

“Production or purification of Laccase from Bacteria co-culture”

**A Dissertation Report submitted to Govt. V.Y.T. PG. Autonomous College Durg
towards partial fulfilment for the requirements for the award of the degree of Master of
Science in Biotechnology**

Submitted By

TARUN KUMAR DARRO

M.Sc. Biotechnology



**GOVT. V.Y.T. PG
AUTONOMOUS COLLEGE
DURG, CHHATTISGARH, INDIA**

Govt. V.Y.T. PG. Autonomous College, Durg, Chhattisgarh – 491001

Under the guidance of

Dr.Chitranshu Pandey

(Research Scientist)



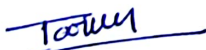
MRD LifeSciences Pvt. Ltd. Gomti Nagar, Lucknow, U.P-226010

2021-2023

CERTIFICATE

This is to certify that **Mr. Tarun Kumar Darro**, student of **M.Sc. Biotechnology** from **Govt. V.Y.T. PG Autonomous College, Durg, Chhattisgarh**, has undergone project entitled "**Production and purification of Laccase from bacterial co-culture**" with us for a period of three months from **June 10, 2022 to September 09, 2022**.

The data shall not be published anywhere in any form without the permission of Director, MRD LifeSciences Pvt. Ltd.



Tarun Kumar Darro

(Candidate)



Chitranshu Pandey

(Supervisor)

Date: 9/9/22



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DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that dissertation work entitled “*Production or purification of Laccase from Bacteria co-culture*” was carried out by **TARUN KUMAR DARRO** (Enroll. No.– HU/301/210890003), for the partial fulfillment of the award of the Masters of science in Biotechnology. The practical work for the project was carried out under the guidance and supervision of **Dr.Chitranshu Pandey** (Research Scientist) at **MRD LIFESCIENCES PVT. LTD. LUCKNOW (U.P.)**.

Ms. **TARUN KUMAR DARRO** is a Bonafide student of **GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE, DURG, (CHHATTISGARH)** and pursuing M.Sc. in Biotechnology in academic session (2021 – 2023).


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"New insights into clinical management for sickle-cell disease: uncovering the significance pathways affected by the involvement of sickle cell disease"

A Dissertation Report Submitted to GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG towards partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE in BIOTECHNOLOGY



Submitted by:

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M.Sc. Biotechnology,

Academic session 2021 - 2023

Enrollment No. - HU/339/180007107

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Under the guidance of

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DEPARTMENT OF BIOTECHNOLOGY

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This is to certify that dissertation work entitled “New insights into clinical management for sickle-cell disease: uncovering the significance pathways affected by the involvement of sickle cell disease”

was carried out by **TRILOK JANGHEL** (Enrollment No. - HU/339/180007107), for the partial fulfillment of the award of the Masters of science in Biotechnology. The practical work for the project was carried out under the guidance and supervision of Dr. USHA CHOUHAN at MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY BHOPAL.

Mr. TRILOK JANGHEL is a bonafied student of GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE, DURG, (CHHATTISGARH) and pursuing his M.Sc. in Biotechnology in academic session (2021 – 2023). We wish every success in his life.



डिप्टी प्रिन्सिपल (छत्तीसगढ़)

Dr. R. N. SINGH
(PRINCIPAL)

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Govt. V.Y.T. PG. Auto College,
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This is to certified that Mr. **TRILOK JANGHEL**, S/o **SHIV KUMAR JANGHEL** pursuing M.Sc. in Biotechnology of session 2021-2023 in the Department of Biotechnology, GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG, CHHATTISGARH has completed three month of Dissertation project (from 20th June to 20th September 2022), as a part of his course curriculum at the Department of Mathematics, Bioinformatics and Computer Applications, MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL MADHYAPRADESH under my supervision. During his training, he worked on the report titled

“New insights into clinical management for sickle-cell disease: uncovering the significance pathways affected by the involvement of sickle cell disease”

Further, during this period he was found punctual, hardworking and inquisitive.

I wish all the best for his future endeavors!

विद्या परं भूषणं

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Dr. Usha Chouhan
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MANIT Bhopal

“Bioremediation of cypermethrin pesticide through bacterial isolate”

A Dissertation Report submitted to Govt. V.Y.T. PG Autonomous College Durg
towards partial fulfillment for the requirements for the award of the degree of
Master of Science in Biotechnology

By
HIMANSHI VERMA
M.Sc. Biotechnology
2021-2023



Govt. V.Y.T. PG. Autonomous College, Durg, Chhattisgarh - 491001

Under the guidance of

Dr.Pallavi Sharma
(Research Scientist)

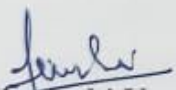


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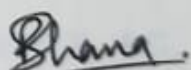
CERTIFICATE

This is to certify that **Ms. Himanshi Verma**, student of **M.Sc. Biotechnology** from **Govt. V.Y.T. PG Autonomous College, Durg, Chhattisgarh**, has undergone project entitled **“Bioremediation of Cypermethrin pesticide through the bacterial isolate”** with us for a period of three months from **June 10, 2022** to **September 09, 2022**.

