SUMO and SUMOylation in Plants: Ignored Arsenal to Combat Abiotic Stress

Project report submitted to the Central University of Punjab

For the award of

Master of Science in

Biochemistry

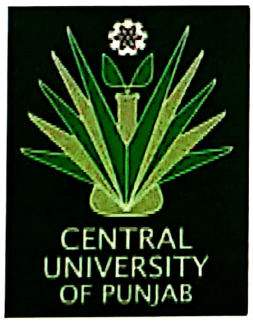
By

Shivam Chaudhary

(20mslsbc14)

Supervisor

Prof. Ramakrishna Wusirika



Department for Biochemistry

School of Basic Sciences

Central University of Punjab

June, 2022

Mosquito Repellent Properties of Plants and their Effects on Mosquitos and Humans

Project report submitted to Central University of Punjab

For the award of

Master of Science

In

Biochemistry

By

Priyanka

Supervisor

Prof. Ramakrishna Wusirika

Department of Biochemistry

School of Basic Sciences

Central University of Punjab

June 2022

Role of Endophytes in Abiotic Stress Tolerance

Project Report submitted to the Department of Biochemistry, Central University of Punjab

For the award of M.Sc. Biochemistry

Submitted by
Himanshi (20mslsbc27)

Under the Supervision of
Prof. Ramakrishna Wusirika

Department of Biochemistry
School of Basic Sciences
Central University of Punjab

Potential of Natural Compounds from Medicinal Plants for Treatment of Prioritized Disease Identified by World Health Organization

A project report submitted to the Central University of Punjab

For the award of

Master of Science

In

Department of Biochemistry

By

Ghanshyam Yadav

Supervisor

Prof. Ramakrishna Wusirika

Department of Biochemistry

School of Basic Sciences

Central University of Punjab

June 2022

Emergence of eco-friendly nano-biofertilizers for next generation agriculture

Project Report submitted to the Central University of Punjab

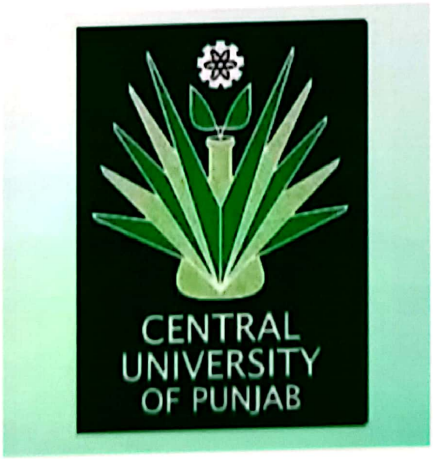
For the award of
Master of Science

in

Department of Biochemistry

By
Chitranshi Patel

Supervisor
Prof. Ramakrishna Wusirika

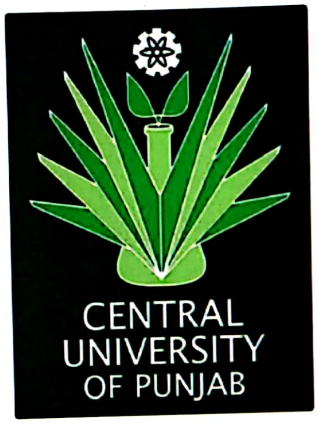


Department for Biochemistry
School of Basic Sciences
Central University of Punjab
July 2022

MUTATION-INDUCED DRUG RESISTANCE MECHANISM IN HIV-1 PROTEASE

Project Report submitted to The Department of Biochemistry,
Central University of Punjab

For the Award of M.Sc. Biochemistry



Submitted by
Nilottam Rana (20mslsbc18)

Under the Supervision of
Dr. Shashank Kumar

Department of Biochemistry
School of Basic Sciences
Central University of Punjab, Bathinda

IDENTIFICATION OF DIETARY PHYTOCHEMICAL-MODULATED MICRO-RNAS WITH THE POTENTIAL TO TARGET THE STEAROYL-COA DESATURASE-1

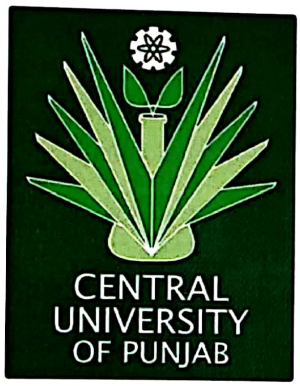
Project report submitted to The Department of Biochemistry
Central University of Punjab

For the Award of

Degree in Master of Science

In

Biochemistry



Submitted
by
Simun Rout (20mslsbc13)

Under the Supervision of
Dr. Shashank Kumar

Department of Biochemistry
School of Basic Sciences
Central University of Punjab, Bathinda

