

## BONIFADE CERTIFICATE

Certified that this dissertation work titled "DEVELOPMENT OF NOVEL PERVAPORATION MEMBRANES FOR THE SEPARATION OF BIOBUTANOL: TO BE A VIABLE NEXT GENERATION BIOFUEL" is the bonafide work of Ms. MANASA.A (BAS20MBC011), Ms. YUKTHI.H.S. (BAS20MBC022) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date: 20/06/22

  
20/6/22

Assistant professor, Department of Chemistry

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Dr. Sunil S More  
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Certified that this dissertation work titled Estimation of Phytochemical constituents and invitro antioxidant potencies, anti inflammatory activities of *Callisia repens* & *Psoralea corylifolia* is the bonafide work of Mr. GAJENDRA K (BAS20MBC009) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

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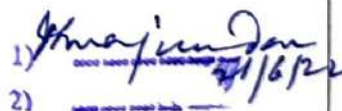
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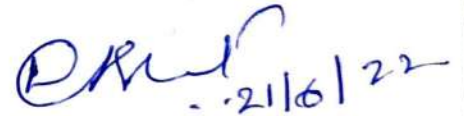
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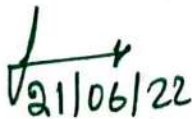
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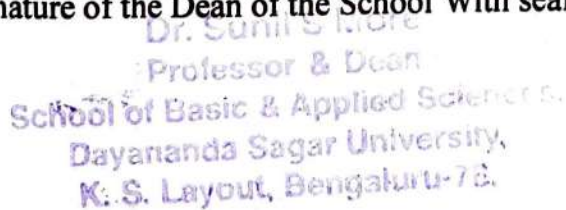
Dr. Ganapathi Bhat

Associate professor


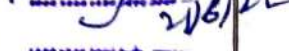
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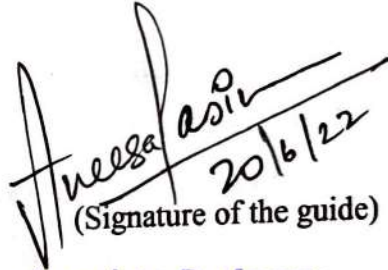
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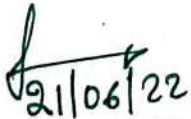
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## Bonafide Certificate

Certified that this dissertation work title 'EXTRACTION AND ESTIMATION OF HYDROCARBON DEGRADING ENZYMES DIRECTLY FROM SOIL SAMPLES COLLECTED FROM OIL POLLUTED SITES' is the bonafide work of Ms. ARUNA SHEKHAR NC (USN) BAS20MBC004 who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

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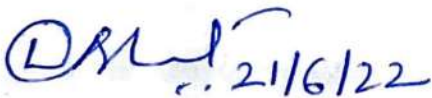
Chief Superintendent  
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EXAMINERS :

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Certified that this dissertation work titled ISOLATION AND IDENTIFICATION OF SERUM PROTEINS USING ULTRA PERFORMANCE LIQUID CHROMATOGRAPHY MASS SPECTROMETRY is the bonafide work of Mr./ Ms Rakshith R (USN) BAS20MBC016 who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

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(Signature of the Dean with seal)

Dr. Sunil S. More  
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Date: June 2022

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EXAMINERS :

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Certified that this dissertation work titled CHEMICAL ANALYSIS OF EDIBLE OIL AND ITS NUTRITION is the bonafide work of Mr./ Ms MANU V R (USN) BAS20MBC012 who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

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- 1)
- 2)

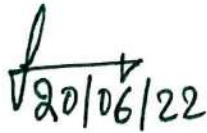
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Certified that this dissertation work titled "ISOLATION, IDENTIFICATION AND OPTIMIZATION OF ALAKALOPHILE  $\gamma$ -CGTase FOR THE PRODUCTION OF INDUSTRIALLY IMPORTANT  $\gamma$ -CYCLODEXTRIN" is the bonafide work of Ms. DEEKSHA C. (BAS20MBC007), Ms. LAVANYA B. (BAS20MBC010), Ms. SANJANA D. (BAS20MBC018) and Ms. SHRUTHI BHASKAR POOJARI (BAS20MBC020), who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date: 21/6/2022

  
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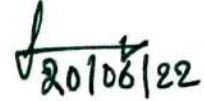
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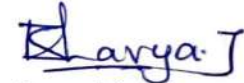
Certified that this dissertation work titled "*In-vitro* ANTIVENOM POTENTIAL OF *Clitoria ternatea* EXTRACT ON *Echis carinatus*" (INDIAN SAW SCALED VIPER) is the bonafide work of Ms. Beula (BAS20MBC005), Mr. G. Pradyumna (BAS20MBC008), Ms. Rajeetha.A (BAS20MBC015), Ms. Revathi.S (BAS20MBC017), Ms. Shraddha suman (BAS20MBC019), who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date : 20/06/22

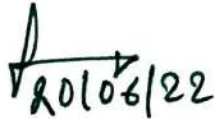
  
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(Signature of the Guide)

**Dr. Sunil S More**  
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Co-guided by  
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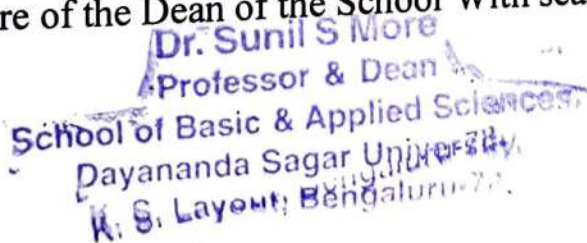
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Assistant professor, Biochemistry Department

