

**Morphological remodeling of the endometrium during the course of  
embryo implantation.**

A DISSERTATION SUBMITTED TO ST. XAVIER'S  
COLLEGE (AUTONOMOUS)

FOR THE PARTIAL FULFILMENT OF THE DEGREE OF MASTER OF  
SCIENCE IN BIOTECHNOLOGY

By

**MS. SANA ABDUL LATIF BOBLAI**

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ST. XAVIER'S COLLEGE (AUTONOMOUS)  
5, MAHAPALIKA MARG,  
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2019-2020



UNDER THE GUIDANCE OF  
**DR. DEEPAK MODI**  
NATIONAL INSTITUTE FOR RESEARCH IN REPRODUCTIVE HEALTH  
(NIRRH)  
J MERWANI ST, PAREL EAST, PAREL, MUMBAI-400012

**POST GRADUATE DEPARTMENT OF  
BIOTECHNOLOGY**

St Xavier's College (Autonomous)

5, Mahapalika Marg, Mumbai -400001



**CERTIFICATE**

This is to certify that **Ms. Sana Boblai**, student of M.Sc. (Biotechnology) – Semester IV, at the Post Graduate Department of Biotechnology, St. Xavier's College (Autonomous) has submitted the dissertation work titled "Morphological remodeling of the endometrium during the course of embryo implantation" for the partial fulfillment of the Master's degree in Science in Biotechnology, during the academic year 2019-2020.

Date: 25-11-20

Place: MUMBAI

*K. Gokarn*

**Dr. Karuna Gokarn**

**Head of the Department, PGDBT**

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



**icmr** **NIRRH**  
INDIAN COUNCIL OF  
MEDICAL RESEARCH  
NATIONAL INSTITUTE FOR RESEARCH  
IN REPRODUCTIVE HEALTH



आई सी एम आर - राष्ट्रीय प्रजनन स्वास्थ्य  
अनुसंधान संस्थान  
स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य और परिवार  
कल्याण मंत्रालय, भारत सरकार

ICMR - National Institute for Research in  
Reproductive Health  
Department of Health Research, Ministry of Health  
and Family Welfare, Government of India

### CERTIFICATE OF COMPLETION

This is to certify that **Ms. Sana Boblai**, student of **M.Sc. (Biotechnology)**, St Xavier's College (Autonomous) has completed four months training/ Research Project at the **National Institute for Research in Reproductive Health (NIRRH)** lab, during the academic year 2019-2020.

She has completed the dissertation work entitled "**Morphological Remodeling of the endometrium during the course of embryo implantation**" for the partial fulfilment of **M.Sc. (Biotechnology)** degree. She has been familiarized with the following techniques during this project:

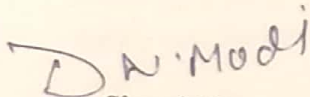
- Hematoxylin and Eosin staining
- Picrosirius red staining method
- Masson's Trichrome staining method
- Agarose gel electrophoresis
- qPCR

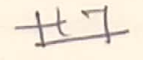
This carefully written report represents the experiments and literature related to the same carried out by her during the period from 1<sup>st</sup> December 2019 to 31<sup>st</sup> March 2020.

We found **Ms. Sana Boblai** to be a sincere and hardworking student. Her overall conduct was good.

PI: **Dr. Deepak Modi**

Co-guide: **Ms. Nancy Ashary**

  
Signature

  
Signature

Date: 14/11/2020

Seal of the institute