

19 August 2024

### **Justification for Sponsoring the Nomination**

To Whom It May Concern,

It is with great enthusiasm that I nominate Ms. Indhumathi Thirugnanasambandham for the Sun Pharma Science Foundation Science Scholar Fellowship. Ms. Indhumathi has consistently demonstrated outstanding research capabilities, making significant contributions to the field of pharmaceutical sciences under my guidance from 2021 to the present.

Her pioneering research on Saquinavir-loaded solid lipid nanoparticles for PAD4 inhibition, funded by the Indian Council of Medical Research (ICMR), exemplifies her innovative approach to addressing the complex challenges of rheumatoid arthritis. By exploring a new pathway to challenge this debilitating disease, her work integrates advanced nanoparticle formulation and surface modification techniques, offering promising solutions for targeted drug delivery. This groundbreaking research has been patented and published in scientific journals, further solidifying its impact on the field.

Ms. Indhumathi's academic excellence is well-recognized. She has received prestigious awards such as the Prof. K. Chinnaswamy Endowment Gold Medal and the Icon of Student award for her top scores during her B. Pharmacy and M. Pharmacy studies. Her groundbreaking hypothesis on immunomodulation further underscores her research excellence in extra-articular manifestations, published in the *Medical Hypotheses* journal.

Additionally, she has actively contributed to technology transfer by collaborating on industry projects and translating her research into practical applications. Her work has been showcased at international conferences, where she has received best poster awards and travel grants, further validating the impact of her research.

Ms. Indhumathi's combination of scientific innovation, academic achievement, and practical impact makes her an exemplary candidate for this fellowship. I strongly endorse her nomination and am confident that this recognition will further propel her contributions to the field.

Sincerely,

**Dr. Gowthamarajan Kuppusamy**

Professor and Head, Department of Pharmaceutics

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