June, 2022

IDENTIFICATION OF DIFFERENTIALLY EXPRESSED MIRNAS AND THEIR TARGET GENES IN TAMOXIFEN AND FULVESTRANT DUAL RESISTANCE BREAST CANCER CELL LINE

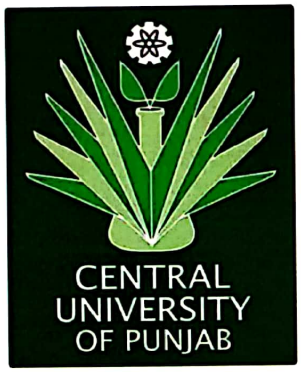
Project report submitted to The Department of Biochemistry
Central University of Punjab

For the Award of

Degree in Master of Science

In

Biochemistry



Submitted by
Shivangi Singh (20mslsbc10)

Under the Supervision of
Dr. Shashank Kumar

Department of Biochemistry
School of Basic Sciences
Central University of Punjab, Bathinda

June, 2022

Role of thymidylate synthase gene polymorphism in cancer: Recent developments

Project report submitted to Central University of Punjab

For the Award of

The Degree in Master of science

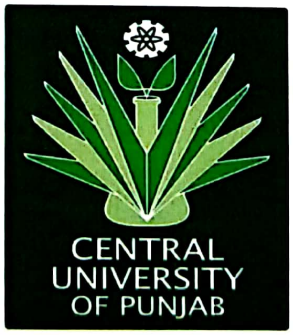
in Biochemistry

Submitted *by*

Sailendra Kumar Mohanty (20mslsbc05)

Under the Supervision of

Dr. Shashank Kumar



Department of Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

June, 2022

IDENTIFICATION OF MICRO-RNA AND RELATED HUB GENES ASSOCIATED WITH BREAST CANCER STEMNESS

Project Report submitted to The Department of Biochemistry
Central University of Punjab

For the Award of
Degree in Master of Science in Biochemistry

Submitted by
Kalamati Sravani (20mslsbc09)

Under the Supervision of
Dr. Shashank Kumar

Department of Biochemistry
School of Basic Sciences
Central University of Punjab, Bathinda

June 2022

COMPUTER BASED IDENTIFICATION OF NOVEL NATURAL ANTI-APOPTOTIC PROTEIN INHIBITORS

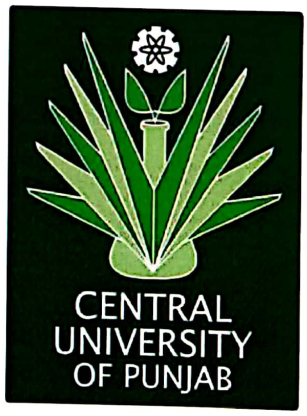
Project report submitted to The Department of Biochemistry
Central University of Punjab

For the Award of

Degree in Master of Science

In

Biochemistry



Submitted
By
Sarbajit Dey (20mslsbc07)

Under the Supervision of
Dr. Shashank Kumar

Department of Biochemistry
School of Basic Sciences
Central University of Punjab, Bathinda

June 2022

T-cell associated lncRNAs as mediators of downstream microRNA dysregulation in Psoriasis

Project submitted to Central University of Punjab

For the award of

M.Sc. Life Sciences

(Specialization in Biochemistry)

By Neekita

Supervisor

Dr. Manju Jain

Department of Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

June 2022

Altered Thymic Cellular Crosstalk
The Way Infectious Agents Intervene

Project submitted to Central University of Punjab

For the award of

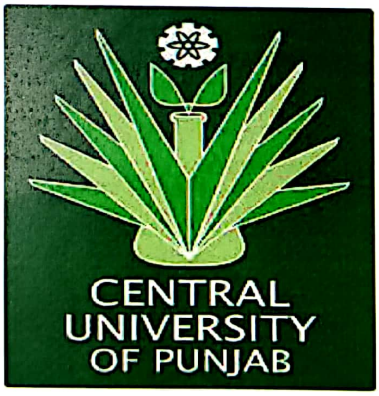
M.Sc. Life Sciences (specialization in Biochemistry)

In

Department of Biochemistry

By

Hassan Rub



Supervisor

Dr. Manju Jain

Department of Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

June 2022

Histopathological landscape in Psoriasis

Project submitted to Central University of Punjab

For the award of

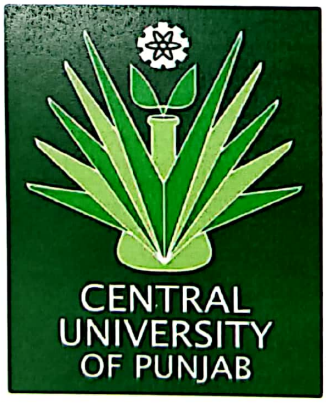
M.Sc. Life Sciences (Specialization in Biochemistry)

By

Vadithe Anji Naik

Supervisor

Dr. Manju Jain



Department of Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

June 2022

T-Cell metabolism in Psoriasis: How much we know?

