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JNMC Campus, Nehru Nagar, Belagavi-590 010, Karnataka State, India
☎: 0831-2444444 **FAX:** 0831-2493777 **Web:** http://www.kledeemeduniversity.edu.in
E-mail: info@kledeemeduniversity.edu.in

To Whom It May Concern

It is a pleasure to furnish this support letter in respect of Dr. Shrikrishna Madhukar Nandanwadkar, for his application towards SUN PHARMA Science Foundation Research Awards 2021. Dr. Shrikrishna is presently working with me as a National Post-Doctoral fellow for fortified food micronutrient analysis training program.

Dr. Shrikrishna's proficiency in micronutrient analysis is amply demonstrated in his recent publication entitled "Multielemental Analysis and In Vitro Evaluation of Free Radical Scavenging Activity of Natural Phytopigments by ICP-OES and HPTLC that has been accepted for publication in Frontiers in Pharmacology which is *the 2nd most-cited open-access* Pharmacology & Pharmacy journal in the world with an *impact factor 0f 5.810.*

Food fortification initiative taken up by Food Safety and Standard Authority of India (FSSAI) for mass fortification of wheat flour and edible oil is facing its biggest challenge in terms innovative methodology establishment and validation by laboratories with recommended protocols from Association of Agriculture Chemist (AOAC). The methodologies that have been incorporated in AOAC manuals undergo frequent changes according to needs of customers and have to be adopted for Indian cooking ingredients. Measurements of minuscule amounts of micro-nutrients fortificants added to heterogeneous vehicles (matrix) poses biggest problem.

In addition to Dr. Shrikrishna's proven expertise in (A) Inductively coupled plasma coupled either with atomic emission spectroscopy or Optical Emission Spectroscopy, (B) Liquid Chromatography-Mass Spectrometry (LC-MS) and (C) High Pressure Liquid Chromatography (HPLC) and (D) High-Performance Thin-Layer Chromatography (HPTLC), his innovative approach to develop newer methodologies with sound knowledge of intricacies of food matrix is well reflected in his award proposal.

Being one of the most accomplished analyst in this field, Dr. Shrikrishna's has opted to apply one of the most recent technological field of Dispersive Liquid-Liquid Micro-Extraction (DLLME) a sample preparation technique based on the injection of extraction solvent. Dr. Shrikrishna wishes to answer the research question whether DLLME in conjunction with HP-TLC can overcome the problems posed by food matrix in analysis of trace amounts of micronutrients. Further, he wishes to develop a robust miniature methodology with adequate sensitivity, specificity and reproducibility that will fulfill the unmet need of food analytical laboratories in India and most of South-East Asia.
I therefore strongly recommend his case for the award of SUN PHARMA Science Research (Pharmaceutical Sciences) with his accomplishment as a researcher scientist and trainer par excellence.

M. M. Godbole

From,
Dr. Madan M. Godbole
Distinguished Professor and Research Advisor,
KLE Academy of Higher Education and Research, KLE University,
Belagavi, 590010, Karnataka