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Signature of the Dean of the School With seal

  
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Date: 22.06.22



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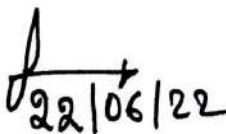
Certified that this dissertation work titled "ASSESSING THE EFFECTS OF FISH OIL SUPPLEMENTATION IN *DROSOPHILA* LEARNING AND DEVELOPMENT" is the bonafide work of Ms. Rakshitha S (BAS20MHG007) and Ms. Humaira Maqbool (BAS20MHG003) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date : 22.06.22

  
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**Dr. Ajay Nair**

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22/06/22  
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Date: 21/06/2022

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**Dr. ARCHANA S. RAO**  
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Department of Life Sciences,  
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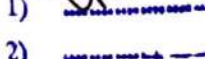
Signature of the Dean of the School with seal

Dr. Sunil S More

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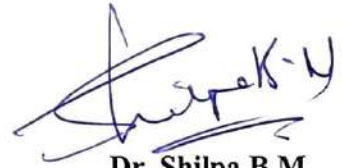
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**Dr. Shilpa B M**

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- 1) \_\_\_\_\_  
2) \_\_\_\_\_

## Bonafede Certificate

Certified that this dissertation work titled " EXPLORATION OF WILD EDIBLE MUSHROOM FOR MORPHOLOGY AND NUTRITIONAL PROPERTIES " is the Bonafede work of Ms. BHOOMIKA S (BAS20MMB006), CHAITANYA N (BAS20MMB009), HARSHITHA G K (BAS20MMB014) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

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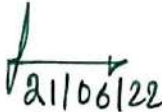


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EXAMINERS :

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## Bonafide Certificate

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Date: 20/06/2022

*Manjula*

(Signature of the Guide)

Dr Manjula N G

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*Sunil S More*  
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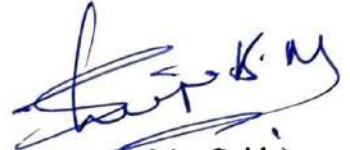
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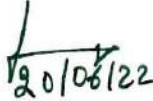
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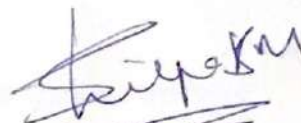
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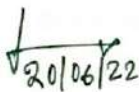
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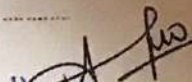
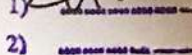


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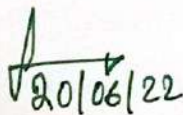
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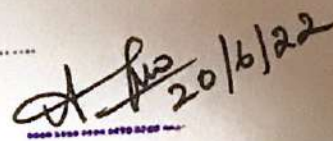
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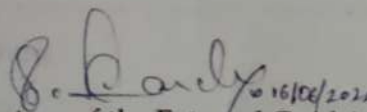
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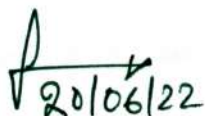


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17.06.2022

### Certificate of Internship

*This is to certify that Miss Varshini S, pursuing M Sc in Biotechnology at Dayananda Sagar University, Bangalore, bearing University Seat Number BAS20MBT036 has successfully completed research project required for final year dissertation at Combustion Gasification and Propulsion Laboratory, Indian Institute of Science, Bangalore from 3rd January 2022 till 20<sup>th</sup> May 2022. During the period, she has worked on "Characterization and Treatment of Gasifier Wastewater" under my supervision.*

Prof. S. Dasappa

Dr. S. Dasappa  
Professor  
Centre for Sustainable Technologies  
Indian Institute of Science  
Bangalore - 560 012, India

## Bonafide Certificate

Certified that this dissertation work titled **SYNTHESIS, CHARACTERIZATION, AND EVALUATION OF ANTIMICROBIAL AND ANTICANCER PROPERTIES OF SILVER NANOPARTICLE PREPARED BY GREEN APPROACH USING SAUROPUS ANDROGYNUS LEAF EXTRACT** is the bonafide work of Ms **KAVYA T R** (BAS20MBT006) and **SHRAVANI S** (BAS20MBT027) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

V - tha

Date :

18/06/2022

(Signature of the Guide)

Designation

Assistant Professor,  
Department of Life Sciences,  
School of Basic & Applied Sciences,  
Dayananda Sagar University  
Kumaraswamy Layout,  
Bangalore - 560 078.

20/06/22

Signature of the Dean of the School With seal

Dr. Sunil S More  
Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

VALUED  
EXAMINERS :

1)

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2)

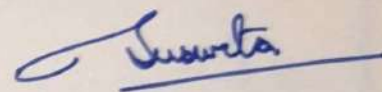
.....

