2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

The student centric methods are successfully adopted by the college. The students are motivated to join highly reputed research institutes and are made to interact with highly distinguished scientists all over the globe. In this way students are made to understand the subject and problem solving methodology practically in various research organizations.

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
TIRUPATI
Institute under the ministry of Human Resourses Development
Government of India
Karakambadi Road, Mangalam P.O Tirupati

CERTIFICATE

This is to certify that **Mr. ABIN. P. GEORGE.,** Reg. No: YMB13101 has carried out the project work entitled **"Cloning and Expression of Plasmodium falciparum AP2 gene "** at the Department of Biology IISER Tirupati, in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-2018.

Place: Tirupati

Date:

Dr. Suchi Goel
Assistant Professor (Dept. of Biology)
Indian Institute of Science Education and Research
Tirupati - 517507, Andhra Pradesh, India.

Project Supervisor

21-5-2018

Course Co-ordniator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

29/5/18

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
MYSORE - 570 005

Examiners

1) valued

2)

DECLARATION

I, **Abin. P. George.,** Reg. No. YMB13101 do hereby declare that the project work entitled **"Cloning and Expression of Plasmodium falciparum AP2 gene"** is a bonafide work carried out by me under the guidance of **Dr. Suchi Goel.**, Assistant Professor Department of Biology, in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Tirupati

Date:

(ABIN. P. George)
Reg No. YMB13101

SER PUNE

Indian Institute of Science Education and Research
(IISER – PUNE)
IISER Campus, Dr. Homi Bhabha Road, Pashan, Pune 411 008.

CERTIFICATE

This is to certify that the Minor Research Project entitled **"Expression analysis of *collgen1a* and *twist3* during scale development in wildtype and Dermo mutant zebrafish"**submitted by **Ms. Anusha G.C.** in partial fulfillment for the award of M.Sc in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Dr. TRESSA JACOB

DECLARATION

I, **Anusha G.C** Reg. No. YMB13102 do hereby declare that the project work entitled "**Expression Analysis of *Collagen1a* And *Twist3* During Scale Development In Wildtype And Dermo Mutant Zebrafishes (*Danio rerio*)**" is a bonafide work carried out by me under the guidance of **Dr. Tressa Jacob**, Independent Scientist (Biology), IISER, Pune in partial fulfillment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Mysore

Date: 19/5/18

Anusha G.C

ANUSHA G.C

YMB13102

RGCB
DISCOVERIES FOR A BETTER TOMORROW

Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram 695014, Kerala State, India.
An Autonomous National Institute for Discovery, Innovation & Translation in Biotechnology and Disease Biology.
Government of India, Ministry of Science & Technology, Department of Biotechnology.

राजीव गाँधी जैव प्रौद्योगिकी केन्द्र, तिरुवनन्तपुरम 695 014, केरल, भारत.
जैवप्रौद्योगिकी और रोग जीवविज्ञान में आविष्कार, नवीनता एवं अनुवाद की स्वायत्त राष्ट्रीय संस्थान,
भारत सरकार विज्ञान एवं प्रौद्योगिकी मंत्रालय, जैवप्रौद्योगिकी विभाग.

Dr. S Manjula
Scientist EII
Plant Disease Biology

CERTIFICATE

This is to certify that the project work titled "**Cloning and Characterization of Aspartic Proteinase Nepenthesin Like (*PnAPN*) cDNA from *Piper nigrum L*"**, is an authentic record of the work carried out by **Ms.Athira P.N.** in the Plant Disease Biology lab under my guidance and supervision during the period 09.01.2018 to 4.05.2018, in partial fulfilment of the requirement of the award of Degree in Master of Science in Molecular Biology (Integrated) from Yuvaraja's College, Mysore, affiliated to University of Mysore.

Signature of the guide

4-05-2018
Thiruvananthapuram

S Manjula

RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY
DEPT OF BIOTECHNOLOGY
MINISTRY OF SCIENCE & TECHNOLOGY
GOVT OF INDIA
THIRUVANANTHAPURAM-695 014

पैकाट की ओ... फोन: 0471-2529400 (30 लाईनें), 2347975, 2348104, 2348753, 2345899

DECLARATION

I, **Athira P.N**, Reg. No. YMB13104 do hereby declare that the project work entitled "Cloning And Characterization of Aspartic Proteinase Nepenthesin Like (pnAPN) cDNA From *Piper nigrum* L." is a bonafide work carried out by me under the guidance of **Dr. S. Manjula**, Scientist E-II, Department of Plant Disease Biology, Rajiv Gandhi Centre For Biotechnology, in partial fulfillment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-2018.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Mysore

Date: 30/04/2018

Athira

(Athira P.N)

केंद्रीय रेशम उत्पादन अनुसंधान एवं प्रशिक्षण संस्थान
Central Sericultural Research and Training Institute

केंद्रीय रेशम बोर्ड/Central Silk Board
भारत सरकार/Govt. of India

श्रीरामपुरा, मानंदवाडि रोड,
Srirampura, Manandavadi Road,
मैसूर/MYSORE - 570 008

CERTIFICATE

This is to certify that the dissertation entitled **"Identification and characterization of fungus associated with mulberry root rot disease from HD Kote for transcriptome studies"** submitted by **Ms. Bharathi. S** in partial fulfilment for the award of MSc in Molecular Biology (Integrated) degree of University of Mysore is based on the studies carried out by her during the period from January 19th 2018 to April 19th 2018 under my guidance and supervision. It is further certified that this dissertation / any other part of thesis has not been submitted elsewhere for any other degree. The results of this research work are not to be published by the candidate or anyone else without the specific return permission of the undersigned.

Place: Mysuru

Date: 23/04/2018

B. N. G

Dr.Gnanesh.B.N
DST Ramanujan Fellow
Molecular Biology Lab-1
CSRTI, Mysuru 570 008

DECLARATION

Ms. Bharathi S, hereby declare that, the project work entitled **"Identification and characterization of fungus associated with mulberry root rot disease from HD Kote for transcriptome studies"** is a bonafide work carried out by me under the guidance of Dr. Gnanesh B.N, DST Ramanujan Fellow, Molecular Biology Laboratory -1, CSRTI, Mysore, in partial fulfilment of academic requirements for the award of the degree in Master of Science in Molecular Biology (Integrated) of University of Mysore Mysuru, during the year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University

Date: 19/05/2018

Place: Mysuru

Bhat S

(BHARATHI.S)

Reg.No. YMB13105

Idian Institute Of Science

Department of Biochemistry

Bangalore-560 012, India

Dr. Sandeep M. Eswarappa
Assistant Professor
E-mail: sandeep@biochem.iisc.ernet.in

Tel. :91-80-22932881
Fax :91-8023600814

CERTIFICATE

This is to certify that the project entitled "Cloning And expression of Human *Neuronatin* In Mammalian cells "submitted by **Ms. Chaithanya G B.** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Signature of the Guide

Place: Bangalore

Date: 15/05/2018

(Dr. Sandeep M. Eswarappa)

Dr. Sandeep M. Eswarappa
Assistant Professor
Department of Biochemistry
Indian Institute of Science, Bangalore-12

DECLARATION

I, **Chaithanya G B.**, Reg. No. YMB13106 do hereby declare that the project work entitled "Cloning And expression of Human *Neuronatin* In Mammalian cells "is a bonafide work carried out by me under the guidance of **Dr. Sandeep M.Eswarappa,** Assistant Professor, Dept of Biochemistry, Indian Institute of Science, Bangalore, in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Mysore

Date: 16/05/2018

Chaithanya G.B

(Chaithanya G B.)
Reg. No. YMB13106

केंद्रीय रेशम उत्पादन अनुसंधान एवं प्रशिक्षण संस्थान
Central Sericultural Research and Training Institute

केंद्रीय रेशम बोर्ड/Central Silk Board
भारत सरकार/Govt. of India

श्रीरामपुरा, मानंदवाडी रोड,
Srirampura, Manandavadi Road,
मैसूर/MYSORE - 570 008.

CERTIFICATE

This is to certify that the dissertation entitled **"Molecular Diagnosis of Mulberry Root-Knot Nematode for Transcriptome Studies"** submitted by **Mr. Jonah Jin** partial fulfilment for the award of MSc in Molecular Biology (Integrated) degree of University of Mysore is based on the studies carried out by him during the period from January 17th 2018 to April 17th 2018 under my guidance and supervision. It is further certified that this dissertation / any other part of thesis has not been submitted elsewhere for any other degree. The results of this research work are not to be published by the candidate or anyone else without the specific return permission of the undersigned.

Place: Mysuru

Date: 23/04/2018

B.N.G

Dr. Gnanesh.B.N.
DST Ramanujan Fellow
Molecular Biology Lab-1
CSRTI,Mysuru 570 008

DECLARATION

Jonah J, hereby declare that, the project work entitled **"Molecular Diagnosis of Mulberry Root-Knot Nematode for Transcriptome Studies"**is a bonafidework carried out by me under the guidance of Dr. Gnanesh B.N., DST Ramanujan Fellow, Molecular Biology Laboratory -1, CSRTI, Mysore, in partial fulfilment of academic requirements for the award of the degree in Master of Science in Molecular Biology (Integrated) of University of Mysore Mysuru,during the year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University

Date:

Place: Mysuru

Jonah Judaist

(JONAH J)

Reg. No. YMB13107

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
PUNE
Institute under the ministry of Human Resources Development
Government of India

CERTIFICATE

This is to certify that **Ms. Kannika B.R.,** Reg. No: YMB13108 has carried out the project work entitled **"Cell proliferation analysis during scale development in wild type and dermo mutant zebrafish *(Danio rerio)"*** at the Department of Biology IISER PUNE, in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-2018.

Place: PUNE
Date: 01-5-2018

01-5-2018

Course Co-ordniator
Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

29/5/18

Principal
Principal
Yuvaraja's College (Autonomous)
University of Mysore
MYSORE - 570 005

Examiners

1)

2)

DECLARATION

I, **Kannika B.R.**, Reg. No. YMB13108 do hereby declare that the project work entitled "**Cell proliferation analysis during scale development in wild type and dermo mutant zebrafish *(Danio rerio)***" is a bonafide work carried out by me under the guidance of **Dr. Tressa Jacob.**, WOS-A DST Scientist, Department of Biology, in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: PUNE

Date:

(**Kannika B.R**)
Reg No. YMB13108

DEPARTMENT OF MOLECULAR REPRODUCTION, DEVELOPMENT AND GENETICS
INDIAN INSTITUTE OF SCIENCE
BANGALORE - 560 012, INDIA

Dr. Annapoorni Rangarajan
Professor
Telephone : + 91 80 22933263
Email : anu@iisc.ac.in

Departmental Office
PHONE: + 91 80 22932659
Fax : + 91 80 23600999

CERTIFICATE

This is to certify that the project work entitled **"Cloning and Expression of eIF4GII to study the role in matrix deprived condition"** submitted by Mr. Madhusoodhanan S M, Reg.No. YMB13109 to Yuvaraja's college, University of Mysore , Mysore -570005, for the award of the Degree of Master of Science in Molecular Biology (Integrated) is original work, based on the results of the experiments and investigation carried out in dependently by him during the period (January 2018 to May 2018) of study in my laboratory.

This is also to certify that the above- said work has not been previously submitted for the award of any degree, diploma, and fellowship in any India nor foreign university.

Date: 3rd May 2018.
Place: Bangalore.

Signature of the Guide
(Prof. Annapoorni Rangarajan)

Dr. Annapoorni Rangarajan
Professor
Dept. of Molecular Reproduction, Development & Genetics
Indian Institute of Science
Bangalore - 560 012, India

DECLARATION

I, **MADHUSOODHANAN S.M.,** Reg. No. YMB13109 do hereby declare that the project work entitled "**CLONING AND EXPRESSION OF eIF4GII TO STUDY THE ROLE IN MATRIX DEPRIVED CONDITION**" is a bonafide work carried out by me under the guidance of **Dr.Annapoorni Rangarajan,** Associate Professor, Department of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bangalore, in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

(MADHUSOODHANAN S M)

Reg.No. YMB13109

Place: Mysore

Date: 10-5-2018

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

"*GAL1* 2-deoxy galactose system as a tool to study genome instability in *Candida tropicalis*."

