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To the Sun Pharma Science Foundation Science Scholar Awards 2021 committee,

Justification Letter

It gives me immense pleasure to recommend **Ms. Dhanisha Suresh Sulekha** for the eminent **Sun Pharma Science Foundation Science Scholar Awards 2021**.

I am proud to say that Ms. Dhanisha Suresh Sulekha is so dedicated and had qualified the prestigious Joint-CSIR-UGC test for Junior Research Fellowship (JRF) and National Eligibility Test (NET) (Dec, 2015). She maintained a consistently high score during her academic years and secured University second rank in B.Sc. followed by third rank in M.Sc. She was awarded with District Merit Scholarship (2008-2009) and Post Graduate Merit Scholarship for University Rank holders (2013-2015) for her academic credit. She has been doing her Ph.D. under my supervision from January 2018 with UGC fellowship and had registered for Ph.D. under University of Kerala (Uty Order No. AcE1/A2/118/BTY/16623/2018). She is capable to mingle with interdisciplinary research team and has published a review article entitled "*Mucins: Structural diversity, biosynthesis, and its role in pathogenesis and as possible therapeutic targets*" in the Journal *Critical Reviews in Oncology and Hematology* with an impact factor 5.012.

Her research work aims in *understanding the mechanism behind the action of phytochemicals in interacting with the biological system during cancer chemotherapy induced immunosuppression and their significance in modulating the immune system and inflammatory mediators*. This is an important area of cancer research and has enormous applications especially in reducing the complications associated with cancer chemotherapy or radiochemotherapy. Till date, Ms. Dhanisha had succeeded in identifying a series of phytochemicals from camachille and had tested the mechanism behind the action using *in silico*, *in vitro* and *in vivo* models. Currently, she is investigating on the molecular interactions of these phytochemicals on tumour cells and testing its potential in targeting the cascade of events leading to tumour metastasis. Till date, she had ten publications to her credit in renowned journals such as *Anti-Cancer Agents in Medicinal Chemistry*, *Journal of Food Biochemistry*, *International Journal of Functional Nutrition*, *Cancer Investigation* and *Journal of the American College of Nutrition*.

I believe that dedicated brilliant and young researchers like **Ms. Dhanisha Suresh Sulekha** should be given adequate recognition and support in all the possible ways to reach greater heights. *Sun Pharma Science Foundation Science Scholar Award* will be a major milestone in her research career and in long run will give productive results. Moreover, this award will facilitate her to initiate a new network collaboration, initiate new international exposures and apply novel ideas in her ongoing and future research work. Therefore, I give full support to Ms. Dhanisha Suresh Sulekha to apply for the prestigious Sun Pharma Science Foundation Science Scholar Award and give full recommendation to the Sun Pharma Science Foundation Science Scholar Award 2021 committee to consider her application for this prestigious award.

Yours sincerely,

Dr. Guruvayoorappan. C

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