Neesha  
21/06/22

# BONAFIDE CERTIFICATE

## PLAGIARISM REPORT

Certified that this dissertation work titled "BIOPROSPECTION OF BIOACTIVE COMPOUNDS FROM BACTERIAL SOURCES USING GENOMICS" is the bonafide work of Ms. Payel Saha (BAS20MBT016) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

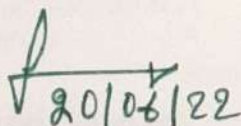


(Signature of the Guide)

Dr. Susweta Das Mitra

Date: June,2022

Assistant Professor  
**Associate Professor**  
Department of Biological Sciences  
School of Basic & Applied Sciences  
Dayananda Sagar University  
Kumaraswamy Layout  
Bangalore-560 078



20/06/22

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Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

VALUED  
EXAMINERS :

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20/06/22

2)

20/06/22

iv

Ref. No. AB/CF/1055/22

Date: 17<sup>th</sup> June 2022

## CERTIFICATE

*This is to certify that Ms. Pooja R and Swetha L a student of M.Sc., Biotechnology from Dayananda Sagar University Bengaluru has successfully completed Dissertation work entitled "Production and Optimisation of Probiotic Juice from Syzygium jambos" from 18<sup>th</sup> Jan 2022 to 5<sup>th</sup> May 2022 at Azyme Biosciences Pvt Ltd, Bengaluru.*

*Mahesh. M*

Mahesh. M  
CEO



Date: 16-June-2022

**To Whom It May Concern**

Certified that the project work entitled “**Identification of key genes and their expression regulation mechanism in the context of Spermatogenesis**” was carried out by **Ms. Pooja Rawat**, [BAS20MBT018], a student of Dayananda Sagar University, Bengaluru, in partial fulfillment for the award of MSc Biotechnology, from January 07<sup>th</sup> 2022 to 12<sup>th</sup> June 2022. It is certified that she has completed the project satisfactorily.

*Kshitish*

Kshitish Acharya  
PhD



Founder Director

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[www.shodhaka.net](http://www.shodhaka.net)

Date: 16-June-2022

**To Whom It May Concern**

Certified that the project work entitled “**Identification of key genes and regulatory networks: A mass scale *in Silico* analysis of differentially expressed genes in Breast Cancer**” was carried out by **Ms. Pragya Singh**, [BAS20MBT020], a student of Dayananda Sagar University, Bengaluru, in partial fulfillment for the award of MSc Biotechnology, from January 07<sup>th</sup> 2022 to 12<sup>th</sup> June 2022. It is certified that she has completed the project satisfactorily.

*Kshitish*

Kshitish Acharya  
PhD



Founder Director

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# Bonafide Certificate

Certified that this dissertation work titled "Quality analysis of raw materials used for the formulation of wound care products" is the bonafide work of Mr. Vinouth M (BAS20MBT039) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date: 18/06/22

Mi 18/06/22

Dr. Triveni. K  
Assistant Professor,  
Department of Sciences,  
School of Basic & Applied Sciences  
Dayananda Sagar University,  
Kumaraswamy Layout,  
Bangalore - 560 078.

20/06/22

Dr. Sunil S More

The Dean, School of Basic and Applied Sciences

Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

21/06/22

VALUED  
EXAMINERS :

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_



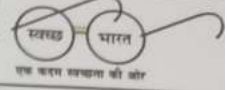
ಭಾ.ಕೃ.ಸಂ.ಪ. - ಭಾರತೀಯ ತೋಟಗಾರಿಕೆ ಸಂಶೋಧನಾ ಸಂಸ್ಥೆ  
ಹೆಸರಗಟ್ಟ ಅಂಚೆ, ಬೆಂಗಳೂರು - ೫೬೦ ೦೮೯

ಭಾ. ಕೃ.ಅನು. ಪ - ಭಾರತೀಯ ಬಾಗವಾನಿ ಅನುಸಂಧಾನ ಸಂಸ್ಥಾನ  
ಹೆಸರಗಟ್ಟಾ ಲೇಕ ಪೋಸ್ಟ್, ಬೆಂಗಳೂರು - 560 089

ICAR - INDIAN INSTITUTE OF HORTICULTURAL RESEARCH  
Hesaraghatta Lake Post, Bengaluru-560 089



❖ ಸರ್ದಾರ್ ಪಟೆಲ್ ಉತ್ಕೃಷ್ಟ ಭಾ.ಕೃ.ಅನು.ಪ. ಸಂಸ್ಥಾನ ಪುರಸ್ಕಾರ 1999 & 2010 ❖  
❖ Sardar Patel Outstanding ICAR Institution Award 1999 & 2010 ❖  
ISO 9001 : 2008



Dr. P.Nandeeshha MSc(Ag), PhD

Date: 18-6-2022

Senior Scientist (Agril. Biotechnology)

### CERTIFICATE

This is to certify that Mr. Manikanta R, Mr. Samrudh MM, Mr. Sairam NR and Mrs. Vidyashree CM, MSc (Biotechnology) final year students of Dayananda Sagar University, Bangalore, have successfully completed MSc research project during February 2022 – May, 2022. The project work embodied in the present dissertation entitled “Tissue Culture Intervention in Various Horticulture Crop (Papaya, Grapes, Brinjal and Pomegranate)” was carried out under my supervision and guidance, at the Division of Basic Sciences, ICAR-Indian Institute of Horticultural Research, Hesaraghatta, Bengaluru.