Major Project Report submitted in
partial fulfillment of the
requirement of the Award of

M.Sc. in Molecular Biology (Integrated)

Submitted by

MEDHA KARNIK S.R.

YMB13110

Under the Guidance of

Prof. Kaustuv Sanyal

Molecular Mycology Lab

Jawaharlal Nehru Centre for Advanced Scientific Research

Bengaluru- 560064

Department of Molecular Biology

Yuvaraja's College (Autonomous)

(A CONSTITUENT AUTONOMOUS COLLEGE OF THE UNIVERSITY OF MYSORE)

Mysore – 570 005

May 2018

DECLARATION

I, **Medha Karnik S.R.,** Reg. No. YMB13110 do hereby declare that the project work entitled **"GAL1 2-deoxy galactose system as a tool to study genome instability in *Candida tropicalis*"** is a bonafide work carried out by me under the guidance of **Prof. Kaustuv Sanyal,** Professor, Molecular Mycology Department, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru, in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Mysore

Date: 18-05-18

(**MEDHA KARNIK S.R.**)
Reg. No. YMB13110

Department of Microbiology and Cell Biology
Indian Institute of Science
Bangalore- 560012

Dr. Dipshikha Chakravortty
Professor

Tel - 080 2293 2842
Fax - 080 2360 2697
Email - dipa@iisc.ac.in

CERTIFICATE

This is to certify that this thesis entitled "**Study of inhibition of biofilm by *Salmonella* Typhimurium *ΔyjiY* culture supernatant**", submitted by **Ms. Prerana M.**, is a bonafide work carried out in my laboratory under my guidance and preceptorship for partial fulfilment of the requirements for the award of the **Integrated M.Sc., Department of Molecular Biology, Yuvaraja's College, Mysore.**

This work is a part of an ongoing project at the Molecular Pathogenesis Laboratory, Indian Institute of Science and should not be presented/published elsewhere. **The IPR of this work rests with the Indian Institute of Science.**

Dr. Dipshikha Chakravortty
Professor
Date: May 15, 2018
Place: Bangalore

Dipshikha Chakravortty, Ph.D
Professor
Dept. of Microbiology & Cell Biology
Indian Institute of Science
Bangalore - 560 012

DECLARATION

I, **PRERANA.M,** Reg. No. YMB13111 do hereby declare that the work entitled **"Study of Inhibition of Biofilm by *Salmonella* Typhimurium *ΔyjiY* culture supernatant"** is a bonafide work carried out by me under the guidance of Prof. Dipshikha Chakravortty, Department of Microbiology and Cell Biology, Indian Institute of Science, Bangalore, in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Mysore

Date: 18|05|2018

(**PRERANA.M**)
Reg No. YMB13111

IBAB
Institute of Bioinformatics and Applied Biotechnology

CERTIFICATE

This is to certify that the project entitled **"INVESTIGATION OF EFFECT OF NOVEL HSP90 INHIBITOR ON VARIOUS CANCER CELL LINES"** submitted by Mr. **RAGHUNANDAN M** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the work carried out by him under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

17/5/18

BIOINFORMATICS INSTITUTE OF BANGALORE TECHNOLOGY

(Dr. Bibha Choudhary)
Faculty Scientist,
IBAB,Bengaluru

DECLARATION

I, **RAGHUNANDAN M,** Reg. No. YMB13112 do hereby declare that the project work entitled **"INVESTIGATION OF EFFECT OF NOVEL HSP90 INHIBITOR ON VARIOUS CANCER CELL LINES"** is a bonafide work carried out by me under the guidance of **Dr. BIBHA CHOUDHARY,** Faculty Scientist, Institute of Bioinformatics and Applied Biotechnology, Bangalore, in partial fulfillment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Mysore

Date: 19.05.2018

(**RAGHUNANDAN M**)
Reg. No. YMB13112

Deepak Kumar Saini, Ph.D.
दीपक कुमार सैनी
Associate Professor | सह आचार्य
Indian Institute of Science | भारतीय विज्ञान संस्थान

Phone: +91 80 22932574
Fax: +91 80 23600999
Email: **deepak@mrdg.iisc.ernet.in**

CERTIFICATE

This is to certify that the project entitled "To probe crosstalk *in vivo* in *Mycobacterium tuberculosis* Two Component System "submitted by Ms. **Ramya R.** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Place: Bangalore

Date:

(Dr. Deepak K Saini)

Guide

दीपक कुमार सैनी, पीएचडी / Deepak Kumar Saini, Ph.D
सह प्राध्यापक / Associate Professor
अणविक प्रजनन, विकास एवं अनुवंशिकी
Molecular Reproduction, Development & Genetics
भारतीय विज्ञान संस्थान / Indian Institute of Science
बेंगलुरु – ५६० ०१२ / Bengaluru – 560 012

DECLARATION

I, **Ramya R.**, Reg. No. YMB13113 do hereby declare that the project work entitled "To probe crosstalk *in vivo* in *Mycobacterium tuberculosis* Two Component System "is a bonafide work carried out by me under the guidance of **Dr. Deepak K Saini,** Associate Professor, MRDG, Indian Institute of Science, Bangalore, in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Mysore

Date: 16/05/2018

(RAMYA R.)
Reg. No. YMB13113

Department of Biochemistry
Indian Institute of Science
Bangalore - 560 012, India

Phone : 91-80-2293 3055
e-mail : nganesh@biochem.iisc.ernet.in
ganesh.hms@gmail.com
website : http://biochem.iisc.ernet.in/Ganesh/index.html

Ganesh Nagaraju, Ph. D.
Associate Professor

15th May 2018

CERTIFICATE

This is to certify that the project entitled **"Construction of a plasmid for the depletion of BLM Helicase"** submitted by **Ms. SAMHITHA URS R** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Prof. GANESH NAGARAJU

N. Ganesh

Ganesh Nagaraju, Ph.D.
Associate Professor
Department of Biochemistry
Indian Institute of Science
Bangalore - 560 012, India

DECLARATION

I, **SAMHITHA URS R**, Reg. No. YMB13114 do hereby declare that the project work entitled **"Construction of a plasmid for the depletion of BLM Helicase"** is a bonafide work carried out by me under the guidance of **Prof. GANESH NAGARAJU**, Associate Professor, Department of Biochemistry, Indian Institute of Science, Bangalore, in partial fulfillment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Mysore

Date: 15-05-2018

(SAMHITHA URS R)
Reg. No. YMB13114

NCCS
राष्ट्रीय कोशिका विज्ञान केन्द्र
National Centre For Cell Science
जैवप्रौद्योगिकी विभाग, भारत सरकार का स्वायत्त संस्थान
(An Autonomous Institution of the Department of Biotechnology, Government of India)

CERTIFICATE

This is to certify that the project entitled "**Understanding the role of FBXL6 in PUMA regulation**" submitted by Ms. **Sanjana Shajan** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision at the National Centre for Cell Science, Pune. It is further certified that this dissertation work/any other part thereof should not be submitted elsewhere for any other degree or publication without prior permission. This is a property of National Centre for Cell Science.

Manas Kr. Santra

(Dr. Manas Kumar Santra)
Guide

14/05/2018

एनसीसीएस कॉम्प्लेक्स, पो. बॉ. नं. ४०, गणेशखिंड पी. ओ., पुणे ४११ ००७. महाराष्ट्र, भारत
NCCS Complex, P.B. No. 40, Ganeshkhind P. O., Pune - 411 007. Maharashtra, India
दूरभाष / Tel.: (020) 25708000 फैक्स / Fax : 91 (020) 25692259
ई मेल / E- mail : infonccs@giaspn01.vsnl.net.in
वेबसाईट / Website : http://www.nccs.res.in

DECLARATION

I, **Sanjana Shajan** , Reg. No. YMB13115 do hereby declare that the project work entitled "Understanding the role of FBXL6 in PUMA regulation" is a bonafide work carried out by me under the guidance of **Dr. Manas Kumar Sandra**, scientist of Department of cancer and chronic diseases , in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-2018.

The work submitted in this dissertation is the result of my own investigation at National Centre for Cell Science, Pune will not be communicated without prior permission of Dr. Manas Kumar Santra and this report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place :Mysuru

Date :19.5.2018

(SANJANA SHAJAN)
Reg. No. YMB13115

UDSC

UNIVERSITY OF DELHI, SOUTH CAMPUS
Department of Genetics
Benito Juarez Road,
Dhaula Kuan,
New Delhi - 110 021 INDIA

Tel : 91-11-24157179 (Ext. 179)
Fax : 91-11-24112761
E-mail : udscgenetics@gmail.com

Ref. SDC / Genetics /

May 5, 2018

CERTIFICATE

This is to certify that the project entitled **"To establish genotype-phenotype correlations in i) an inborn error of metabolism and ii) Ayurvedic prakritis: Two contrasting studies"** submitted by Ms. **Shreya Dinesh** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation has not been submitted elsewhere for any other degree.

Thelma BK

B. K. Thelma
Professor

DECLARATION

I **SHREYA DINESH,** Reg. No. YMB13116 do hereby declare that the project work entitled **"To establish genotype-phenotype correlations in i) an inborn error in metabolism and ii) AyurvedicPrakritis: Two contrasting studies"**is a bonafide work carried out by me under the guidance of **Proff.B.K.Thelma** Principal investigator, Department of Genetics, University of Delhi South campus, in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Mysore

Date: 19·05·2018

(**SHREYA DINESH**)

Reg. No. YMB13116

DBGL

Department of Molecular Reproduction Development and Genetics
Indian Institute of Science
Bangalore-560 012, India.

Dr. Upendra Nongthomba Ph.D.
Associate Professor
https://dbgl.wordpress.com

Phone: +91 080 22933258
Fax: +91 080 23600999
E-mail: upendra@iisc.ac.in

This is to certify that the dissertation entitled **"Raising of Mlp60A polyclonal antibodies in order to study its role in muscle remodelling and *Mlp60A* knockdown experiments"** submitted by **Mr. Suraj S. K.,** Register No. YMB13117 to the Yuvaraja's college, University of Mysore, Mysore-570005, for the award of the Degree of Master of Science in Molecular Biology (Integrated) is his original work, based on the results of the experiments and investigation carried out independently by him during the period (January 2018 to May 2018) of study under my guidance.

This is also to certify that the above-said work has not previously been submitted for the award of any degree, diploma, fellowship in any Indian or foreign university.

Date: 15-05-2018
Place: Bangalore

Signature of the Guide
(Prof. Upendra Nongthomba)

प्रो. उपेन्द्र नोंगोम्बा / Prof. Upendra Nongthomba, Ph.D
सह प्राध्यापक / Associate Professor
आणविक जनन विकास एवं आनुवंशिकी
Molecular Reproduction, Development & Genetics
भारतीय विज्ञान संस्थान / Indian Institute of Science
बेंगलूर, भारत / Bangalore - 560 012, India

DECLARATION

I, **SURAJ S K**, Reg. No. YMB13117 do hereby declare that the project work entitled **"Raising of Mlp60A polyclonal antibodies in order to study its role in muscle remodelling and *Mlp60A* knockdown experiments"** is a bonafide work carried out by me under the guidance of **Prof. Upendra Nongthomba,** Associate Professor, Department of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bangalore, in partial fulfillment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Mysore

Date: 19-05-2018

(SURAJ S K)
Reg. No. YMB13117

Indian Institute of Science Education and Research Tirupati
Institute under the Ministry of Human Resources
Development, Government of India
Karakambadi Road, P.O. Mangalam, Tirupati 517507

CERTIFICATE

This is to certify that the thesis entitled "**Cloning of Human Butyrophilin Subfamily 2 Member 1 (BTN2A1) Promoter**" is a record of original project work done by **Ms. Swathi K (YMB13118)** , under my supervision during the period of JAN 2018 to APR 2018 in my laboratory at IISER Tirupati , submitted for the fulfilment of the requirement for the award of degree of integrated M.Sc in molecular biology by university of Mysore.

