



राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान  
NATIONAL INSTITUTE OF PHARMACEUTICAL  
EDUCATION AND RESEARCH (NIPER)

Prof. (Dr.) Abhay T. Sangamwar, FMASc

Signed Statement from the Applicant

The applicant, prof Abhay, claim the Sun Pharma Science Foundation Research Fellowship on his work '**Design and development of supersaturated oral drug delivery system by modulating intraluminal drug and formulation behaviour of difficult-to-formulated drugs**'. This work has not been given any fellowship in the past. This work caters value addition to the existing technology of amorphous solid dispersions and lipid based formulations. The extensive literature search and continuous dialogue with fellow colleagues from pharma industry helped Prof Abhay to arrive at the selection of drug and suitable drug delivery.

1. Initial work on supersaturation and precipitation of drugs in the intraluminal environment started in 2018 by assigning a topic of microarray plate method to a PhD student, Ms Ikjot Sodhi.  
Project: Microarray plate method to cater supersaturation and precipitation of celecoxib  
Prof Abhay: Concept, project administrations and supervision  
Ms Ikjot Sodhi (Doctoral candidate): Methodology and investigation
2. Project: Drug polymer interactions to supersaturate rifaximin in vivo.  
Prof Abhay: Concept, project administrations and supervision  
Ms Ridhima Singh (Doctoral candidate): Methodology and investigation
3. Project: Supersaturation behaviour of drug combination  
Prof Abhay: Concept, project administrations and supervision  
Ms Prachi (Doctoral candidate): Methodology and investigation
4. Project: Supersaturating lipid based solid dispersion of atazanavir  
Prof Abhay: Concept, project administrations and supervision  
Ms Smiritilekha Mondal (Master candidate): Methodology and investigation
5. Project: Supersaturable phospholipid dispersion of aprepitant  
Prof Abhay: Concept, project administrations and supervision  
Ms Ajay Lale (Master candidate): Methodology and investigation
6. Project: High drug loaded amorphous solid dispersion  
Prof Abhay: Concept, project administrations and supervision  
Ms Mehal Juneja (Doctoral candidate): Methodology and investigation
7. Project: Amorphous salt solid dispersion  
Prof Abhay: Concept, project administrations and supervision  
Mr Sumit Mukesh (Doctoral candidate): Methodology and investigation
8. Project: Lipophilic salts of brick dust molecules  
Prof Abhay: Concept, project administrations and supervision  
Mr Arvind Sirvi (Doctoral candidate): Methodology and investigation

*Handwritten signature of Prof. (Dr.) Abhay T. Sangamwar*  
24.7.24

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