

St Xavier's College (Autonomous)

5, Mahapalika Marg, Mumbai- 400001

To study the influence of standard TB treatment on Phagocytosis of Mycobacterium tuberculosis in THP-1 derived macrophages

A dissertation to St Xavier's College (Autonomous)

For the partial fulfilment of the degree of Master of Science in Biotechnology

Ву

Ms. Urjita Manoj Divekar.

MSc. (Biotechnology)

2019-2020

Under the guidance of

Dr. Kalpana Sriraman.

The Foundation for Medical Research, Worli.

POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY

St Xavier's College (Autonomous)

5, Mahapalika Marg, Mumbai- 400001

CERTIFICATE

This is to certify that Ms. Urjita Manoj Divekar, student of MSc (Biotechnology) - Semester IV, at the Post Graduate Department of Biotechnology, St. Xavier's College (Autonomous) has submitted the dissertation work—titled "To study the influence of standard TB treatment on Phagocytosis of Mycobacterium tuberculosis in THP-1 derived macrophages" for the partial fulfilment of the Master's degree in Science in Biotechnology, during the academic year 2019-2020.

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Place:

Dr. Karuna Gokarn

KRbokam

Head of the Department, PGDBT

POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY ST. XAVIER'S COLLEGE, MUMBAI-400 001.

CERTIFICATE OF INTERNSHIP

This is to certify that Ms. Urjita Manoj Divekar, student of MSc (Biotechnology), St. Xavier's College (Autonomous) undertook 3 months (Dec 2019-Feb 2020) of training/ Research Project at The Foundation for Medical Research lab during the academic year 2019-2020.

She has carried out the dissertation work entitled "To study the influence of standard TB treatment on Phagocytosis of Mycobacterium tuberculosis in THP-1 derived macrophages" for the partial fulfilment of MSc. (Biotechnology) degree. He /She has been familiarized with the following techniques during this project.

- a) Cell culture
- b) Microscopy
- c) TB culture

PI/supervisor: Dr. Kalpana Sriraman

Signature: Alpanel

Date 15 08 2020

Seal of the institute