Place: TIRUPATI
Date: 13-05-2018

Sivakumar Vallabhapurapu, Ph.D.
Associate Professor (Dept. of Biology)
Indian Institute of Science Education and Research Tirupati
Tirupati - 517507, Andhra Pradesh, India.
(Project supervisor)

Course coordinator

Examiner

Principal

DECLARATION

I, **Swathi. K** Reg. No. YMB13118 do hereby declare that the project work entitled **"Cloning of Human Butyrophilin Subfamily 2 Member 1 (BTN2A1) Promoter"** is a bonafide work carried out by me under the guidance of **Dr. Sivakumar Vallabhapurapu (Indian Institute of Science Education and Research Tirupati)** in partial fulfillment of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2017-18.

This report has not formed a basis for any other degree or diploma in University of Mysore or any other University.

Place: Mysore

Date:

SWATHI.K

YMB13118

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)
Mysore – 570 005
DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. Amulya R**, Reg. No: YMB14101 has carried out the project work entitled "Purification and characterization of conotoxin" at the Department of Molecular Biophysics, Indian Institute of Science, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore

Date: 15-05-2019.

15/5/2019

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

15/5/2019

Principal

Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners 1) JR Leelavathi 30/5/19

2) 30/5/19

Molecular Biophysics Unit, Indian Institute of Science

Siddhartha P. Sarma, Professor

CERTIFICATE

This is to certify that Ms. Amulya R, Integrated M.Sc student in Molecular Biology, Yuvaraja's College, University of Mysore has carried out a four month project titled "Purification and characterization of conotoxin". The work was carried out by her in this laboratory towards partial fulfilment of the MSc Degree. This work has not been carried out before.

Place: Bangalore

Date: 11/05/2019

Signature of the Guide

(Prof. Siddhartha P. Sarma)

Siddhartha P. Sarma
Professor
207, Molecular Biophysics Unit
Indian Institute of Science
Bangalore - 560 012
Tel : 22932839

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. ANAGHA MENON C. T., Reg. No: YMB14102** has carried out the Project work entitled **"Studying the transgenerational effect of antibiotics using *Drosophila melanogaster*"** at the Department of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bangalore, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore
Date: 10-05-2019

15/5/2019

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

15/5/2019

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners

1) 30/5/19

2) 30/5/19

INDIAN INSTITUTE OF SCIENCE

Molecular Reproduction, Development and Genetics

Bangalore-560 012, India

CERTIFICATE

This is to certify that the project entitled "**Studying the transgenerational effect of antibiotics using *Drosophila melanogaster***" by Ms. **Anagha Menon C. T** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation/any other part thereof has not been submitted elsewhere for any other degree.

13/05/19

Dr. Upendra Nongthomba
Associate Professor
Indian Institute of Science,
Bangalore

डॉ. उपेन्द्र नोंथोम्बा / Prof. Upendra Nongthomba, Ph.D
सह प्राध्यापक / Associate Professor
आण्विक जनन विकास एवं आनुवंशिकी
Molecular Reproduction, Development & Genetics
भारतीय विज्ञान संस्थान / Indian Institute of Science
बेंगलूर, भारत / Bangalore - 560 012, India

UNIVERSITY OF MYSORE

YUVARAJA'S COLLEGE (AUTONOMOUS)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms ARPITHA R**, Reg. No: YMB14103 has carried out the project work entitled **"CLONING OF MYOGENIC FACTOR 5(MYF5) cDNA IN MAMMALIAN EXPRESSION VECTOR"** at, in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore
Date: 02-05-19

6/5/2019

Course Coordinator

Course Coordinator
5 year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

6/5/2019

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners

1) 30/5/19

2) 30/5/19

Government of India

Dr. Mathivanan Jothi, Ph.D.
Assistant Professor, Department of Human Genetics
National Institute of Mental Health and Neurosciences (NIMHANS)
Institute of National Importance
Hosur Road, Bengaluru,
Pin: 560029, Karnataka, India

Email: mjothi@nimhans.ac.in
mathivanan.jothi@gmail.com

Phone: 00918220455752/00918026995125/5124
Web: http://mtnimhans.weebly.com/

Certificate of the External Guide

This is to certify that the dissertation entitled, "**Cloning of Myogenic factor 5 (Myf5) cDNA in mammalian expression vector**" is submitted by **Ms. Arpitha R**, Reg. No. **YMB14103** to the Department of Molecular Biology, Yuvaraja's College (Autonomous) Mysore – 560 029, Karnataka in partial fulfillment of the requirements for the Degree of M.Sc. Molecular Biology is a record of work carried by her under my supervision **(Dr. Mathivanan Jothi, Assistant Professor of Human genetics, NIMHANS)**. The contents of this dissertation, in full or in parts, have not been submitted to any other Institute or University for the award of any Degree or Diploma.

Signature of the External Guide
Dr. Mathivanan Jothi, Ph.D./डॉ. मदिवाणन् जोदि, पिएच.डी.
Assistant Professor / सहायक प्रोफेसर
Department of Human Genetics / मानव आनुवंशिकी विभाग
NIMHANS / निम्हान्स
Bengaluru / बेंगलूरु–560 029.

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Mr.DARSHAN.K**, Reg.No: YMB14104 has carried out the project work entitled "Purification and Characterization of Interaction between DprA and Topoisomerase I in *Helicobacter pylori* " at the Department of Biochemistry, Indian Institute of Science, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore

Date: 10-05-2019

15/5/2019

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

15/5/2019

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners 1)

2) 20/5/19

INDIAN INSTITUTE OF SCIENCE
DEPARTMENT OF BIOCHEMISTRY
BANGALORE - 560 012, INDIA

Desirazu N. Rao

☎ 080-2293 2538
✉ dnrao@iisc.ac.in

CERTIFICATE

This is to certify that the Major Research Project entitled "Purification and Characterization of Interaction between DprA and Topoisomerase I in *Helicobacter pylori* "submitted by Mr. DARSHAN.K in partial fulfilment for the award of M.Sc., in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by him under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Place: Bangalore

Date: 13 May 2019

D. Narasimha Rao

(Prof. D.N. Rao)
Guide

PROFESSOR
DEPARTMENT OF BIOCHEMISTRY
INDIAN INSTITUTE OF SCIENCE
BANGALORE - 560 012

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)
Mysore – 570 005
DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. Dhruthi Maudgalya**, Reg. No: YMB14105 has carried out the project work entitled "Expression,Purification and NMR Backbone Assignment of RNF38 Ring Domain "at the National Centre for Biological Sciences Bangalore (NCBS), in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore
Date : 09.06.2019

20/5/2019

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

21/5/2019

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners

1) 30/5/19

2) 30/5/19

National Centre for Biological Sciences
Tata Institute of Fundamental Research

Ranabir Das, PhD | Principal Investigator
Department of Biochemistry, Biophysics, and Bioinformatics

CERTIFICATE

This is to certify that the project entitled "Expression, Purification and NMR Backbone Assignment of RNF38 RING Domain" submitted by **Ms.Dhruthi Maudgalya** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Ranabir Das
Reader (F)
National Center for Biological Science
Tata Institute of Fundamental Research
Bengaluru 560065, India
Email: rana@ncbs.res.in
Cell Phone: 91-9740561300

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. Ishwarya Achappa K**, Reg. No: YMB14106 has carried out the project work entitled "Understanding the role of dietary interventions in modulating lifespan in *Drosophila melanogaster*" at RNA Biology Laboratory, Regional Centre for Biotechnology, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore

Date : 22.05.2019

22/5/2019.

Course Coordinator

5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore

22/5/2019

Principal

Examiners

1)

2) 30/5/19

United Nations
Educational, Scientific and
Cultural Organization

क्षेत्रीय जैव प्रौद्योगिकी केन्द्र
Regional Centre
for Biotechnology

CERTIFICATE

This is to certify that the project entitled **"Understanding the role of dietary interventions in modulating lifespan in *Drosophila melanogaster*"** submitted by Ms. **Ishwarya Achappa K** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Geetanjali Chawla

(Dr. Geetanjali Chawla)
Guide

Regional Centre for Biotechnology
NCR Biotech Science Cluster
3rd Milestone, Faridabad-Gurgaon Expressway
Faridabad 121 001, India

T +91 129 2848800
E registrar@rcb.res.in
www.rcb.res.in

An Institution of National Importance
Established by the Department of Biotechnology
Government of India
Under the auspices of UNESCO

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Mr. Jayanth S. N** Reg. No: YMB14107 has carried out the project work entitled **"Role of TAP1^{333} in susceptibility to dengue virus infection"** at the Department of Microbiology and Cell Biology, Indian Institute of Science, Bengaluru – 560012 in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore

Date: 15/05/2019

23/5/2019.

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

23/5/2019

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners

1) JR 30/5/19

2) 30/5/19

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that the Project work entitled **"Role of TAP1^{333} in susceptibility to dengue virus infection"** submitted by **Mr. JAYANTH S. N,** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) degree of University of Mysore is based on the studies carried out by him/her under my guidance and supervision. It is further certified that this dissertation/ any other part thereof has not been submitted elsewhere for any other degree.

Place: Mysore

Date: 15/05/2019

Principal Investigator

Dr. N Ravi Sundaresan
Assistant Professor
Dept. of Microbiology & Cell Biology
Indian Institute of Science
Bangalore - 560 012

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms Navyaa T N,** Reg. No: YMB14108 has carried out the Research Project work entitled **"Standardization of expression, purification and crystallization conditions of hBRD2 BD1"** at the Department of Biophysics,National Institute of Mental Health and Neurosciences (NIMHANS), in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore

Date: 02.05.2019

4/5/2019

Course Coordinator

Course Co-ordinator
5-year integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

4/5/2019

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners

1) 30/5/19

2) 30/5/19

National Institute of Mental Health and Neurosciences (NIMHANS)

Institute of National Importance

BANGALORE-560029

BONAFIDE CERTIFICATE

This is certifying that **Ms Navyaa T N**, 5th year student of 5-year Integrated MSc., in Molecular Biology, Yuvaraja's college, Mysore, University of Mysore, has completed her MSc., (Integrated) dissertation project, 2019 under my guidance. For her project work, she has worked on **"STANDARDIZATION OF EXPRESSION, PURIFICATION AND CRYSTALLIZATION SCREENING OF hBRD2 BD1".**

B. Padmanabhan

Dr. B. Padmanabhan

Professor and Head

Department of Biophysics

National Institute of Mental Health and Neurosciences

Bangalore- 560029

Dr. B. Padmanabhan, Ph.D
Professor & Head
Department of Biophysics
National Institute of Mental Health
and Neuro Sciences (NIMHANS)
Bangalore - 560 029, INDIA

Date: 03/05/19

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)
Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Navyashree N.**, Reg. No: **YMB14109** has carried out the project work entitled **"Cloning and purification of peptide binding domain of Sis1 of human malaria parasite."** at the CSIR-Central Drug Research Institute (CSIR-CDRI), Lucknow, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2019.

Place: Mysore.

Date: 15May2019.

Dated: 22/5/2019

CourseCoordinator
Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

20/5/2019

Principal
Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiner 1) JR Leelavathi 20/5/19

2) 20/5/19

सी.एस.आई.आर.-केन्द्रीय औषधि अनुसंधान संस्थान, लखनऊ
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
सेक्टर 10, जानकीपुरम विस्तार, सीतापुर रोड, लखनऊ - 226 031 (भारत)
CSIR - Central Drug Research Institute
(Council of Scientific & Industrial Research)
Sector 10, Janakipuram Extension, Sitapur Road, Lucknow - 226 031 (India)

CERTIFICATE

This is to certify that Navyashree N. has worked on project titled 'Cloning and purification of peptide binding domain of Sis1 of human malaria parasite' during her summer training in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2019.

