

St. Xavier's College (Autonomous)

5, Mahapalika Marg, Mumbai-400101

# Generation of molecular tools and resources to characterize FAP174 AKAP240 complex from the central pair of *Chlamydomonas*reinhardtii flagella.

A dissertation submitted to St. Xavier's College (Autonomous)

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

By

Vidhi Chauhan

MSc (Biotechnology)

2019-2020

Under the guidance of

### Prof. Jacinta S. D'Souza

School of Biological Sciences, UM DAE Centre for Excellence in Basic Sciences Kalina, Santacruz (East), Mumbai- 400098, Maharashtra

## POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY

St. Xavier's College (Autonomous)

5, Mahapalika Marg, Mumbai-400101



### CERTIFICATE

This is to certify that Vidhi Chauhan, student of MSc (Biotechnology) – Semester IV, at the Post Graduate Department of Biotechnology, St. Xavier's College (Autonomous) has submitted the dissertation work titled "Generation of molecular tools and resources to characterize FAP174-AKAP240 complex from the central pair of Chlamydomonas reinhardtii flagella." For the partial fulfilment of the Master's Degree in Science in Biotechnology, during the academic year 2019- 2020.

Date:

Place:

Dr. Karuna Gokarn

Head of the Department, PGDBT

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









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### Certificate

This is to certify Vidhi Chauhan, student of MSc (Biotechnology), St Xavier's College (Autonomous) has completed four months training/ Research Project at the School of Biological Sciences, UM-DAE Centre for Excellence in Basic Sciences during the academic year 2019-2020.

She has completed the dissertation work entitled "Generation of molecular tools and resources to characterize FAP174-AKAP240 complex in the central pair of *Chlamydomonas reinhardtii* flagella" for the partial fulfilment of MSc. (Biotechnology) degree. She has been familiarized with the following techniques during this project: Bacterial and *Chlamydomonas* culturing, PCR, gene cloning, SDS-PAGE, Agarose gel electrophoresis, Protein purification, Western Blotting and *Chlamydomonas* flagellar mutant screening.

This carefully written report represents the experiments and literature related to the same carried out by her during the period from 1st December 2019 to 31st March 2020.

We/I found Vidhi Chauhan to be a sincere and hardworking student. Her overall conduct was good.

PI/Supervisor: Jacinta S. D'Souza

Signature:

Date: 28. 07. 2020

Chairperson

School of Biological Sciences
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