DATE: 18-06-2022  
PLACE: Bangalore

*P. Nandeeshha 18/6/22*  
Signature of the supervisor  
(Dr. Nandeeshha P)  
Senior Scientist (Agril. Biotechnology)  
Division of Basic Sciences

Division of Biotechnology  
ICAR - Indian Institute of Horticultural Research  
Ministry of Agriculture, Govt. of India  
Hesaraghatta Lake Post, BANGALURU - 560 089



## BONAFIDE CERTIFICATE

Certified that this dissertation work titled "TISSUE CULTURE INTERVENTIONS IN VARIOUS HORTICULTURAL CROPS (PAPAYA, BRINJAL, GRAPE POMOGRANATE)" is the bonafide work of **Mr. Manikanta.R(BAS20MBT009),**

**Mr. Sairam.N.R(BAS20MBT024), Mr. Samrudh.M.M(BAS20MBT025),**

**Ms. Vidyashree.C.M(BAS20MBT037)** who carried out the work Under my supervision.

This is to further certify, that to the best of my knowledge the work Reported herein does not form part of any other dissertation on the basis of which a degree or Award was conferred on an earlier occasion on this or any other candidate.

Date: 20.06.2021

(Signature of the guide)

Assistant Professor,  
Department of Life Sciences,  
School of Basic & Applied Sciences  
Dayananda Sagar University,  
Kumaraswamy Layout,  
Bangalore - 560 078.

VALUED  
EXAMINERS :

- 1)
- 2)

Signature of the Dean of the school with seal  
Dr. Sunil S More  
Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-7E.

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Certified that this dissertation work titled "Variants in *IRGM*, *CIDEA* and *FCGR3B* are associated with Non Alcoholic Fatty Liver Disease in Indian population" is the bonafide work of Ms Dechamma K.A (BAS20MBT004), Ms Merlyn Rodrigues (BAS20MBT011), Ms Sucheta Subramani (BAS20MBT030) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

V-then

Date: 18/06/2022

Dr Vineetha MS

Assistant professor,  
Department of Life Sciences,  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
Kumaraswamy Layout,  
Bangalore - 560 078.


20/06/22

Dr. Sunil S More

Signature of the Dean of the School With seal  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K.S. Layout, Bengaluru-78.

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EXAMINERS :

1)  
2)

  
21.6.22



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**DEPARTMENT OF NEUROMICROBIOLOGY**

NIMH/NMB/2021

31 July 2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms.Anusha Ganeshan, a undergraduate student of Dayananda Sagar Univeristy was on internship programme under the guidance of Dr. S.Nagarathna, Professor & Head in the Department of Neuromicrobiology, NIMHANS, Bengaluru, from 03.07.2021 to 31.07.2021. She has completed the training successfully.

I wish her all the best in her future endeavors.

*S. Nagarathna*  
Dr.S.Nagarathna  
Professor and Head

Department of Neuromicrobiology  
National Institute of Mental Health &  
Neuro Sciences, Bangalore-560 029

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**DEPARTMENT OF NEUROMICROBIOLOGY**

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20 September 2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Neetu.M from Dayananda Sagar University, has completed an internship training under the guidance of Dr. S.Nagarathna, Professor & Head in the Department of Neuromicrobiology, NIMHANS, Bengaluru, from 01.06.2021 to 30.07.2021. She has completed the training successfully.

I wish her all the best in her future scientific endeavors.

*Nagarathna S*  
Dr.S.Nagarathna 20/9/21,

Professor & Head

Dept. of Neuromicrobiology

Dr. Nagarathna. S  
डॉ। नागरत्ना. एस  
Professor & Head / प्राध्यापक और प्रमुख  
Department of Neuromicrobiology  
न्यूरोमैक्रोबायोलॉजी विभाग  
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(Reg. No. BHI5050)

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ON-TIME COMPLETION	:	<u>8</u>	OUT OF 15
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*J. Sanyal*

DIRECTOR



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20 September 2021

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This is to certify that Ms. Supriya Sudarshana from Dayananda Sagar University, has completed an internship training under the guidance of Dr. S. Nagarathna, Professor & Head in the Department of Neuromicrobiology, NIMHANS, Bengaluru, from 26.05.2021 to 26.07.2021. She has completed the training successfully.

I wish her all the best in her future scientific endeavors.

*Nags.*  
Dr. S. Nagarathna 20/9/21

Professor & Head

Dept. of Neuromicrobiology

Dr. Nagarathna. S  
डॉ। नागरत्ना. एस  
Professor & Head / प्राध्यापक और प्रमुख  
Department of Neuromicrobiology  
न्यूरोमैक्रोबायोलॉजी विभाग  
NIMHANS Bengaluru-560 029

Ref: Mylan/SPD-HR/2021/TR-02  
Date: 04<sup>th</sup> January 2021

**CERTIFICATE**

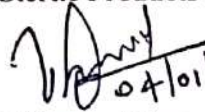
This is to certify that Ms. Sushma Rao. V, Bachelor of Science student of Dayananda Sagar University has successfully completed Industrial Training/Internship as per the schedule given by us from 22<sup>nd</sup> December 2020 to 04<sup>th</sup> January 2021 in our organization.

During her training, she has exposure in Quality department.

Her conduct during the tenure at our organization was good.

We wish her all the very best for her future endeavors.

**For Mylan Laboratories Limited.,  
(Sterile Products Division)**

  
04/01/2021

**Chidanand Vasanth  
Deputy General Manager – HR**

## BONAFIDE CERTIFICATE

Certified that this dissertation work titled "THE STUDY ON IMPACT OF SPERM DNA FRAGMENTATION INDEX ON SEMEN PARAMETERS IN DIABETES PATIENTS" is the Bonafide work of Ms. CHAITHRA M (BAS20MHG002) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date: 22.06.22



Signature of the Internal Guide  
Assistant Professor,  
Department of Life Sciences,  
School of Basic & Applied Sciences  
Dayananda Sagar University,  
Kumaraswamy Layout,  
Bangalore - 560 078.