Dr. Niti Kumar

Scientist, CSIR-CDRI

niti.kumar@cdri.res.in,

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **PAVANI.G** Reg.No.: YMB14110 has carried out the project work entitled "**Isolation and purification of antibacterial secondary metabolites from White muscardine(*Beauveria bassisana*) infecting mulberry silkworm(*Bombyx mori L)***" at the Department of Molecular Biology in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore

Date: 20/5/2019

20/5/2019.

Course Coordinator

5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

20/5/2019

Principal

Examiners

1) J.R. 31/5/19

2) 31/5/19

Central Sericulture Research and Training Institute, Central silk Board, Ministry of textiles, Govt. of India.

DR. MADHUSUDHAN. K. N.

Scientist-C,

Silkworm Molecular Biology Laboratory.

CERTIFICATE

This is to certify that the Project work entitled **"Isolation and purification of antibacterial secondary metabolites from White muscardine(*Beauveria bassisana*) infecting mulberry silkworm(*Bombyx mori L)*"** was carried out by **Ms. PAVANI.G,** Student of Integrated Master of Science in Molecular Biology, Yuvaraja's college. Mysore under my guidance and supervision at Central Sericulture Research and Training Institute, Mysore. This work was carried out by her in partial fulfillment of the requirements for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Date: 20-05-2019

Place: Mysore

(DR. MADHUSUDHAN.K.N.)

केन्द्रीय रेशम अनुसंधान एवं प्रशिक्षण संस्थान,
Central Sericultural Research and Training Institute
Hosur Road, Srirampura
Bangalore 560068

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. PRIYANKA IYENGAR K,** Reg. No: YMB14111 has carried out the Project work entitled **"Molecular genetic analysis of Bivoltine and Multivoltine silkworms using microsatellites"** at the Molecular Biology Laboratory-II, CSRTI, Mysore, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore

Date: 20/5/2019

20/5/2019.

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

20/5/2019

Principal

Examiners

1) JR Leena 31/5/19

2) 31/5/19

DR. KUSUMA L
Scientist-B
Molecular Biology Laboratory-II
Central Sericulture Research and Training Institute,
Central silk Board, Ministry of textiles, Govt. of India.

kusuma.lingaiah@gmail.com
Ph. No.:9480364262

CERTIFICATE

This is to certify that the project work entitled **"Molecular genetic analysis of Bivoltine and Multivoltine silkworms using microsatellites"** was carried out by **Ms. Priyanka Iyengar K,** Student of Master of Science in Molecular Biology, Yuvaraja's Science College, Mysore under my guidance and supervision at Central Sericulture Research and Training Institute, Mysuru. This work was carried out by her in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Date: 20·5·2019
Place: Mysore

(DR. KUSUMA L)

वैज्ञानिक -बी / Scientist-B
आण्विक जीव विज्ञान प्रयोगशाला
Molecular Biology Laboratory-II
केंद्रीय रेशम उत्पादन अनुसंधान एवं प्रशिक्षण संस्थान,
Central Sericultural Research and Training Institute
मानंदवाडी रोड, श्रीरामपुरा, Manandavadi Road, Srirampura
मैसूरु - Mysuru 570008

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)
Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Mr. SANDEEP B.,** Reg. No: YMB14112 has carried out the project work entitled **"Expression of 90kDa protein in different silkworm *Bombyx mori L.* races after inoculation with different pathogens"** at the Department of Molecular Biology in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore

Date: 22-5-2019

Course Coordinator

Course Coordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners 1) 31/5/19

2) 31/5/19

केंद्रीय रेशम उत्पादन अनुसंधान एवं प्रशिक्षण संस्थान
Central Sericultural Research and Training Institute

केंद्रीय रेशम बोर्ड/Central Silk Board
भारत सरकार/Govt. of India

श्रीरामपुरा, मानंदवाडी रोड,
Sriarampura, Manandavadi Road,
मैसूर/MYSORE - 570 008.

CERTIFICATE

This is to certify that the Minor Research Project entitled **"Expression of 90kDa protein in different silkworm *Bombyx mori L.* races after inoculation with different pathogens"** submitted by Mr.Sandeep B. in partial fulfillment for the award of M.Sc in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by me under the guidance of Dr. Mallikarjuna G., Scientist-B, Department of Silkworm Pathology, Central Sericultural Research & Training Institute (CSR&TI), Mysore . It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Place: Mysore
Date: 13.5.2019

13/5/19
(Dr.Mallikarjuna G.)
Scientist-B
Principle Investigator
Silkworm Pathology
Central Sericultural Research and
Training Institute, MYSORE - 570 008

सभी पत्राचार निदेशक के नाम से भेजें /All Correspondence should be addressed to the Director
दूरभाष/Telephone : 0821-2362406, 2362440, 2362757 (निदेशक /Director)
फैक्स/Fax : 091-0821-2362845 ; तार/Grams : सिल्कबोर्ड/SILKBOARD
वेबसाइट/Website : csrtimys.res.in

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. Sanjana S. Jeevangoudar** Reg. No: YMB14113 has carried out the project work entitled **"Association of Fcγ Receptor (FcγRIIa) Polymorphism with Susceptibility to Dengue Virus Infection"** at the Department of Microbiology and Cell Biology, Indian Institute of Science, Bengaluru – 560012 in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore

Date: 15/05/19

23/5/2019

Course Coordinator

Course Co-ordinator
5 year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

23/5/2019

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners

1) 31/5/19

2) 31/5/19

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that the Project work entitled **"Association of Fcγ Receptor (FcγRIIa) Polymorphism with Susceptibility to Dengue Virus Infection"** submitted by **Ms. SANJANA S. JEEVANGOUDAR,** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) degree of University of Mysore is based on the studies carried out by him/her under my guidance and supervision. It is further certified that this dissertation/ any other part thereof has not been submitted elsewhere for any other degree.

Place: Mysore

Date: 15/05/19

Principal Investigator

Dr. N Ravi Sundaresan
Assistant Professor
Dept. of Microbiology & Cell Biology
Indian Institute of Science
Bangalore - 560 012

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)
Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Mr. Sathvik B S**, Reg. No: YMB14114 has carried out the project work entitled "Dissecting the expression profile of epigenetic markers and epithelial to mesenchymal transition proteins in p53 null and mutant colorectal cancer cell lines from RNA sequencing data" at the Institute of Bioinformatics and Applied Biotechnology, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore
Date : 21-5-2019

21/5/2019
Course Coordinator
Course Co-ordinator
Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

21/5/2019
Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners

1) 31/5/19

2) 31/5/19

IBAB
Institute of Bioinformatics and
Applied Biotechnology

CERTIFICATE

This is to certify that the project entitled "Dissecting the expression profile of epigenetic markers and epithelial to mesenchymal transition proteins in p53 null and mutant colorectal cancer cell lines from RNA sequencing data" submitted by **Mr Sathvik B. S.** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by him under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Place: Bengaluru
Date: 14/05/2019

(Dr.Vijayalakshmi Mahadevan)
Signature of the Guide

Bio-Tech Park, Electronic City Phase I, Bangalore - 560 100. Tel : 080 2852 8900/ 2852 8901/ 2852 8902 Fax : 080 2852 8904 Website : www.ibab.ac.in

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)
Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. Sharada B.V.**, Reg. No: YMB14115 has carried out the project work entitled "Evaluation of Genetic Relationship among the Selected Mulberry Germplasm using Simple Sequence Repeat Markers" at the Molecular Biology Laboratory -1, Central Sericulture Research & Training Institute Mysore, in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018 - 2019

Place: Mysuru
Date : 15-5-2019.

15/5/2019

Course Coordinator
Course Co-ordinator
Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners

1) 21/5/19

2) 31/5/19

केंद्रीय रेशम उत्पादन अनुसंधान एवं प्रशिक्षण संस्थान
Central Sericultural Research and Training Institute

केंद्रीय रेशम बोर्ड/Central Silk Board
भारत सरकार/Govt. of India

श्रीरामपुरा, मानंदवाडी रोड,
Srirampura, Manandavadi Road,
मैसूरु/MYSORE - 570 008

CERTIFICATE

This is to certify that the project entitled **"Evaluation of Genetic Relationship among the Selected Mulberry Germplasm using Simple Sequence Repeat Markers"** submitted by Ms. **Sharada B.V.,** in partial fulfilment for the award of MSc in Molecular Biology (Integrated) degree of University of Mysore is based on the studies carried out by her during the period from January 2019 to April 2019 under my guidance and supervision. It is further certified that this dissertation / any other part of thesis has not been submitted elsewhere for any other degree. The results of this research work are not to be published by the candidate or anyone else without the specific return permission of the undersigned.

Date:- 14/05/2019

B.N.G

(Dr. Gnanesh B.N.)
Dr. Gnanesh B.N.
Ramanujan Fellow / Scientist-
Molecular Biology Laboratory-I
Central Sericultural Research and Training Institute
Manandavadi Road, Srirampura
Mysuru -570008

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. Srividhya S** Reg. No: YMB14116 has carried out the project work entitled "**Study of thermal tolerance in tardigrades (water bear)**" at the Department of Biochemistry, Indian Institute of Science, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-19.

Place: Mysore

Date : 16-5-2019

16/5/2019

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

16/5/2019

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiners

1) 21/5/19

2) 21/5/19

INDIAN INSTITUTE OF SCIENCE
Department of Biochemistry
Bengaluru- 560 012, India

Dr. Sandeep M. Eswarappa, MBBS, PhD.
Assistant Professor
Tel. :91-80-22932881
Fax :91-8023600814
E-mail: sandeep@iisc.ac.in

CERTIFICATE

This is to certify that the project entitled **"Study of thermal tolerance in tardigrades (Water bears)"** submitted by **Ms. Srividhya S** in partial fulfillment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation has not been submitted elsewhere for any other degree.

Signature of the Guide

Place: Bangalore

Date: 15 May 2019

Dr. Sandeep M. Eswarappa
Assistant Professor
Department of Biochemistry
Indian Institute of Science, Bangalore-12

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

CERTIFICATE

This is to certify that **Ms SUFIA SIDDIQUE**, Reg. No: YMB14117 has carried out the Project work entitled **"Proteomic Analysis of different Silkworm *Bombyx mori* L Bivoltine Breeds"** at the Silkworm Pathology Division, CSRTI, Mysore, in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2018-2019.

Place: Mysore

Date: 22-5-2019

22/5/2019

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Principal

Examiners

1) 31/5/19

2) 31/5/19

केंद्रीय रेशम उत्पादन अनुसंधान एवं प्रशिक्षण संस्थान
Central Sericultural Research and Training Institute

केंद्रीय रेशम बोर्ड/Central Silk Board
भारत सरकार/Govt. of India

श्रीरामपुरा, मानंदवाडी रोड,
Srirampura, Manandavadi Road,
मैसूर/MYSORE - 570 008.

CERTIFICATE

This is to certify that the Project work entitled **"Proteomic Analysis of different Silkworm *Bombyx mori* L Bivoltine Breeds"** submitted by **Ms SUFIA SIDDIQUE,** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) degree of University of Mysore is based on the studies carried out by him/her under my guidance and supervision. It is further certified that this dissertation/ any other part thereof has not been submitted elsewhere for any other degree.

