



**नाईपर हैदराबाद**  
**NIPER HYDERABAD**

**राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान**  
औषधीय विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार  
**National Institute Of Pharmaceutical**  
**Education And Research**  
Department of Pharmaceuticals, Ministry of Chemicals & Fertilizers, Govt. of India

**Citation (Summary) on the outstanding research work on which award is claimed in  
about 250 words signed by the Nominator**

Dr Chandraiah Godugu and his team at NIPER-Hyderabad have made significant advancements in discovering novel therapeutics for pulmonary diseases, particularly Acute Respiratory Distress Syndrome (ARDS) and Pulmonary Fibrosis (PF). Post-COVID-19 complications have highlighted the urgent need for new treatments, and Dr. Godugu's work has been pivotal in this area. He has established robust in vitro and in vivo preclinical models to study the pathophysiology of these diseases and identify druggable targets. His research has demonstrated the efficacy of natural products like Nimbolide (from Neem) and Withaferin A (from Ashwagandha) in treating these conditions, contributing valuable insights into their mechanisms of action.

Dr Godugu has advanced the field by developing innovative drug-delivery methods to enhance the therapeutic efficacy of natural compounds. Additionally, he has explored drug repurposing strategies to identify novel treatments. His work emphasises the importance of inhalation drug delivery to maximise the pharmacological effects of selected therapeutics. His research on novel targets, including BRD4, Neuropilin 1, PAD4, and SIRT3, has shown promising results in controlling inflammation in ARDS and PF. Through collaboration with experts in medicinal chemistry, computational chemistry, and the application of artificial intelligence and machine learning, Dr. Godugu's team has successfully discovered new lead molecules, which have shown encouraging preclinical outcomes.

Dr. Godugu has published extensively, boasting a cumulative impact factor of over 980, an H-index of 44, and more than 7470 citations. His contributions to pulmonary disease research make him a strong candidate for the Sun Pharma Science Foundation Research Fellowship in Pharmaceutical Sciences for 2024.

*NSrinivas*  
Nominator *30/8/24*  
**Prof. Srinivas Nanduri, PhD**

**Dean, NIPER Hyderabad**

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