



Project report submitted in partial fulfilment of the requirements for awarding the degree of Bachelor of Science in Biotechnology

Title:

**Synthesis and amplification of cDNA from total cellular RNA using Reverse transcriptase-based RT-PCR**

Submitted to:

The Department of Biotechnology  
Sri Yerramilli Narayanamurthy College,  
Narasapuram.

Submitted by:

**Anandini Medidi** (Regd. No.: 11910030)  
**Bhargavi Lakshmi Yatham** (Regd. No.: 11910002)  
**Mary Joy Sree Polimati** (Regd. No.: 11910006)  
**Rohini Sailu Rayi** (Regd. No.: 11910014)  
**Suvarna Rani Kadali** (Regd. No.: 11910026)  
**Venkata Sai Tejasri Anga** (Regd. No.: 11910017)

Under the guidance of: **Dr. Ravikiran S. Yedidi**

The Center for Advanced-Applied Biological Sciences & Entrepreneurship  
(TCABS-E), Rajamahendravaram.



## CERTIFICATION

This is to certify that **Ms. Anandini Medidi, Ms. Bhargavi Lakshmi Yatham, Ms. Mary Joy Sree Polimati, Ms. Rohini Sailu Rayi, Ms. Suvarna Rani Kadali and Ms. Venkata Sai Tejasri Anga** (students from the department of Biotechnology, Sri Yerramilli Narayanamurthy College, Narasapuram) successfully completed the assigned bonafide project work titled: **“Synthesis and amplification of cDNA from total cellular RNA using Reverse transcriptase-based RT-PCR”** under the supervision and guidance of Dr. Ravikiran S. Yedidi, at The Center for Advanced-Applied Biological Sciences & Entrepreneurship (TCABS-E), Visakhapatnam branch for the partial fulfillment of Bachelor's degree in Biotechnology (2019-22).

Examiner 1:

HoD, Biotechnology  
Sri Yerramilli Narayanamurthy College

Examiner 2:



Head of the Dept. of Biotechnology  
**Sri Y.N. College (A)**  
Accredited by NAAC at 'A' Grade With A  
CGPA of 3.40  
Recognised by UGC as 'College With  
Potential for Excellence'  
**NARSAPUR - 534 275**



## CERTIFICATION

This is to certify that **Ms. Anandini Medidi, Ms. Bhargavi Lakshmi Yatham, Ms. Mary Joy Sree Polimati, Ms. Rohini Sailu Rayi, Ms. Suvarna Rani Kadali and Ms. Venkata Sai Tejasri Anga** (students from the department of Biotechnology, Sri Yerramilli Narayanamurthy College, Narasapuram) successfully completed the assigned bonafide project work titled: **“Synthesis and amplification of cDNA from total cellular RNA using Reverse transcriptase-based RT-PCR”** under my supervision and guidance at The Center for Advanced-Applied Biological Sciences & Entrepreneurship (TCABS-E), Visakhapatnam branch for the partial fulfillment of Bachelor’s degree in Biotechnology (2019-22).

**For: The Center for Advanced-Applied Biological Sciences & Entrepreneurship (TCABS-E), R.J.Y.**

Dr. Ravikiran S. Yerramilli

**FOUNDER**

Founder, Principal Scientist & Lead Instructor  
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## DECLARATION BY THE CANDIDATE

We hereby solemnly declare that the work in this project entitled "Synthesis and amplification of cDNA from total cellular RNA using Reverse transcriptase-based RT-PCR" is submitted for the partial fulfilment of B.Sc. Degree in Biotechnology and is an original piece of research work done by me along with my peers under the guidance of Dr. Ravikiran S. Yedidi at TCABS-E, Visakhapatnam branch. I declare that parts of this work has been worked on and was submitted by my peers to their respective educational institutions in India/abroad.

Anandini Medidi  
Bhargavi Lakshmi Yatham  
Mary Joy Sree Polimati  
Rohini Sailu Rayi  
Suvarna Rani Kadali  
Venkata Sai Tejasri Anga

M. Anandini  
Y. Bhargavi Lakshmi  
P. Joy Sree  
R. Rohini Sailu  
K. Suvarna Rani  
A. Teja Sai

Date: 19-07-22