Place: Mysore
Date: 22.05.2019

22/5/19
Dr. Mallikarjuna G
Scientist- B
Silkworm pathology Laboratory
CSRTI- Mysuru.
(Principal Investigator)

Silkworm Pathology
Central Sericultural Research and
Training Institute MYSORE - 570 00

सभी पत्राचार निदेशक के नाम से भेजें /All Correspondence should be addressed to the Director
दूरभाष/Telephone : 0821-2362406, 2362440, 2362757 (निदेशक /Director)
फैक्स/Fax : 091-0821-2362845 ; तार/Grams : सिल्कबोर्ड/SILKBOARD
वेबसाइट/Website : csrtimys.res.in

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)
Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Varsha V.**, Reg. No: **YMB14118** has carried out the project work entitled **"New methodology for selection of RNA methyltransferases in a cell-free environment"** at the Okinawa Institute of Science and Technology Graduate University Okinawa, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2019.

Place: Mysore

Date: 21-5-2019

21/5/2019

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

21/5/2019

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
Mysore-570 005

Examiner

1) 31/5/19

2) 31/5/19

OIST OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY GRADUATE UNIVERSITY

CERTIFICATE

This is to certify that the project entitled **"New methodology for selection of RNA methyltransferases in a cell-free environment"** submitted by Ms. VARSHA V. in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore in the period from January to May 2019 (4 months) is based on the studies carried out by her under my guidance and supervision at Okinawa Institute of Science and Technology Graduate University, Okinawa. It is further certified that this dissertation/ any other part thereof has not been submitted elsewhere for any other degree.

Place: Okinawa, Japan
Date : 17/5/19

Paola Laurino

(Prof. Paola Laurino)

〒904-0495 沖縄県国頭郡恩納村字谷茶1919番地1
学校法人 沖縄科学技術大学院大学学園
理事長 ピーター・グルース

UNIVERSITY OF MYSORE

YUVARAJA'S COLLEGE (AUTONOMOUS)

MYSURU 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that Ms. **AISHWARYA J D**, Reg. No: **YMB17102** has carried out the project work entitled "**Analysis of pseudogenes in *Mycobacterium leprae* Strains**" at Department of Computational Biology, Institute of Bioinformatics and Applied Biotechnology, in partial fulfilment for the award of M.Sc. in Molecular Biology (5 years Integrated) of University of Mysore during the academic year 2021 – 22.

Place: Mysuru

Date: 13/9/2022

13/9/2022

Course Coordinator

Course Coordinator
Department of Molecular Biology
Yuvaraja's College
University of Mysore
Mysore-570 005

Principal

ಪ್ರಾಂಶುಪಾಲರು
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

Examiners

24/09/2022.

24/09/2022

IBAB
Institute of Bioinformatics and Applied Biotechnology

CERTIFICATE

This is to certify that the project entitled "**Analysis of pseudogenes in *Mycobacterium leprae* Strains**" submitted by Ms. **AISHWARYA J D** in partial fulfilment for the award of M.Sc. in Molecular Biology (5 years Integrated) of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Place: Bengaluru
Date: 27th aug, 2022

Shegde
(Dr Shubhada Hegde)
Guide / Supervisor

INSTITUTE OF BIOINFORMATICS AND APPLIED BIOTECHNOLOGY • BANGALORE

September 2022

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

CERTIFICATE

This is to certify that **Ms. AISHWARYA K**, Reg. No: YMB17103 has carried out the Project work entitled **"Application of MD simulation to understand biomolecular properties"** at the Department of Biological sciences, BITS, Pilani in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Five Year Integrated) of University of Mysore during the academic year 2021-22.

Place: Mysore
Date:22.09.2022

Course Coordinator

Coordinator
Department of Molecular Biology
Yuvaraja's College
University of Mysore
Mysore-570 005

Principal
24/9/22

Principal
Yuvaraja's College (Autonomous)
University of Mysore
MYSORE-570 005

Examiners

24/09/2022

24/9/2022

Birla Institute of Technology & Science, Pilani
Hyderabad Campus

CERTIFICATE

This is to certify that the Project entitled **"Application of MD simulation to understand biomolecular properties"** submitted by **MS AISHWARYA K** in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Five Year Integrated) of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Debashree Bandyopadhyay

Debashree Bandyopadhyay, PhD
Associate Professor, Department of Biological Sciences,
BITS PILANI, Hyderbad Campus, Hyderabad, Telengana, 50078

Department of Biological Sciences
BITS-Pilani, Hyderabad Campus,
Jawahar Nagar, Shameerpet Mandal,
Medchal-Malkajgiri District-500 078.
T.S., India.

Project Guide

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)
Mysore – 570 005
DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Mr. Amarthya Siddhartha**, Reg. No: YMB1104 has carried out the project work "**Investigating the functional complementation of Uip4, an NE/ER protein of *Saccharomyces cerevisiae* by mammalian TorsinA**" at the Department of Biochemistry, School of Life Sciences, University of Hyderabad, in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2021-22.

Place: Mysore
Date: 18.08.2022

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

Principal
ಪ್ರಾಂಶುಪಾಲರು
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

Examiners

1.

2.

UNIVERSITY OF HYDERABAD
School of Life Sciences
Prof. C.R. Rao Road, South Campus
Gachibowli, Hyderabad – 500 046

CERTIFICATE

This is to certify that the project entitled "**Investigating the functional complementation of Uip4, an NE/ER protein of *Saccharomyces cerevisiae*, by mammalian TorsinA**" submitted by **Mr. Amarthya Siddhartha** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by him under my guidance and supervision. It is further certified that this dissertation or any other part thereof has not been submitted elsewhere for any other degree.

Signature of Project Guide

Prof. Krishnaveni Mishra
Department of Biochemistry
School of Life Sciences
University of Hyderabad
Hyderabad-500046

UNIVERSITY OF MYSORE
YUVARAJA'S COLLEGE
(Constituent Autonomous College with Potential for Excellence)
Accredited 'A' grade with CGPA 3.34 by NAAC
JLB Road, Mysuru - 570 005

CERTIFICATE

This is to certify that Ms. Apoorva K N Reg. No: YMB17105 has carried out the project work entitled **"Studies on pneumonic lung lesions with special emphasis on PCR detection of Ovine Pulmonary Adenocarcinoma Virus (OPAV) in Sheep and Goats"** at the ICAR-NIVEDI, Bangalore, in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2021-2022.

Place: Mysuru
Date: 24-08-2022

13/9/2022

Course Coordinator

Course Coordinator
Department of Molecular Biology
Yuvaraja's College
University of Mysore
Mysore-570 005

22/9/22

Principal
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

24/09/2022

24/09/2022

ಭಾ.ಕೃ.ಸಂ.ಪ. – ರಾಷ್ಟ್ರೀಯ ಪಶುರೋಗ ಸೋಂಕುಶಾಸ್ತ್ರ ಮತ್ತು ಮಾಹಿತಿ ವಿಜ್ಞಾನ ಸಂಸ್ಥೆ
भाकृअनुप–राष्ट्रीय पशुरोग जानपदिक एवं सूचना विज्ञान संस्थान
ICAR-National Institute of Veterinary Epidemiology and Disease Informatics
ರಾಮಗೊಂಡನಹಳ್ಳಿ, ಯಲಹಂಕ, ಬೆಂಗಳೂರು–೫೬೦೦೬೪, ಭಾರತ
रामगोंडनहल्लि, येलहंका, बेंगलूरु–५६० ०६४. भारत
Ramagondanahalli, Post Box No: 6450, Yelahanka, Bengaluru-560064, INDIA
रा प जा सू वि सं
N I V E D I

CERTIFICATE

This is to certify that **Ms. APOORVA. K. N. (YMB17105)**, student of **Integrated MSc in Molecular biology,** Yuvaraja's college Mysuru had successfully completed her dissertation work titled **"Studies on pneumonic lung lesions with special emphasis on PCR detection of ovine pulmonary adenocarcinoma virus (OPAV) in sheep and goats"** from 28th April, 2022 to 22nd August, 2022 at ICAR- National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI), Bengaluru under my guidance in partial fulfilment of the requirements for the degree of Integrated Master of Science in Molecular Biology.

This institute wishes the candidate success in her future endeavours.

22/08/22

Dr. Shivasharanappa N
Senior scientist (Veterinary Pathology)
ICAR-NIVEDI

Dr. Shivasharanappa N
MVSc, PhD, Fulbright PostDoc (USA)
Senior Scientist (Veterinary Pathology)
ICAR-NIVEDI, Yelahanka
Bengaluru - 560064

UNIVERSITY OF MYSORE
Yuvaraja's College (Autonomous)
Mysore -570005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. ASHA RAJ**, Reg. No. **YMB17106** has carried out the project work entitled **'EVALUATING PAIN SENSATION PATTERNS IN *Syngap1*$^{+/-}$ MICE MODEL OF AUTISM SPECTRUM DISORDER (ASD)'** at the Department of Neuroscience Unit, JNCASR in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2021-22.

Place: Mysore

Date:

22/9/2022

Course Coordinator

Course Coordinator
Department of Molecular Biology
Yuvaraja's College
University of Mysore
Mysore-570 005

23/9/22

Principal

Principal
Yuvaraja's College (Autonomous)
University of Mysore
MYSORE-570 005

Examiners

24/9/2022

24/09/2022

JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH
Jakkur, Bangalore – 560064 Karnataka. India

Dr. James Chelliah,
Associate Professor,
JNCASR, Bangalore.
clement@jncasr.ac.in
+91-80-2208 2613

CERTIFICATE

This is to certify that the project entitled **'EVALUATING PAIN SENSATION PATTERNS IN *Syngap1*$^{+/-}$ MICE MODEL OF AUTISM SPECTRUM DISORDER (ASD)'** submitted by **Ms. ASHA RAJ,** in partial fulfilment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of University of Mysore is based on the studies carried out by her under the guidance and supervision of **Dr. James Premdoss Clement Chellaiah**, Associate Professor, Neuroscience Unit, JNCASR. Further, this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

6/9/22

Place: Mysore
Date: 06/09/2022

(Dr James Premdoss Clement Chellaiah)
Project Guide.
Dr. James P Clement
Associate Professor
Neuroscience Unit
Jawaharlal Nehru Centre for Advanced
Scientific Research, Jakkur
Bengaluru - 560 064, Karnataka, India

UNIVERSITY OF MYSORE
Yuvaraja's College (Autonomous)
Mysore -570005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. DEEKSHA P HEBBAR**, Reg. No. **YMB17107** has carried out the project work entitled **"Understanding the role of autophagy in presynaptic compartments of neurons"** at the Department Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2021-22.

Place: Mysore

Date: 21/09/2022

Course Coordinator

Course Co-ordinator
5-year integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

Principal
ಪ್ರಾಂಶುಪಾಲರು
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

Examiners

Jawaharlal Nehru Center for Advanced Scientific Research

Jakkur Campus, Jakkur Post
Bengaluru 560 064, INDIA
Email: ravim@jncasr.ac.in

Office Tel: +91 (80) 2208 2924
Office Fax: +91 (80) 22082766
+91 (80) 2208 2767

19th September 2022

CERTIFICATE

This is to certify that the project entitled "Understanding the role of autophagy in presynaptic compartments of neurons" submitted by **Ms. DEEKSHA P HEBBAR,** in partial fulfilment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of University of Mysore is based on the studies carried out by her under the guidance and supervision of Dr. Ravi Manjithaya, Autophagy, Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore-560064.

Project Guide
Dr. Ravi Manjithaya
Associate Professor
Molecular Biology
and Genetics Unit
JNCASR.

Molecular Biology & Genetics Unit
Jawaharlal Nehru Centre for
Advanced Scientific Research
Jakkur P.O., Bangalore-560 064

UNIVERSITY OF MYSORE
Yuvaraja's College (Autonomous)
Mysuru- 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that Ms **Ganavi B**, Reg. No: **YMB17108** has carried out the project work entitled **"Cloning and Purification of ECT2 mutant to understand the molecular basis of its interaction with CYK4 protein"** at Centre for Chemical Biology and Therapeutics (CCBT), Institite for Stem Cell Science and Regenerative Medicine (inStem), Bangalore from April 2022 to September 2022 in partial fulfillment of the requirement for the award of M.Sc. in Molecular Biology (Five Year Integrated) of the University of Mysore during the academic year 2021-22.