17-06-22  
DR.M. Asif

Signature of the External Guide  
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Bangalore South Taluk, Bangalore-560 100



22/06/22

Signature of the Dean of the School with seal  
Dr. Sunil S More  
Professor & Dean  
School of Basic & Applied Sciences,  
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K. S. Layout, Bengaluru-78.

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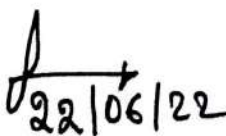
Certified that this dissertation work titled "ASSESSING THE EFFECTS OF FISH OIL SUPPLEMENTATION IN *DROSOPHILA* LEARNING AND DEVELOPMENT" is the bonafide work of Ms. Rakshitha S (BAS20MHG007) and Ms. Humaira Maqbool (BAS20MHG003) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date : 22.06.22

  
(Signature of the Guide)

**Dr. Ajay Nair**

**Assistant Professor**  
Assistant Professor,  
Department of Life Sciences,  
School of Basic & Applied Sciences  
Dayananda Sagar University,  
Kumaraswamy Layout,  
Bangalore - 560 078.

  
Signature of the Dean of the School with seal  
Dr. Sunil S More  
Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

4

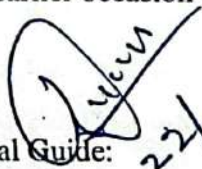
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## BONAFIDE CERTIFICATE

Certified that this dissertation work titled "INTERPRETATION AND ANALYSIS OF INHERITED GENETIC DISEASES USING NEXTGENERATION SEQUENCING" is the bonafide work of Ms. ANUSHREE B S (BAS20MHG001) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


Internal Guide:

  
22/06/22

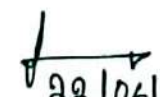
**Dr. Dinesh SM**  
Assistant Professor,  
Department OF Human Genetics  
School of Basic and Applied Sciences  
Dayananda Sagar University, Bangalore.

Assistant Professor,  
Department of Life Sciences,  
School of Basic & Applied Sciences  
Dayananda Sagar University,  
Kumaraswamy Layout,  
Bangalore - 560 078.

External Guide:

  
**Dr. Thenral SG**  
Principal Scientist,  
MedGenome Lab Ltd.  
Bangalore.

Dean:

  
22/06/22  
**Dr. Sunil S More**  
Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-7E.

VALUED  
EXAMINERS :

1)  
2)

  
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Registered Office

**MedGenome Labs Ltd**

3rd Floor, Narayana Nethralaya Building,  
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Hosur Road, Bengaluru - 560 099, India.

T: +91 (0) 80 6715 4901

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**To Whomsoever It May Concern**

**20-June-22**

This is to certify that **Ms. Anushree B S (USN No: BAS20MHG001)**, has successfully completed her internship from **27<sup>th</sup> January 2022** to **20<sup>th</sup> June 2022** at MedGenome Labs Ltd.

She has done her internship in the **Lab Operations Department** at MedGenome and has successfully completed the project in **Interpretation And Analysis of Inherited Genetic Diseases Using Next Generation Sequencing** under the guidance of **Dr. Thenral S G, Principal Scientist**.

During the period of her internship, her conduct and performance was found to be good.

We wish her all the best in her future endeavours.

With Best Wishes,

For MedGenome Labs Ltd.,

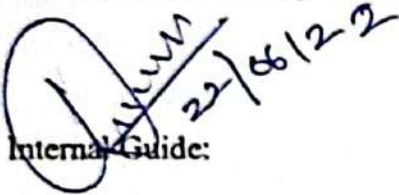
**Vachana Jayaram**

**Associate Director - Human Resources**

Branch Office: MedGenome Labs Ltd SDF-17, 1<sup>st</sup> Floor, C Block, CSEZ, Cochin, Kerala-682037 Phone: 04842413115  
CIN: U73100KA2013PTC084414 | E: [contact@medgenome.com](mailto:contact@medgenome.com) | Toll free: 18001028401

## BONAFIDE CERTIFICATE

Certified that this dissertation work titled "Next Generation Sequencing and Variant Analysis in Patients with Rare Mendelian Disorders" from MedGenome Labs Ltd is the bonafide work of Ms. ROSHINI BR (USN) BAS20MHG008 who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

  
22/06/22

Internal Guide:

**Dr. Dinesh SM**  
Assistant Professor,  
Department OF Human Genetics  
School of Basic and Applied Sciences  
Dayananda Sagar University, Bangalore.

Assistant Professor,  
Department of Life Sciences,  
School of Basic & Applied Sciences  
Dayananda Sagar University,  
Kumaraswamy Layout,  
Bangalore - 560 078.