The data shall not be published anywhere in any form without the permission of Director, MRD LifeSciences Pvt. Ltd.


Himanshi Verma

(Candidate)


Pallavi Sharma

(Supervisor)

Date: 09/09/2022



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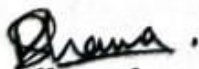
June 10, 2022 – September 09, 2022

Ms. Himanshi Verma

This is to certify that Ms. Himanshi Verma, student of M.Sc. Biotechnology from Govt. V.Y.T. PG Autonomous College, Durg, Chhattisgarh, has successfully completed her project entitled "Bioremediation of Cypermethrin pesticide through the bacterial isolate" with us for a period of three months for the partial fulfillment of her M.Sc. Biotechnology degree. The data embodied in this project report has been an outcome of the work she has done during the tenure of her training at MRD LifeSciences Pvt. Ltd.

The data shall not be published anywhere in any form without the permission of Director, MRD LifeSciences Pvt. Ltd.

Ms. Himanshi Verma is a sincere and diligent student. We wish her every success for her bright future.


Pallavi Sharma
Research Scientist


Manoj Verma
Director

MRD LifeSciences Pvt. Ltd.

“Uncovering the Hidden Risks of Arsenic and Investigation of MicroRNA and transcription factor and drug signature for DEGs exposure by Arsenic using Network Biology approach”

A Dissertation Report Submitted to GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG towards partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE in BIOTECHNOLOGY



Submitted by:

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Academic session 2021 - 2023

Enrollment No. - HU/339/180007115

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“Uncovering the Hidden Risks of Arsenic and Investigation of MicroRNA and transcription factor and drug signature for DEGs exposure by Arsenic using Network Biology approach”
Further, during this period he was found punctual, hardworking and inquisitive.

I wish all the best for his future endeavors!

विद्या परं भूषणं

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DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that dissertation work entitled “*Uncovering the Hidden Risks of Arsenic and Investigation of MicroRNA and transcription factor and drug signature for DEGs exposure by Arsenic using Network Biology approach*” was carried out by YUVRAJ VERMA (Enrollment No. - HU/339/180007115), for the partial fulfillment of the award of the Masters of Science in Biotechnology. The practical work for the project was carried out under the guidance and supervision of Dr. USHA CHOUHAN at MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY BHOPAL.

Mr. YUVRAJ VERMA is a bona fide student of GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE, DURG, (CHHATTISGARH) and pursuing his M.Sc. in Biotechnology in academic session (2021 – 2023). We wish every success in his life.


Dr. R. N. SINGH
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“Association of IL1RN 86bp VNTR gene polymorphism among patients with Type II Diabetes Mellitus”

A Dissertation Report Submitted to GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG towards partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE in BIOTECHNOLOGY



Submitted by:

ALIYA FIRDOUS

M.Sc. Biotechnology,

Academic session 2021 - 2023

Enrollment No. - HU/301/210890001

Under the guidance of

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Department of Molecular Biology

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Date: 01.09.2022

CERTIFICATE

This is to certify that the work presented in this dissertation entitled “ASSOCIATION OF IL1RN 86 bp VNTR GENE POLYMORPHISM AMONG PATIENTS WITH TYPE 2 DIABETIES” submitted for the partial fulfillment of the award of Master’s Degree in Science, Department of Biotechnology, V.Y.T. PG Autonomous College, Durg, Chhattisgarh State, has been carried out by Ms. Aliya Firdous (ID: 210801) under the supervision of Dr. M.L.N. Deepika from 8th June, 2022 to 1st September, 2022. This report incorporates original results of her study and it has not formed the basis of any degree or diploma in part or full prior to this date.

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This is to certify that dissertation work entitled “Association of IL1RN 86bp VNTR gene polymorphism among patients with Type II Diabetes Mellitus” was carried out by **ALIYA FIRDOUS** (Enroll. No. – HU/301/210890001), for the partial fulfillment of the award of the Masters of science in Biotechnology. The practical work for the project was carried out under the guidance and supervision of **Dr. M.L.N. DEEPIKA**, Assistant Professor (C), Department of Molecular Biology, Institute of Genetics and Hospital for Genetic Diseases, Osmania University, Hyderabad.

Miss ALIYA FIRDOUS is a bonafied student of GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE, DURG, (CHHATTISGARH) and pursuing her M.Sc. in Biotechnology in academic session (2021 – 2023). We wish every success in her life.


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