Place: Mysore

Date: 21/9/2022

22/9/2022

Course Coordinator

Course Coordinator
Molecular Biology
Yuvaraja's College
University of Mysore
Mysore-570 005

ಪ್ರಾಂಶುಪಾಲರು/Principal
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

24/09/2022

Examiners

24/9/2022

स्टेम कोशिका विज्ञान और पुनर्योजी औषधि संस्थान
जैव प्रौद्योगिकी विभाग, भारत सरकार का एक स्वायत्त संस्थान
Institute for Stem Cell Science and Regenerative Medicine
Autonomous Institute of the Department of Biotechnology, Government of India.

inStem

CERTIFICATE

This is to certify that **Ms Ganavi B**, Reg. No: **YMB17108** has carried out the project work entitled "**Cloning and Purification of ECT2 mutant to understand the molecular basis of its interaction with CYK4 protein**" at The Centre for Chemical Biology and Therapeutics (CCBT), Institute for Stem Cell Science and Regenerative Medicine (inStem), Bangalore in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Five Year Integrated) of the University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Dr. Neelagandan Kamaraj
Guide
Team Lead, CCBT,
inStem, NCBS, Bangalore

Date: 16.09.2022

Place: Bangalore

UNIVERSITY OF MYSORE
Yuvaraja's College (Autonomous)
Mysore -570005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. INCHARA R**, Reg. No. **YMB17109** has carried out the project work entitled **'Understanding autophagy flux using autophagy mutants in *Saccharomyces cerevisiae*'** at the Department of Molecular Biology and Genetics, Jawaharlal Nehru Centre for Advanced Scientific Research, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2021-22.

Place: Mysore
Date: 13/9/2022

13/9/2022

Course Coordinator

Course Coordinator
Department of Molecular Biology
Yuvaraja's College
University of Mysore
Mysore-570 005

22/9/22

Principal
ಪ್ರಾಂಶುಪಾಲರು
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

Examiners

24/09/2022

24/9/2022

Jawaharlal Nehru Center for Advanced Scientific Research
(Autonomous Body under the Department of Science & Technology, Government of India)
Jakkur Campus, Jakkur Post
Bengaluru 560 064, INDIA
Email: ravinn@jncasr.ac.in
Office Tel: +91 (80) 2208 2924
Office Fax: +91 (80) 2208 2766
+91 (80) 2208 2767

CERTIFICATE

This is to certify that the project entitled '**Understanding autophagy flux using autophagy mutants in *Saccharomyces cerevisiae***' submitted by **Ms. INCHARA R,** in partial fulfilment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Place: Bangalore
Date: 06/09/2022

(Dr. Ravi Manjithaya)
Project Guide

Molecular Biology & Genetics Unit
Jawaharlal Nehru Centre for
Advanced Scientific Research
Jakkur P.O., Bangalore-560 064

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)
Mysore – 570 005
DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. Kavyashree N**, Reg. No: YMB17110 has carried out the project work entitled **"Understanding the effect of *Atg1* over-expression in *Drosophila* model of Huntington's Disease"** at the **Department of Neuroscience, Jawaharlal Nehru Centre for Advanced Scientific Research**, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2021-2022

Place: Mysore
Date: 13/9/2022

13/9/2022
Course Coordinator

22/9/22
Principal
ಪ್ರಾಂಶುಪಾಲರು
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

Course Coordinator
Department of Molecular Biology
Yuvaraja's College
University of Mysore
Mysuru-570 005

Examiners

24/09/2022

24/9/2022

Chronobiology & Behavioural Neurogenetics Laboratory,
Neuroscience Unit
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)
PB #6436, Jakkur Post, Bengaluru - 560 064, INDIA

CERTIFICATE

This is to certify that the project entitled "**Understanding the effect of *Atg1* over-expression in *Drosophila* model of Huntington's Disease**" submitted by Ms. **Kavyashree N** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Sheeba.V

(Dr. Sheeba Vasu)
Guide

Neuro Science Unit
Jawaharlal Nehru Centre for
Advanced Scientific Research
Jakkur P.O., Bangalore-560 064

E-mail: sheeba@jncasr.ac.in; ph - 22082987(off) 22082580 (lab)

UNIVERSITY OF MYSORE
Yuvaraja's College
(Autonomous)
Mysore -570005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Miss Mahima kumar M S** Reg. No. **YMB17111** has carried out the project work entitled **'Investigation of novel peptide for Levodopa induced dyskinesia: Using cAMP specific PDE10A as the therapeutic target by immunoinformatics approach'** at the Department of of Biotechnology and Bioinformatics, JSS Academy of Higher Education & Research, in partial fulfillement of the requirement for the award of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2021-22

Place: Mysore

Date:

13/9/2022

Course Coordinator

Coordinator
Department of Molecular Biology
Yuvaraja's College
University of Mysore
Mysore-570 005

23/9/22

Principal

ಪ್ರಾಂಶುಪಾಲರು
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

Examiners

26/9/2022

26/9/2022

JSS ACADEMY OF HIGHER EDUCATION & RESEARCH
(DEEMED TO BE UNIVERSITY) MYSURU

DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS
JSS Academy of Higher Education & Research
(Deemed to be University)
Accredited "A+" Grade by NAAC

BONIFIDE CERTIFICATE

This is to certify that the project entitled "**Investigation of novel peptide for Levodopa induced dyskinesia: Using cAMP specific PDE10A as the therapeutic target by immunoinformatics approch**" submitted by Mahima Kumar M S in partial fulfillment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part there of has not been submitted elsewhere for any other degree.

(Signature of the external guide)

DR.CHANDAN.S M.Sc.,M.Phil.,Ph.D.,
Assistant Professor
Department of Biotechnology & Bioinformatics
Faculty of Life Sciences
JSS Academy of Higher Education & Research
Sri Shivarahaeeshwara Nagar, Mysuru-570 015

Date:

UNIVERSITY OF MYSORE
Yuvaraja's College (Autonomous)
Mysore -570005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Prajwal S.**, Reg. No. **YMB17112** has carried out the project work entitled **'Analysis of mitochondrial morphology upon *Listeria monocytogenes* infection'** at the Jawaharlal Nehru Centre for Advance Scientific Research in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2021-22.

Place: Mysore
Date:

23/9/2022

Course Coordinator

23/9/22

Principal
ಪ್ರಾಂಶುಪಾಲರು
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯ
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

Examiners

26/9/2022

29/9/2022

Jawaharlal Nehru Center for Advanced Scientific Research
(Autonomous Body under the Department of Science & Technology, Government of India)
Jakkur Campus, Jakkur Post
Bengaluru 560 064, INDIA
Email: ravim@jncasr.ac.in
Office Tel: +91 (80) 2208 2924
Office Fax: +91 (80) 2208 2766
+91 (80) 2208 2767

22th September, 2022

To,
The Course Coordinator,
Department of Molecular Biology,
Yuvaraja's College,
Mysore.

This is to certify that the project entitled **'Analysis of Mitochondrial morphology upon *Listeria monocytogenes* infection'** submitted by **Prajwal S.,** in partial fulfillment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of University of Mysore is based on the studies carried out by him under the guidance and supervision of **Dr. Ravi Manjithaya**. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Best regards,

Molecular Biology & Genetics Unit
Jawaharlal Nehru Centre for
Advanced Scientific Research
Jakkur P.O., Bangalore-560 064

Ravi Manjithaya
Associate Professor,
Molecular Biology and Genetics Unit,
Associate Faculty, Neuroscience Unit.

UNIVERSITY OF MYSORE
YUVARAJA'S COLLEGE
(Constituent Autonomous College with Potential for Excellence)
Accredited 'A' grade with CGPA 3.34 by NAAC
JLB Road, Mysuru - 570 005

CERTIFICATE

YMB17113

This is to certify that **Ms. PREETHI B.R**, Department of Molecular Biology has fulfilled the dissertation program, and has submitted the project report entitled **"DETERMINING THE INSECTICIDAL PROPERTIES OF BIOPESTICIDE ON STORED PRODUCT PEST AND ITS EFFECTS ON GRAINS"** to the Department of Molecular Biology in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2021-2022.

Place: Mysore
Date: 07/09/2022

22/9/2022

Course Coordinator
Department of Molecular Biology
Yuvaraja's College
University of Mysore
Mysore-570 005

Course Coordinator

Principal
ಪ್ರಾಂಶುಪಾಲರು
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

26/9/2022

26/9/2022

cftri
Giving Food a Future

CERTIFICATE

This is to certify that the project entitled **"DETERMINING THE INSECTICIDAL PROPERTIES OF BIOPESTICIDE ON STORED PRODUCT PEST AND ITS EFFECTS ON GRAINS"** submitted by **Ms. PREETHI B.R** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this project work / any other part thereof has not been submitted elsewhere for any other degree.

(Dr. Manjunatha Prabhu B.H.)

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore -570005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. PRERANA S. BHAT**, Reg. No. **YMB17114** has carried out the project work entitled **"Characterization of Sleep in diverged Chronotype Population of *Drosophila melanogaster*"** under the guidance of Prof. Sheeba Vasu, Chronobiology and Behavioural Neurogenetics Laboratory, Neuroscience Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2021-22.

Place: Mysore

Date: 13-9-2022

Devaki M-S

Course Coordinator

Course Co-ordinator
5-year integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

Principal 22/9/22

ಪ್ರಾಂಶುಪಾಲರು
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

Examiners

Devaki M-S 20/9/2022

26/9/2022

Chronobiology and Behavioural Neurogenetics Laboratory,
Jawaharlal Nehru Centre for Advanced Scientific Research
PB #6436, Jakkur Post, Bengaluru - 560 064, INDIA

CERTIFICATE

This is to certify that the project entitled **"Characterization of Sleep in diverged Chronotype Population of *Drosophila melanogaster*"** submitted by **Ms. PRERANA S. BHAT,** in partial fulfilment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of University of Mysore is a record of a bonafide dissertation based on the original investigation and a part of an ongoing research project carried out from April to August.2022 under the guidance and supervision of Prof. Sheeba Vasu, Chronobiology and Behavioural Neurogenetics Laboratory, Neuroscience Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore. 560064.

(Prof. Sheeba Vasu)
Guide

Neuro Science Unit
Jawaharlal Nehru Centre for Advanced Scientific Research
Jakkur P.O., Bangalore-560 064

E-mail: sheeba@jncasr.ac.in; ph 22082987(off) 22082580 (lab)

UNIVERSITYOF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms. Shashank M.S.**, Reg. No: YMB17115 has carried out the project work entitled "**Designing and cloning of Vectors to study the mechanism of action of lncRNA TUG1** "at CSIR – Centre for Cellular and Molecular Biology in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2022.

Place: Mysore

Date: 30 – 08 – 2022

22/9/2022

Course Coordinator

22/9/22

Principal

Examiners

26/9/2022

26/9/2022

तिसीएमबी
:CMB

सीएसआईआर-कोशिकीय एवं आणविक जीवविज्ञान केन्द्र
CSIR-CENTRE FOR CELLULAR AND MOLECULAR BIOLOGY
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
(Council of Scientific & Industrial Research)
(विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार / Ministry of Science & Technology, Govt. of India)
उप्पल रोड, हब्सीगुड़ा, हैदराबाद - 500 007, तेलंगाना, भारत
Uppal Road, Habsiguda, Hyderabad - 500 007, Telangana, India

CERTIFICATE

This is to certify that the project entitled "Designing and cloning of Vectors to study the mechanism of action of lncRNA TUG1" submitted by Mr. **Shashank M.S.** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

(**Dr. Regalla Kumaraswamy**)
Guide

फैक्स Fax
अंतर्राष्ट्रीय भारत International India
+91-40-27160591, 27160311
040-27160591, 27160311
+91-40-27160591, 27160311
040-27160591, 27160311
दूरभाष Telephone
+91-40-27160222-41
वेब साइट Website
http://www.ccmb.res.in

UNIVERSITY OF MYSORE

YUVARAJA'S COLLEGE (Autonomous)

(Constituent Autonomous College with Potential for Excellence)

Accredited 'A' grade with CGPA 3.34 by NAAC

JLB Road, Mysuru - 570 005

CERTIFICATE

This is to certify that **Ms. SHEETHAL U M**, Reg. No: YMB17116 has carried out the Project work entitled **"Computational analysis to predict epitope candidates of S and N proteins against Bovine Coronavirus (BCoV) & Design a multimeric-peptide-based vaccine for bovine: An Intergraded Approach of Reverse Vaccinology and Immunoinformatics methodology"** at the Spatial Epidemiology Lab, ICAR-National Institute of Veterinary Epidemiology Disease Informatics in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (5 years Integrated) of University of Mysore during the academic year 2021-2022.