Project submitted to Central University of Punjab

For the award of

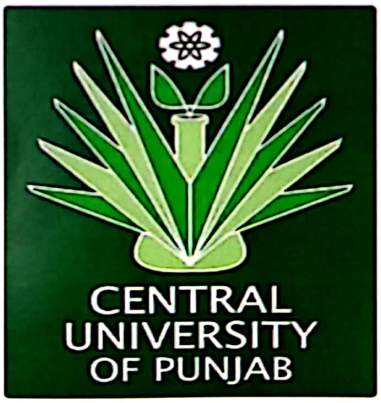
M.Sc. Life sciences (Specialization in Biochemistry)

By

HD Rajashekhar

Supervisor

Dr. Manju Jain



Department of Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

June 2022

ADAPTATION OF CRISPR/Cas9 FOR *Leishmania* GENOME MANIPULATION

Project submitted to Central University of Punjab

For the Award of

Master of Science

In

Department of Biochemistry

By

Suraj Adhikari

Supervisor

Dr. Manju Jain

Department of Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

July 2022

Plant-derived Immune-modulators for reconstitution of T cell Immunity: What we know and what we do not?

Project submitted to Central University of Punjab

For the award of

M.Sc. Life Sciences (specialization in Biochemistry)

In

Department of Biochemistry

By

Divyadyuti Ukil

Supervisor

Dr. Manju Jain

Department of Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

June 2022

Lipid Degradation Pathways in Yeast: Exploring Triacylglycerol Lipases

Project report submitted to the Central University of Punjab
for the award of

Master of Science
in
Biochemistry

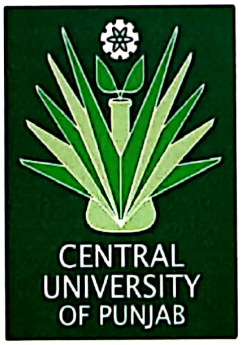
by

Abhijit Nayek

20mslsbc30

Supervisor

Dr. Vinay Kumar Bari



Department of Biochemistry
School of Basic Sciences
Central University of Punjab
VPO- Ghudda, Bathinda
July, 2022

Blossom End-Rot: A calcium deficiency disorder in tomato fruit

A Project Report Submitted to Central University of Punjab

For The Award of

The Degree of Master of Sciences

In

Biochemistry

By

Khageswar Sethi

20mslsbc11

Supervisor

Dr. Vinay Kumar Bari

Department of Biochemistry

School of Basic and Applied Sciences

Central University of Punjab

VPO- Ghudda, Bathinda

June, 2022

Salt stress homeostasis in *Saccharomyces cerevisiae*

Project submitted to the Central University of Punjab

For the award of

Master in Science

In

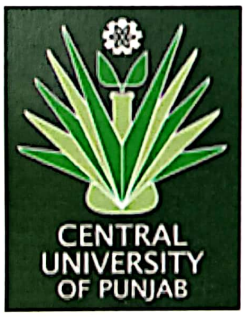
Life Science specialization in Biochemistry

By

Subham Mondal

Supervisor

Dr. Vinay Kumar Bari



Department for Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

August, 2022

Protein-Protein Interaction techniques in *Saccharomyces cerevisiae*

A Project Report Submitted to Central University of Punjab

For The Award of

The Degree of Master of Sciences

In

Biochemistry

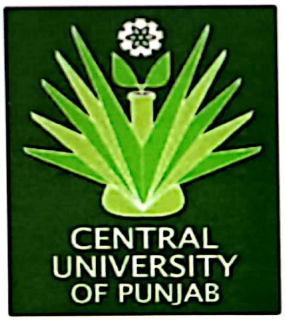
By

Shreya Gandotra

20mslsbc36

Supervisor

Dr. Vinay Kumar Bari



Department of Biochemistry

School of Basic and Applied Sciences

Central University of Punjab

VPO- Ghudda, Bathinda

June 2022

Mechanism of anti-fungal drug Amphotericin B susceptibility

A Project Report Submitted to Central University of Punjab

For The Award of

The Degree of Master of Sciences

In

Life Sciences

(Specialization in Biochemistry)

By

Lailema Ahmady

20mslsbc41

Supervisor

Dr. Vinay Kumar Bari

Department of Biochemistry

School of Basic Sciences

Central University of Punjab

VPO- Ghudda, Bathinda

July, 2022

snoRNAs as Mediators of Cellular Stress

Project report submitted to the Central University of Punjab

For The Award of

Degree of Master of Sciences

In

Biochemistry

By

Nikhil Verma

(20mslsbc17)