External Guide:

**Dr. Thenral SG**  
Principal Scientist,  
MedGenome Lab Ltd.  
Bangalore.

Dean:   
22/06/22

**Dr. Sunil S More**  
Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

VALUED  
EXAMINERS :

1) \_\_\_\_\_  
2) \_\_\_\_\_



Registered Office

**MedGenome Labs Ltd**  
3rd Floor, Narayana Nethralaya Building,  
Narayana Health City, # 258/A, Bommasandra,  
Hosur Road, Bengaluru - 560 099, India.  
T. +91 (0) 80 6715 4901  
www.medgenome.com



**To Whomsoever It May Concern**

**20-June-22**

This is to certify that **Ms. Roshini B R (USN No: BAS20MHG008)**, has successfully completed her internship from 27<sup>th</sup> January 2022 to 20<sup>th</sup> June 2022 at MedGenome Labs Ltd.

She has done her internship in the **Lab Operations Department** at MedGenome and has successfully completed the project in **Next Generation Sequencing and Variant Analysis in Patients with Rare Mendelian Disorders** under the guidance of **Dr. Thenral S G, Principal Scientist**.

During the period of her internship, her conduct and performance was found to be good.

We wish her all the best in her future endeavours.

With Best Wishes,

For MedGenome Labs Ltd.,

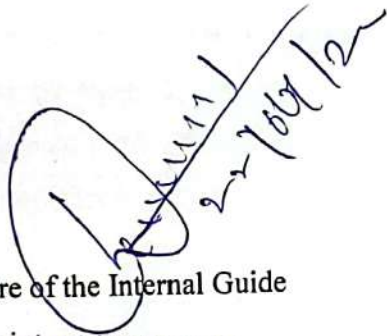
**Vachana Jayaram**

**Associate Director - Human Resources**

# BONAFIDE CERTIFICATE

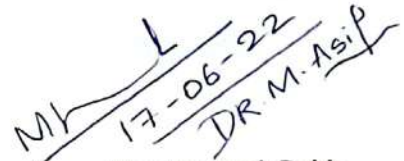
Certified that this dissertation work titled "THE STUDY ON IMPACT OF SPERM DNA FRAGMENTATION INDEX ON INTRAUTERINE INSEMINATION OUTCOMES" is the bonafide work of Mrs. JYOTHI BAIN (BAS20MHG004) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date: 22/06/2022



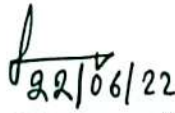
Signature of the Internal Guide

Assistant Professor,  
Department of Life Sciences,  
School of Basic & Applied Sciences  
Dayananda Sagar University,  
Kumaraswamy Layout,  
Bangalore - 560 078.



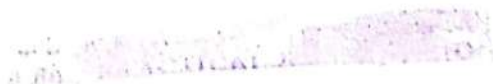
Signature of the External Guide

GARBHA GUDI IVF CENTRE PVT. LTD.  
(The Cosmic Womb)  
3rd Floor, Ganesh Tower, Survey No. 60/5 & 60/6  
Hosur Main Road, Konappana Agrahara Village,  
Begur Hobli, Electronic City,  
Bangalore South Taluk, Bangalore-560 100




Signature of the Dean with seal

Dr. Sunil S More  
Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.



VALUED  
EXAMINERS:

- 1) 
- 2) \_\_\_\_\_

Date: 17/06/2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. **Jyothi Bai N** a student of M. Sc in **Human Genetics** from **Dayananda Sagar University, BANGALORE** has done internship in our organization starting from 1-02-2022 till 1-05-2022 for 3 months in "The impact of sperm DNA fragmentation index on intrauterine insemination outcomes."

Thanks & Regards

*M/*  
*17-06-22*  
Dr. Muhammed Asif

Clinical Research Officer - GGIRHR

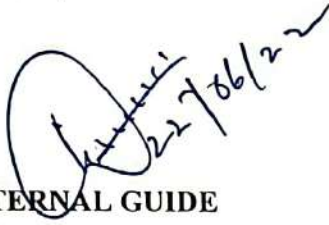
GARBHA GUDI IVF CENTRE PVT. LTD.  
(The Cosmic Womb)  
3rd Floor, Ganesh Tower, Survey No. 60/5 & 60/6  
Hosur Main Road, Konappana Agrahara Village,  
Begur Hobli, Electronic City,  
Bangalore South Taluk, Bangalore-560 100

GarbhaGudi Institute of Reproductive Health and Research (GGIRHR)  
A unit of GarbhaGudi IVF Centre) #26, 1<sup>st</sup> floor, Patalamma Temple street,  
Near Metro Station, South End Circle, Jayanagar, Bengaluru- 560004

@ training@garbhagnan.com  
☎ 080-2656 4777  
☎ +91 89711 51111

# BONAFIDE CERTIFICATE

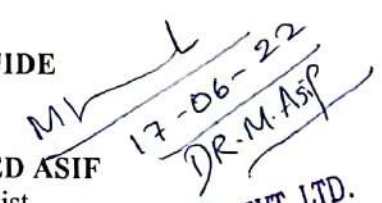
Certified that this dissertation work titled "Impact of COVID-19 vaccination on male infertility: A multicentric cohort study" is the bonafide work of SHWETHA G (BAS20MHG009), who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which degree or award was conferred on an earlier occasion on this or any other candidate.

  
22/06/22

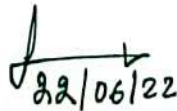
INTERNAL GUIDE

**Dr. DINESH S M**  
Assistant Professor  
School of Basic and Applied Sciences  
Dayanada Sagar University, Bangalore.  
Assistant Professor,  
Department of Life Sciences,  
School of Basic & Applied Sciences  
Dayananda Sagar University,  
Kumaraswamy Layout,  
Bangalore - 560 078.