Place: Mysore

Date: 24-08-2022

26/9/2022

Course Coordinator

Course Coordinator
Department of M.Sc. Molecular Biology
Yuvaraja's College
University of Mysore
Mysore-570 005

22/9/22

Principal

Examiners

26/9/2022

ಭಾ.ಕೃ.ಸಂ.ಪ – ರಾಷ್ಟ್ರೀಯ ಪಶುರೋಗ ಸೋಂಕುಶಾಸ್ತ್ರ ಮತ್ತು ಮಾಹಿತಿ ವಿಜ್ಞಾನ ಸಂಸ್ಥೆ
भाकृअनुप–राष्ट्रीय पशुरोग जानपदिक एवं सूचना विज्ञान संस्थान
ICAR–National Institute of Veterinary Epidemiology and Disease Informatics
ರಾಮಗೊಂಡನಹಳ್ಳಿ, ಯಲಹಂಕ, ಬೆಂಗಳೂರು – ೫೬೦೦೬೪, ಭಾರತ
रामगोंडनहल्लि, येलहंका, बेंगलूरू – ५६० ०६४, भारत.
Ramagondanahalli, Post Box No: 6450, Yelahanka, Bengaluru – 560064, INDIA.
राप जा सू वि सं
NIVEDI

CERTIFICATE

This is to certify that **Ms. SHEETHAL U M (YMB17116)**, M.Sc. Molecular Biology (Integrated) student of Yuvaraja's College, Mysore has satisfactorily completed 4 months internship on the dissertation work entitled **"Computational analysis to predict epitope candidates of S and N proteins against Bovine Coronavirus (BCoV) & Designing of Multimeric-peptide-based vaccine for bovine: An Intergraded Approach of Reverse Vaccinology and Immunoinformatics methodology"** from 20-04-2022 to 22-08-2022 under the supervision of **Dr K P Suresh,** Principal Scientist, Spatial Epidemiology Lab, ICAR-National Institute of Veterinary Epidemiology and Disease Informatics, Yelahanka, Bengaluru under my guidance in partial fulfilment of the requirements for the degree of **Master of Science in Molecular Biology (Integrated).**

Dr K P Suresh,
Principal Scientist,
Spatial Epidemiology Lab,
ICAR-NIVEDI

Dr. K.P. Suresh, MSc., Ph.D.
Principal Scientist (Biostatistics)
ICAR-NIVEDI, PBNo-6450
(Govt. of India)
Yelahanka, Bengaluru-560064

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysuru- 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Ms SHRYLI K S**, Reg. No: **YMB17118** has carried out the project work entitled **"To Study Genomic Instabilities of Ribosomal DNA and Associated Telomeres in Histone Deacetylase Mutants of *Arabidopsis thaliana*"** at the Department of Biological Sciences, BITS-Pilani, Hyderabad Campus, Hyderabad, in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Five Year Integrated) of the University of Mysore during the academic year 2021-22.

Place: Mysore

Date: 13/9/2022

13/9/2022

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

Principal
ಪ್ರಾಂಶುಪಾಲರು
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

Examiners

26/9/2022

26/9/2022

UNIVERSITY OF MYSORE
Yuvaraja's College (Autonomous)
Mysuru- 570 005

CERTIFICATE

This is to certify that the project entitled **"TO STUDY GENOMIC INSTABILITIES OF RIBOSOMAL DNA AND ASSOCIATED TELOMERES IN HISTONE DEACETYLASE MUTANTS OF ARABIDOPSIS THALIANA"** submitted by **Ms. SHRYLI K S** in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Five Year Integrated) of the University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Place: Hyderabad
Date: 06-08-2022

(Dr. Girees̄ha T Mohannath)
Guide/ Supervisor

UNIVERSITY OF MYSORE

YUVARAJA'S COLLEGE

(Constituent Autonomous College with Potential for Excellence)
Accredited 'A' grade with CGPA 3.34 by NAAC
JLB Road, Mysuru - 570 005

CERTIFICATE

This is to certify that Ms. **SINCHANA S** Reg. No: **YMB17119** has carried out the project work entitled **"Identification of some Phytochemicals from *Calotropis gigantea* and Molecular Docking Analysis against SARS-CoV-2: A Bioinformatics study'"** at the Department of Molecular Biology in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2021-2022

Place: MYSORE
Date: 23/08/2022

13/9/2022
Course Coordinator
Principal

22/9/22

26/9/2022

26/9/2022

ಭಾ.ಕೃ.ಸಂ.ಪ – ರಾಷ್ಟ್ರೀಯ ಪಶುರೋಗ ಸೋಂಕುಶಾಸ್ತ್ರ ಮತ್ತು ಮಾಹಿತಿ ವಿಜ್ಞಾನ ಸಂಸ್ಥೆ
भाकृअनुप–राष्ट्रीय पशुरोग जानपदिक एवं सूचना विज्ञान संस्थान
ICAR–National Institute of Veterinary Epidemiology and Disease Informatics
ರಾಮಗೊಂಡನಹಳ್ಳಿ, ಯಲಹಂಕ, ಬೆಂಗಳೂರು – ೫೬೦೦೬೪, ಭಾರತ.
रामगोंडनहल्लि, येलहंका, बेंगलूरू – ५६० ०६४, भारत.
Ramagondanahalli, Post Box No: 6450, Yelahanka, Bengaluru – 560064, INDIA.
राजा सूविस
NIVEDI

CERTIFICATE

This is to certify that **Ms. SINCHANA S (YMB17119)**, M.Sc. Molecular Biology (Integrated) student of Yuvaraja's College, Mysore has satisfactorily completed 4 months internship on the dissertation work entitled **"Identification of some phytochemicals from *Calotropis gigantea* and molecular docking analysis against SARS-CoV-2: A bioinformatics study"** from 20-04-2022 to 22-08-2022 under the supervision of **Dr K P Suresh**, Principal Scientist, Spatial Epidemiology Lab, ICAR-National Institute of Veterinary Epidemiology and Disease Informatics, Yelahanka, Bengaluru under my guidance in partial fulfilment of the requirements for the degree of **Master of Science in Molecular Biology (Integrated).**

Dr K P Suresh,
Principal Scientist,
Spatial Epidemiology Lab,
ICAR-NIVEDI

Dr. K.P. Suresh, MSc., Ph.D.
Principal Scientist (Biostatistics)
ICAR-NIVEDI, PBNo-6450
(Govt. of India)
Yelahanka, Bengaluru-560064

UNIVERSITY OF MYSORE

Yuvaraja's College (Autonomous)

Mysore – 570 005

DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that Ms. Sindu shree K N, Reg. No: YMB17120 has carried out the project work entitled "Fatty acid metabolism and its regulation in the peripheral blood CD8+ T cells of treated and untreated Rheumatoid arthritis patients" at the Institute of Bioinformatics and Applied Biotechnology, in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2022-2023.

Place: Mysore

Date: 13/9/2022

13/9/2022

Course Coordinator

Course Co-ordinator
5-year Integrated M.Sc. Course in Molecular Biology
Yuvaraja's College, University of Mysore
MYSORE-570 005

22/9/22

Principal

ಪ್ರಾಂಶುಪಾಲರು
ಯುವರಾಜ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
ಮೈಸೂರು-570 005

Examiners

26/9/2022.

26/9/2022

IBAB
Institute of Bioinformatics and Applied Biotechnology

CERTIFICATE

This is to certify that the project entitled "**Fatty acid metabolism and its regulation in the peripheral blood CD8+ T cells of treated and untreated Rheumatoid arthritis patients**" submitted by Ms. **SINDU SHREE K N, Registration No. YMB17120** in partial fulfilment of the requirement for the award of M.Sc. in Molecular Biology (Five Year Integrated) of the University of Mysore is based on the studies carried out by her under my guidance and supervision during the period from 21/04/2022 to 26/8/2022. Further it is also to certify that the above work has not been previously submitted elsewhere for any other degree.

2/09/2022

INSTITUTE OF BIOINFORMATICS AND APPLIED BIOTECHNOLOGY
BANGALORE

Dr. R. Srivatsan

Professor,

Institute of Bioinformatics and Applied Biotechnology,

Electronic City, Bangalore-560100, India.

DEPARTMENT OF MOLECULAR BIOLOGY

List of students with project work carried out during X semester

5 – year Integrated Molecular Biology M.Sc., Course(February to June - 4 Mon.)

Major ProjectReport Year 2017-2018

SlNO.	Name	Register No.	Year	Project Title	Guide	Institution
1	Abin. P. George	YMB13101	2018	Cloning and expression of *plasmodium falciparum* AP2 gene	Dr. Suchi goel	Indian institution of science education and research,Tirupati.
2	Anusha. G. C	YMB13102	2018	Expression analysis of collagen 1a and twist 3 during scale development in wild type and dermo mutant zebrafishes (*Danio rerio*)	Dr. Tressa Jacob	Independent scientist in biology IISER, pune.
3	Athira. P. N	YMB13104	2018	Using and characterization of aspartic proteinase Nepenthesin like (PNAPN) CDNA from *Piper Nigrum* L.	Dr. S. Manjula	Rajiv GandhiCentre for biotechnology, Thiruvananthapuram.
4	Bharathi. S.	YMB13105	2018	Identification and characterization of fungus associated with mulberry root rot disease from HD kote for transcription studies.	Dr. Ganesh B. N.	Central Sericulture research and training Institute, Mysuru.
5	Chaithanya G. B	YMB13106	2018	Cloning and expression of human Neuronatin in mammalian cells	Dr. Sandeep M. Eswarappa	Indian Institute of science, Bangalore.
6	Jonah. J.	YMB13107	2018	Molecular diagnosis of mulberry Root -knot Nematode for transcription studies	Dr. Ganesh B. N.	Central Sericulture research and training Institute, Mysuru.
7	Kannika. B. R	YMB13108	2018	Cell proliferation analysis during scale development in wild type and dermo mutantzebrafish (*Danio rerio*)	Dr. Tressa Jacob	Indian institute of science education andresearch, pune .

8	Madhusoodhan S. M	YMB13109	2018	Cloning and expression of eIFAG ll to study the role in matrix deprived condition	Prof. AnnapoorniRangarajan	Indian Institute of science, Bangalore
9	MedhaKarnik. S. R	YMB13110	2018	GAL12-deoxygalactose system as a tool to study genome instability in candida tropicalis	Prof.Kaustav Sanyal	Jawaharlal Nehru Centre for advanced scientific research, Bengaluru.
10	Prerana .M	YMB13111	2018	Study of inhibition of Biofilm by salmonella Typhimurium Δyjiy culture supernatant.	Prof. Dipshikha chakravorty	Indian Institute of science, Bangalore
11	Raghunandan .M	YMB13112	2018	Investigationof effect of novel HSP90 inhibitor on various cancer cell lines.	Dr. Bibha Choudhary.	Institute of bioinformatics and applied biotechnology biotech park, electronics city Phase 1, Bangalore.
12	Ramya. R	YMB13113	2018	To probe cross talk in vivo in mycobacterium tuberculosis two component system	Dr. Deepak. K. Saini	Indian Institute of science, Bangalore
13	Samhitha Urs. R	YMB13114	2018	Construction of a plasmid for the depletion of BLM helicase.	Prof.Ganesh Nagaraju	Indian Institute of science, Bangalore
14	Sanjanashajan	YMB13115	2018	Understanding the role ofFBXL in Puma Regulation	Dr. Manaskumar santra	National Centre for cell science, Pune.
15	Shreyadinesh	YMB13116	2018	To establish genotype -phenotype correlationin 1.An inborn error in metabolism 2.Ayurvedic prakritis: Two Contrasting studies.	Prof. B.K. Thelma	University of Delhi south campus.

