



डॉ. राजेन्द्र प्रसाद नेत्र विज्ञान केन्द्र

Dr. Rajendra Prasad Centre for Ophthalmic Sciences

अखिल भारतीय आयुर्विज्ञान संस्थान

All India Institute of Medical Sciences

अंसारी नगर, नई दिल्ली-110029 ( भारत )

Ansari Nagar, New Delhi-110029 (India)

डा० टी. वेलपान्डियन, पीएच.डी.

**Dr. T. Velpandian**

आचार्य एवं प्रभारी

**Professor & In-charge**

**Ocular Pharmacology & Pharmacy Div.**

To

Date: 16<sup>th</sup> Aug 2021

**The Executive In-charge,**

Sun Pharma Science Foundation- Science Scholar Awards 2021,  
Connaught Place, New Delhi -110001.

Sub: Justification for sponsoring nomination of Mr.L. Gowtham

Dear Sir,

Mr. L. Gowtham has been working under my supervision for his PhD and I am glad to nominate his candidature for the "Sun Pharma Science Foundation Science Scholar Award-2021". I hereby certify that the Candidate is satisfying the nomination criteria for the award. By working on his PhD thesis "Metabolomics and pharmacogenomic evaluation of glaucoma therapy", he has conducted an extensive research on the understanding the molecular mechanisms involved in the glaucoma pathophysiology using mass spectrometry and NMR based multi-omics approaches. He has also been the recipient of ICMR SRF fellowship for the same.

In brief, he has analysed the changes in the metabolomic, proteomic, lipidomic variations in the aqueous humour as well as plasma obtained from the two major type of glaucomatous patients (Primary Open angle and angle closure glaucoma). He also studied the polymorphism of the genes encoding the protein targets of first line anti glaucoma drugs. Interestingly, one of the outcomes of his research work has opened a new understanding towards development of newer pharmacological targets for the treatment of glaucoma. One of his research findings has recently published (Inpress) in the Journal of "Molecular Vision" as Elevated histamine levels in the aqueous humor of the patients with primary open angle glaucoma". Further work of him is under communication for publication (will be informed subsequently).

I strongly recommend by nominating Mr.L.Gowtham for the SPSF -Science Scholar Awards 2021.

Thanking you

Yours sincerely,

**Dr. T. Velpandian**

(Professor and In Charge)

Ocular Pharmacology and Pharmacy Div.,