EXTERNAL GUIDE

  
Dr. MUHAMMED ASIF  
Senior Embryologist  
GGIRHR Institute  
Bangalore

**GARBHA GUDI IVF CENTRE PVT. LTD.**  
(The Cosmic Womb)  
3rd Floor, Ganesh Tower, Survey No. 60/5 & 60/6  
Hosur Main Road, Konappana Agrahara Village,  
Begur Hobli, Electronic City,  
Bangalore South Taluk, Bangalore-560 100

  
22/06/22

Signature of the Dean of the school with seal

Dr. Sunil S Mote  
Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

  
VALUED  
EXAMINERS :  
1)   
2) 

Date: 17/6 /2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. Shwetha G** a student of **M. Sc in Human Genetics** from **Dayananda Sagar University, BANGALORE** has done internship in our organization starting from 1-02-2022 till 1-05-2022 for 3 months in **“Impact of COVID-19 vaccination on male infertility: A multicentric retrospective cohort study.”**

Thanks & Regards

**Dr.Muhammed Asif**  
**Clinical Research Officer - GGIRHR**



## BONAFIDE CERTIFICATE

This is to certify that, this dissertation work titled "*Isolation & Identification of cholesterol lowering properties of probiotic strains*" is the Bonafide work of **Levaku Swetha (BAS20MBT007)** who carried out the work under Dr. Susweta Das supervision. This is to further certify, that to the best of my knowledge the work reported does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

*Susweta*  
20/06/2022 .

**Date: Signature of Guide**  
Associate Professor  
Department of Biological Sciences  
School of Basic & Applied Sciences  
Dayananda Sagar University  
**Designation**  
Kumaraswamy Layout  
Bangalore-560 078

*Sunil S More*  
20/06/22

**Signature of the Dean of the school with seal**

Dr. Sunil S More

Professor & Dean

School of Basic & Applied Sciences,

Dayananda Sagar University,

K. S. Layout, Bengaluru-72.

VALUED  
EXAMINERS :

1)

2)

*Swetha*  
21.6.22



## BONAFIDE CERTIFICATE

This is to certify that, this dissertation work titled "*Isolation & Identification of cholesterol lowering properties of probiotic strains*" is the Bonafide work of **Levaku Swetha (BAS20MBT007)** who carried out the work under Dr. Susweta Das supervision. This is to further certify, that to the best of my knowledge the work reported does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

*Susweta*  
20/06/2022 .

**Date: Signature of Guide**  
Associate Professor  
Department of Biological Sciences  
School of Basic & Applied Sciences  
Dayananda Sagar University  
**Designation**  
Kumaraswamy Layout  
Bangalore-560 078

*Sunil S More*  
20/06/22

**Signature of the Dean of the school with seal**

Dr. Sunil S More

Professor & Dean

School of Basic & Applied Sciences,

Dayananda Sagar University,

K. S. Layout, Bengaluru-72.

VALUED  
EXAMINERS :

1)

2)

*Swetha*  
21.6.22



**NATIONAL INSTITUTE OF MENTAL HEALTH AND NEURO SCIENCES**

**(Institute of National Importance), Bengaluru – 560 029**

राष्ट्रीय मानसिक स्वास्थ्य और तंत्रिका विज्ञान के संस्थान (राष्ट्रीय महत्व का संस्थान), बेंगलुरु - 560 029  
ರಾಷ್ಟ್ರೀಯ ಮಾನಸಿಕ ಆರೋಗ್ಯ ಮತ್ತು ನರ ವಿಜ್ಞಾನ ಸಂಸ್ಥೆ (ರಾಷ್ಟ್ರೀಯ ಪ್ರಾಮುಖ್ಯತಾ ಸಂಸ್ಥೆ), ಬೆಂಗಳೂರು - 560 029

**DEPARTMENT OF NEUROMICROBIOLOGY**

NIMH/NMB/2021

31 July 2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms.Anusha Ganeshan, a undergraduate student of Dayananda Sagar Univeristy was on internship programme under the guidance of Dr. S.Nagarathna, Professor & Head in the Department of Neuromicrobiology, NIMHANS, Bengaluru, from 03.07.2021 to 31.07.2021. She has completed the training successfully.

I wish her all the best in her future endeavors.

*S. Nagarathna*  
Dr.S.Nagarathna  
Professor and Head

Department of Neuromicrobiology  
National Institute of Mental Health &  
Neuro Sciences, Bangalore-560 029

☎ 91-80-26995000, 26995100, 26995200, 26995300, 26995400  
Fax : 91-80-26564830, 26562121, 26566811, Website : <http://www.nimhans.ac.in>



**NATIONAL INSTITUTE OF MENTAL HEALTH AND NEURO SCIENCES**

**(Institute of National Importance), Bengaluru – 560 029**

**राष्ट्रीय मानसिक स्वास्थ्य और तंत्रिका विज्ञान के संस्थान (राष्ट्रीय महत्व का संस्थान), बेंगलुरु - 560 029**

**ರಾಷ್ಟ್ರೀಯ ಮಾನಸಿಕ ಆರೋಗ್ಯ ಮತ್ತು ನರ ವಿಜ್ಞಾನ ಸಂಸ್ಥೆ (ರಾಷ್ಟ್ರೀಯ ಪ್ರಾಮುಖ್ಯತಾ ಸಂಸ್ಥೆ), ಬೆಂಗಳೂರು - 560 029**

**DEPARTMENT OF NEUROMICROBIOLOGY**

NIMH/NMB/2021

20 September 2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Neetu.M from Dayananda Sagar University, has completed an internship training under the guidance of Dr. S.Nagarathna, Professor & Head in the Department of Neuromicrobiology, NIMHANS, Bengaluru, from 01.06.2021 to 30.07.2021. She has completed the training successfully.