16	Suraj.S. K	YMB13117	2018	Raising of MIp60 A polyclonal antibodies in order to study its role in muscle remodeling and MIp60A knock down experiments	Prof. Upendra Nongthomba	Indian Institute of science, Bangalore
17	Swathi. K	YMB13118	2018	Cloning of human butryophilin subfamily 2 member1(BTN2A1) Promoter	Dr. Sivakumarvallabha purapu	Indian institution of science education and research, Tirupati.

DEPARTMENT OF MOLECULAR BIOLOGY

List of students with project work carried out during X semester

5 – year Integrated Molecular Biology M.Sc., Course

Major Project Report Year 2020-21

Sl NO	Name	Register No.	Year	Project Title	Guide	Institution
1	Aditi L H	YMB16101	2020-21	Molecular variation in Mulberry polyploids using SSR marker	Dr. Gnanesh Nanjappa	Central Sericulture Research and Training Institute, Mysore
2	Aishwarya J P	YMB16102	2020-21	Molecular and Genetic Characterization of Mutants of Bacillus licheniformis, defective in Antibiotic Production	Dr. Prakash M Halami	CSIR-CFTRI
3	Anjali P M	YMB16103	2020-21	Molecular cloning of transcriptionally inactive PAX3a gene into the Retroviral vector	Dr. Mathivanan Jothi	Department of Human genetics, National Institute of Mental health and Neurosciences, Bangalore
4	Charan Chengappa P S	YMB16104	2020-21	Reciprocal regulatioin of NANOG and ERK/FGF signalling in Mouse Embryonic Stem Cell's	Dr. P Chandra Shekar	CSIR-Centre for Cellular and Molecular Biology, Hyderabad.
5	Dhaarini S Y	YMB16105	2020-21	Purification and biochemical characterisation of recombinant FAD synthetase from Bifidobacterium longum subsp. longum	Dr. Ravi Kumar	CSIR-CFTRI
6	Inchara R	YMB16106	2020-21	Screening of health care workers for colonisation of drug resistant bacteria	Dr.Anuradha.K	Mysore Medical College & Research Institute, Mysore

7	Jahnavi Narayan	YMB16107	2020-21	Molecualr Characterization of Mapping Population developed from Mulberry root rot resistant and susceptible parents	Dr Arunkumkar G S	Central Sericulture Research and Training Institute, Mysore
8	Kruthika M	YMB16108	2020-21	Effect of milk derived bioactive peptides on adipogenesis	Dr. Poornima Priyadarshini	CSIR-CFTRI
9	Madappa B.M	YMB16109	2020-21	Evaluation of genetic diversity among mulberry genotypes using SSR markers.	Dr. Gnanesh Nanjappa	Central Sericulture Research and Training Institute, Mysore
10	Madhura H U	YMB16110	2020-21	Derivtion of transparent biotemplate from fish scale for high sensitive shpectroscopy	Dr. Anil K. Suresh	SRM University , Amaravthi, Neerukonda, Guntur Andhra Pradesh 522502
11	Meghana J	YMB16111	2020-21	An in-silico analysis of pathogenic variants of PLA2G6	Prof. Sanjeev Jain	Department of Psychiatry, National Institute of Mental Health and Neuroscience, Bangalore
12	Mrudula D	YMB16112	2020-21	Structural modeling of LC3-LIR interactions	Dr.Lipi Thukral	CSIR-Institute of Genomics and Integrative Biology, Sukhdev Vihar Pocket B, Delhi
13	Neetha Thilosh K	YMB16113	2020-21	Immune assays to assess Immune response	Dr. Ravindra P V	CSIR-CFTRI
14	Parinitha L	YMB16114	2020-21	Elucidation of Sodium Taurocholate Co-Transporting Peptide (NTCP) Expression In	Dr. Ramaprasad T R	CSIR-CFTRI, Mysore

				Rat Liver By Western Blotting		
15	Prabhu Darshan	YMB16115	2020-21	The role of Bone Marrow HSC Niche in regulating the Hematopoietic Stem Cell Function	Dr. Sachin Kumar	CSIR-Central Drug Research Institute, Lucknow
16.	Prajwal B Koushik	YMB16116	2020-21	Analysis of PIP4K2A Interaction	Dr. Vasudevan Seshadri	National Centre For Cell Science, Pune
17.	Sachin G Swamy	YMB16117	2020-21	'To Define the Mechanism of hsrw gene Activation following Amide Treatment in Drosophila melanogaster'	Prof. S. C. Lakhotia	Banaras Hindu University, Varanasi, UP
18.	Shreyas H K	YMB16118	2020-21	An integrated bioinformatic analysis of miR-497/195 cluster network in cervical cancer	Dr. Shama Prasad Kabekkodu	Department of Cell and Molecular Biology, Manipal School of Life Sciences, MAHE
19	Sonuprem	YMB16119	2020-21	Exploring the diversity in soil microbiota using Morphological, Biochemical and Molecular Techniques	Dr. Ravi P.N. Mishra	CSIR- IMTECH, Chandigarh
20	Subash Chaithanya K	YMB16120	2020-21	The role of gut microbiota in modulating immune response in IBD	Dr. Amit Lahiri	CSIR-CDRI, Lucknow
21	Subiya Khan	YMB16121	2020-21	In-Silico designing of protein enriched with Essential Amino Acid	Dr. Prasanna Vasu	CSIR-CFTRI, Mysore
22	Syed Shahid Afridi	YMB16122	2020-21	Identification of spice bioactive P-gp inhibitors for reversal	Dr. Syed Musthapa	CSIR- CFTRI, Mysore

				of multidrug resistance in lung cancer	Meeran	

Sl. No	Name of the studen	Reg. No.	Mob. No.	Year	Project Title	Name of the Guide	Name of Institution with Location
1	Aishwarya J.D	YMB17102	8971849660	2022	Analysis of Pseudogene expression in Mycobacterium leprae	Dr. Shubhada Hegde	Institute of Bioinformatics and applied Biotechnology, Electronic city, Phase-1,Bengaluru,karnataka 560100
2	Aishwarya K	YMB17103	8197149515	2022	Application of molecular dynamics simulation to understand biomolecular structures and properties	Dr Debashree Bandopadhyay	Birla Institute of Technology & Science Pilani, Hyderabad Campus, Hyderabad, Telangana, 500078
3	Amarthya Siddhartha	YMB17104	7337758951	2022	Investigating functional complementation of Uip4, an NE/ER protein of *Saccharomyces cerevisiae* by mammalian TorsinA	Prof. Krishnaveni Mishra	University of Hyderabad, School of Life Sciences, South campus, Prof. C R Rao Road, Gachibowli, Hyderabad, Telangana -500046
4	Apoorva K.N	YMB17105	9113505127	2022	Isolation of DNA from Lungs samples and identification of Jaagsiekte sheep retrovirus by histopathology, PCR in small ruminants	Dr. Shivasharanappa N	ICAR-National Institute of Veterinary Epidemiology and disease informatics
5	Asha Raj	YMB17106	9482107255	2022	Elucidation of molecular and cellular mechanisms behind altered pain sensation in Syngap1+/- mice model of ASD	Prof. James Clement Premdoss Ch	Jawaharlal Nehru Centre For Advanced Scientific Research, Rachenahalli Lake Rd, Jakkur, Bengaluru - 560064
6	Deeksha P Hebbar	YMB17107	9448100366	2022	Identification of Presynaptic Autophagy regulators using a forward genetic screen.	Identification of Presynaptic Autoph	Jawaharlal Nehru Centre For Advanced Scientific Research, Rachenahalli Lake Rd, Jakkur, Bengaluru - 560064
7	Ganavi B	YMB17108	7338316651	2022	Cloning and purification of ECT2 mutant to understand the molecular basis of it's interaction with CYK4 protein	Dr. Neelagandan Kamariah	Institute for Stem Cell Science and Regenerative Medicine (inStem), GKVK - Post, Bellary Rd, Bengaluru, Karnataka 560065
8	Inchara R	YMB17109	6360474456	2022	Understanding autophagy flux using autophagy mutants in *Saccharomyces cerevisiae*	Dr. Ravi Manjithaya	Jawaharlal Nehru Centre For Advanced Scientific Research, Rachenahalli Lake Rd, Jakkur, Bengaluru - 560064
9	Kavyashree N	YMB17110	9972621678	2022	Understanding the effects of Atg1 overexpression in Drosophila model of Huntington Disease	Dr Sheeba Vasu	Jawaharlal Nehru Centre For Advanced Scientific Research. Rachenahalli Lake Rd, Jakkur, Bengaluru, Karnataka 560064
10	Mahima Kumar K.S	YMB17111	9739708887	2022	Investigation of novel peptides for Levodopa induced dyskinase.	Dr Chandan S	JSS Academy of Higher Education and Research, Mysore-570015
11	Prajwal S	YMB17112	7892702504	2022	Investigation of Xenophagic flux using bacterial pathogens.	Dr. Ravi Manjithaya	Jawaharlal Nehru Centre For Advanced Scientific Research. Rachenahalli Lake Rd, Jakkur, Bengaluru - 560064
12	Preethi B.R	YMB17113	9900378302	2022	Determination and evaluating the effect of Biopesticide (Essential oil) on stored grain pests.	Dr. Manjunath Prabhu	Central food technological research institute,Valmiki Main Rd, opp. Railway Museum, Kajjihundi, Mysuru, Karnataka 570020
13	Prerana S Bhat	YMB17114	8762399079	2022	Characterization of sleep in chronotype population of drosophila	Dr Sheeba Vasu	"Jawaharlal Nehru Centre For Advanced Scientific Research. Rachenahalli Lake Rd, Jakkur, Bengaluru, Karnataka 560064"
14	Shashank M.S	YMB17115	8105491989	2022	Designing and cloning of vector constructs to study mechanism of action of lncRNA TUG1	Dr Ragella kumaraswamy	Centre for cellular and molecular biology, CGCR+CC3, Uppal Rd, IICT Colony, Habsiguda, Hyderabad, Telangana 500007
15	Sheethal U.M	YMB17116	8431707603	2022	Immunoinformatics approach to design Multi-Epitope Subunit Vaccine against Bovine Coronavirus	Dr. K P Suresh	ICAR-National Institute of Veterinary Epidemiology and disease informatics
16	Shryli K.S	YMB17118	8277395486	2022	To Study Genomic Instabilities of Ribosomal DNA and Associated Telomeres in Histone Deacetylase Mutants of Arabidopsis thaliana	Dr. Gireesha T Mohannath	Birla Institute of Technology & Science Pilani, Hyderabad Campus, Hyderabad, Telangana, 500078
17	Sinchana S	YMB17119	8217541925	2022	Identification of some phytochemicals from *Calatropis gigantea* and molecular docking analysis against SARS-CoV-2 : A Bioinformati	Dr. K P Suresh	ICAR-National Institute of Veterinary Epidemiology and disease informatics
18	Sindhushree K.N	YMB17120	9606610920	2022	Fatty acid metabolism and it's regulation in the peripheral blood CD8+ T-cells of treated and untreated Rheumatoid Arthritis patients	Prof. R Srivatsan	Institute of Bioinformatics and applied Biotechnology, Electronic city, Phase-1,Bengaluru,karnataka 560100