

Project Report on



EXPLORING THE SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL INTERACTIONS OF QUERCETIN-COPPER NANOPARTICLE COMPLEXES FOR ENHANCED ANTIBACTERIAL AND DNA BINDING **APPLICATIONS**

Submitted by

SANJUKTA DAS

University Regn. No. - 221892310049 of 2022-23 Roll No. - 18920222005

Under the guidance of

Dr. Sagarika Deepthy Tallapragada

Assistant Professor Department of Pharmacology

In partial fulfilment of the Requirement for the Degree of Master of Pharmacy in Pharmacology

Submitted to

Maulana Abul Kalam Azad University of Technology **West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Scie

Durgapur 713206

cademic Year: 2023 - 2024

DECLARATION

I am hereby declared that the Project entitled "Exploring the Synthesis, Characterization and Biological Interactions of Quercetin-Copper Nanoparticle Complexes for Enhanced Antibacterial and DNA Binding Applications" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of Dr. Sagarika Deepthy Tallapragada.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sanjulta Das Signature

Name of Candidate: Sanjukta Das

Roll No: 18920222005

Date: 06.06.2024

Place: Dwgapwr



CERTIFICATE

This is to certify that the Project entitled "Exploring the Synthesis, Characterization and Biological Interactions of Quercetin-Copper Nanoparticle Complexes for Enhanced Antibacterial and DNA Binding Applications" by Sanjukta Das in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Dr.T. Sagarika Deepthy 06/06/24

Signature of Guide

Name of Guide: Dr. Sagarika Deepthy Tallapragada

Date: 06.06.2024

Place: Dwgapwi

PROF (DR.) SAMIR KR. SAMANTAprof. (Dr.) Samir Kumar Samanta M. Pharm., Ph.D (J.U.) Principal (PRINCIPAL)

Dr. B. C. Roy College of Pharmacy & AHS Durgapur, West Bengal-713206

Date:

Place:

Signature

Name of External Examiner:

Date:

Place:



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