



Birla Institute of Technology & Science, Pilani

Pilani Campus

Department of Pharmacy, Pilani, Rajasthan, 333 031, INDIA

Dr. Aniruddha Roy, Associate Professor

Date: September 27, 2021

JUSTIFICATION FOR NOMINATION

To,
The Chairperson,
Sun Pharma Science Foundation

I am hereby nominating Ms. Swati Sharma, a PhD Scholar working under my supervision at the Department of Pharmacy, Birla Institute of Technology & Science Pilani, for the Sun Pharma Science Scholar Award, 2021. I have known Swati for more than three years. She joined my lab in Jan 2018 as a project JRF in a DST-funded project. She is a highly talented, hardworking, and sincere researcher. She started a completely new project in our lab, almost on her own, to develop a clinically viable, *in-situ* forming wound dressing. She was highly productive from the very beginning. She was able to apply for one patent (Application Number: 201811035517) as well as publish one research article in a prestigious peer-reviewed journal, *International Journal of Biological Macromolecules* (IF 6.9), as the leading author, within one year of joining the lab. She continued her research with vigor, and we were able to transfer the technology of this wound dressing she developed to Alicorn Medical Pvt. Ltd., a company primarily focused on wound management products. She further continued her research with the *in-situ* forming wound dressing and was successfully published another research article in a highly prestigious journal, *Material Science and Engineering C* (IF 7.32). She did not stop her quest there and further developed a unique method for complete cellular embedding in a polymeric scaffold, to be used for skin grafting. We have applied for another patent on this novel technique (Application Number: 201911050058) and got a DBT grant to research this further. One research article on this is under preparation.

She has also contributed to other ongoing projects, and as a co-author, published 3 research articles [*European Polymer Journal* (IF 4.60), *Pharmacological Reports* (IF 3.02), and *Journal of Drug Delivery Science and Technology* (IF 3.98)]. She has done a significant part of work in a collaborative research project, which resulted in 3 more research articles [*Colloids and Surfaces B: Biointerfaces* (IF 5.27), *Journal of Drug Delivery Science and Technology* (IF 3.98), and *European Journal of Pharmaceutical Sciences* (IF 4.38)].

I found Swati to be a brilliant person with a very strong passion for research. As a person, she is simple, responsible, amiable, and has a very good understanding with his teachers, senior colleagues, and friends. She is one of the most self-driven students that I have encountered. I recommend her in the strongest term for this award.

Yours Sincerely,

Aniruddha Roy PhD

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