Supervisor

Dr. Ravindresh Chhabra

Department of Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

June 2022

डॉ. रवींद्रेश छाबड़ा / Dr. Ravindresh Chhabra
सहायक प्रोफेसर / Assistant Professor
जैवरसायन विभाग / Department of Biochemistry
पंजाब केन्द्रीय विश्वविद्यालय / Central University of Punjab
ग्राम व डाकघर घुदा (बठिंडा) / Village Ghudda (Bathinda)
पंजाब, भारत / Punjab, India-151401

LOSS OF IMMUNOSURVEILLANCE IN CARCINOGENESIS AND ITS THERAPEUTIC IMPLICATIONS

Project submitted to the Central University of Punjab

For the award of

Master in Science

In

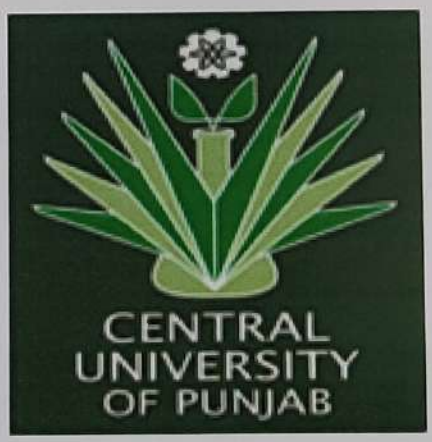
Life Science specialization in Biochemistry

By

Ipsita Kar

Supervisor

Dr. Ravindresh Chhabra



Department for Biochemistry

School of Basic and Applied Sciences

Central University of Punjab, Bathinda

June 2022

ROLE OF ESTROGEN AND PROGESTERONE ON CERVICAL CANCER

Project submitted to the central university of Punjab

For the award of Master in science in

Life Science specialization in Biochemistry

By

VARSHA KAUSHIK

Supervisor

DR. RAVINDRESH CHHABRA

Department for Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

June 2022

डॉ. रवींद्रेश छाबड़ा / Dr. Ravindresh Chhabra
सहायक प्रोफेसर / Assistant Professor
जैवरसायन विज्ञान विभाग / Department of Biochemistry
पंजाब केन्द्रीय विश्वविद्यालय / Central University of Punjab
ग्राम व डाकघर घुद्दा (बठिंडा) / VPO Ghudda (Bathinda)
पंजाब, भारत / Punjab, India-151401

Role of YTH Domain Family (YTHDF) Proteins in Human Physiology and Pathology.

Project submitted to the Central University of Punjab

For the award of

Master in Science

In

Biochemistry

BY

Aju Kisan

Supervisor

Dr. Ravindresh Chhabra

Department of Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

July, 2022

snoRNAs: Novel regulators of blood malignancies

Project submitted to the Central University of Punjab

For The Award of

Degree of Master of Sciences

In

Biochemistry

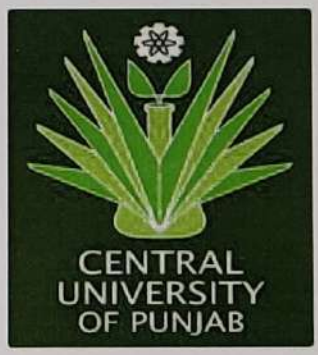
By

Mohamed Fahad C

(20mslsbc02)

Supervisor

Dr. Ravindresh Chhabra



Department of Biochemistry

School of Basic Sciences

Central University of Punjab, Bathinda

June 2022

डॉ. रवींद्रेश छाबडा / Dr. Ravindresh Chhabra
सहायक पोफेसर / Assistant Professor
जैवरसायन विज्ञान विभाग / Department of Biochemistry
पंजाब केन्द्रीय विश्वविद्यालय / Central University of Punjab
ग्राम व डाकघर घुद्दा (बठिंडा) / VPO Ghudda (Bathinda)
पंजाब, भारत / Punjab, India-151401

EMERGING ROLE OF mRNA METHYLATION IN REGULATING THE HALLMARKS OF CANCER

Project submitted to

Department of Biochemistry

Central University of Punjab

For the award of

Master in Science Biochemistry

Submitted By

Gargi

Under the Supervision of

Dr. Ravindresh Chhabra

Department for Biochemistry

School of Basic and Applied Sciences

Central University of Punjab, Bathinda

Punjab, India- 151401

June, 2022

डॉ. रवींद्रेश छाबड़ा / Dr. Ravindresh Chhabra
सहायक प्रोफेसर / Assistant Professor
जैवरसायन विज्ञान विभाग / Department of Biochemistry
पंजाब केन्द्रीय विश्वविद्यालय / Central University of Punjab
ग्राम व डाकघर घुदा (बठिंडा) / VPO Ghudda (Bathinda)
पंजाब, भारत / Punjab, India-151401