolves around the intricate molecular mechanisms underlying the control of *Mycobacterium tuberculosis* growth within myeloid cells. The identification of NCoR1 as a pivotal regulator of this process, particularly through its influence on the AMPK-mTOR-TFEB axis, represents a groundbreaking advancement in our understanding of host-pathogen interactions. The comprehensive research methodology, including advanced cellular and molecular techniques, was meticulously carried out under my supervision, reflecting his dedication and expertise. Furthermore, he also has demonstrated commitment to rigorous scientific inquiry and ethical research practices throughout the



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project. He has consistently shown a deep understanding of the scientific concepts and methodologies involved, and the ability to adapt and troubleshoot experimental protocols has been commendable.

I have closely reviewed the research data, analysis, and manuscript, and I can confirm that all elements presented in the submission accurately reflect the work conducted by my student. The findings are not only innovative but also hold immense potential for shaping future research directions in the field of tuberculosis pathogenesis and treatment. In conclusion, I have full confidence in the authenticity of the research work titled "*NCoR1 Controls Mycobacterium tuberculosis Growth in Myeloid Cells by Regulating the AMPK-mTOR-TFEB Axis*" submitted by him for the Sun Pharma Science Scholar Award. His dedication, expertise, and the significant contribution this research makes to the field underscore his eligibility for this prestigious recognition.

I wholeheartedly recommend **Kaushik Sen** for this award and believe that the accomplishments will further strengthen the foundation's mission of promoting excellence in scientific research.

Please feel free to contact me at sunilraghav@ils.res.in if you require any further information or clarification.

Thank you for your time and consideration,

Dr. Sunil Kumar Raghav

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