

**SWAMI VIVEKANANDA INSTITUTE
OF
MODERN SCIENCE**



Affiliated to Maulana Abul Kalam Azad University of Technology, WB
Sonarpur Station Road, Karbala, P.O. - Narendrapur, P.S. - Sonarpur, Kolkata-700103

TO WHOM IT MAY CONCERN

This is to certify that the project entitled "*Peptide mediated induction of autophagic response in human breast cancer cells*" with reference to *Swami Vivekananda Institute of Modern Science, Sonarpur, Kolkata-700103* is submitted by **Komal Dubey** [2nd year, 2nd semester, registration no. 212641899210012 year 2021-22, roll no. 26499221019] under the Department of Biotechnology for the partial fulfilment of the degree of *M.Sc Biotechnology*, under *Maulana Abul Kalam Azad University of Technology, WB*, embodies the work has been done by her under our supervision.

.....
Prof. Gargi Gupta
(Vice-Principal)
SVIMS

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Prof. (Dr.) Iridip Sheet
(Internal Project Guide)
Department of Biotechnology
SVIMS

.....
Prof. (Dr.) Nilanjana Bhattacharyya Nath
(Head of the Department)
Department of Biotechnology
SVIMS

Date:

Place: Kolkata



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NATIONAL INSTITUTE OF
CHOLERA AND ENTERIC DISEASES

आई. सी. एम. आर. - राष्ट्रीय कॉलरा और आंत्र रोग संस्थान
ICMR - NATIONAL INSTITUTE OF CHOLERA AND ENTERIC DISEASES
स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य और परिवार कल्याण मंत्रालय, भारत सरकार
Department of Health Research, Ministry of Health and Family Welfare, Govt. of India

WHO COLLABORATING CENTRE FOR RESEARCH AND TRAINING ON DIARRHOEAL DISEASES

May 25, 2023

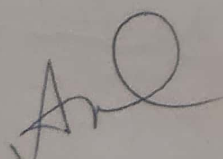
CERTIFICATE

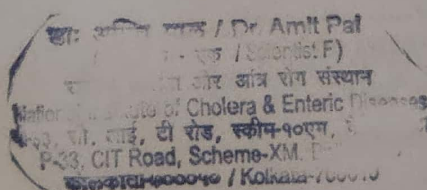
To Whom It May Concern

This is to certify that the project report entitled "**Study on a Peptide Mediated Induction of Autophagy in Human Breast Cancer Cells**" has been submitted by **Ms. Komal Dubey**, Reg. no: **212641899210012 of 2021-22** of the Department of Biotechnology, for the degree of Master of Science in Biotechnology from Swami Vivekananda Institute of Modern Science affiliated to MAKAT, WB. The research work was carried out by her in the Division of Molecular Pathophysiology, ICMR-NICED, under my supervision from **January 5, 2023 to March 15, 2023**. The results embodied in this report are new and have not been submitted to any other university or institution for the award of any degree or diploma.

She has successfully completed the project work and has been acquainted with several biochemical, molecular biology and cell biology techniques like human cell culture maintenance, microbial culture methods, western blotting, enzymatic assays and protein purification by chromatographic methods etc. Her performance during this period has been highly satisfactory. She is sincere, responsible and efficient in her working field. I have had the best impression about her scientific enthusiasm and technical background.

I wish her all success in her future endeavours.


Dr. Amit Pal, Ph.D.
Scientist-'G' & Head
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