I wish her all the best in her future scientific endeavors.

*Nagarathna S*  
Dr.S.Nagarathna 20/9/21,

Professor & Head

Dept. of Neuromicrobiology

Dr. Nagarathna. S  
डॉ। नागरत्ना. एस  
Professor & Head / प्राध्यापक और प्रमुख  
Department of Neuromicrobiology  
न्यूरोमैक्रोबायोलॉजी विभाग  
NIMHANS, Bengaluru-560 029



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## E-Certificate

This is to certify that  
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(Reg. No. BHI5050)

(Identity no AADHAAR NO: 6552 9709 5881)

has successfully completed 30 (THIRTY)

days "Online internship on RESEARCH

ASSOCIATE ROLE IN LIFE SCIENCES

(CELL AND MOLECULAR BIOLOGY)"

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29-06-2021 to 28-07-2021.

ONLINE TASKS	:	<u>78.5</u>	OUT OF 100
IMPLEMENTATION EFFORTS	:	<u>NIL</u>	OUT OF 20
ATTENDANCE & PARTICIPATION	:	<u>8.5</u>	OUT OF 15
ON-TIME COMPLETION	:	<u>8</u>	OUT OF 15
ONLINE VIVA	:	<u>44</u>	OUT OF 50
TOTAL MARKS (IN %)	:	<u>69.5</u>	
GRADE OBTAINED	:	<u>B</u>	
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A-Very good;  
B-Good;  
C-Satisfactory;  
D-Sufficient;  
E-Not-sufficient;  
U-Unfair.



*J. Sanyal*

DIRECTOR



**NATIONAL INSTITUTE OF MENTAL HEALTH AND NEURO SCIENCES**

**(Institute of National Importance), Bengaluru – 560 029**

राष्ट्रीय मानसिक स्वास्थ्य और तंत्रिका विज्ञान के संस्थान (राष्ट्रीय महत्व का संस्थान), बेंगलुरु - 560 029

ರಾಷ್ಟ್ರೀಯ ಮಾನಸಿಕ ಆರೋಗ್ಯ ಮತ್ತು ನರ ವಿಜ್ಞಾನ ಸಂಸ್ಥೆ (ರಾಷ್ಟ್ರೀಯ ಪ್ರಾಮುಖ್ಯತಾ ಸಂಸ್ಥೆ), ಬೆಂಗಳೂರು - 560 029

**DEPARTMENT OF NEUROMICROBIOLOGY**

NIMH/NMB/2021

20 September 2021

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Supriya Sudarshana from Dayananda Sagar University, has completed an internship training under the guidance of Dr. S. Nagarathna, Professor & Head in the Department of Neuromicrobiology, NIMHANS, Bengaluru, from 26.05.2021 to 26.07.2021. She has completed the training successfully.

I wish her all the best in her future scientific endeavors.

*Nags.*  
Dr. S. Nagarathna 20/9/21

Professor & Head

Dept. of Neuromicrobiology

Dr. Nagarathna. S  
डॉ। नागरत्ना. एस  
Professor & Head / प्राध्यापक और प्रमुख  
Department of Neuromicrobiology  
न्यूरोमैक्रोबायोलॉजी विभाग  
NIMHANS Bengaluru-560 029

Ref: Mylan/SPD-HR/2021/TR-02  
Date: 04<sup>th</sup> January 2021

**CERTIFICATE**

This is to certify that Ms. Sushma Rao. V, Bachelor of Science student of Dayananda Sagar University has successfully completed Industrial Training/Internship as per the schedule given by us from 22<sup>nd</sup> December 2020 to 04<sup>th</sup> January 2021 in our organization.

During her training, she has exposure in Quality department.

Her conduct during the tenure at our organization was good.

We wish her all the very best for her future endeavors.

**For Mylan Laboratories Limited.,  
(Sterile Products Division)**

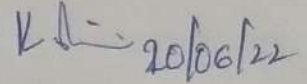
  
04/01/2021

**Chidanand Vasanth  
Deputy General Manager – HR**

## BONAFIDE CERTIFICATE

Certified that this dissertation work titled **Evaluation of the Ability of Sandalwood in Selection of its Host** is the bonafide work of Mr. Rahul Riyal (BAS20MBT021). This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

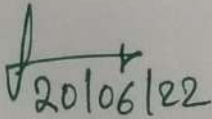
Date: 20/06/22

 20/06/22

Dr. Triveni K

Assistant Professor

Assistant Professor,  
Department of Life Sciences,  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
Kumaraswamy Layout,  
Bangalore - 560 078.

 20/06/22

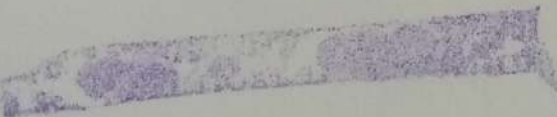
Dr. Sunil S More

The Dean, School of Basic and Applied Sciences

Dr. Sunil S More

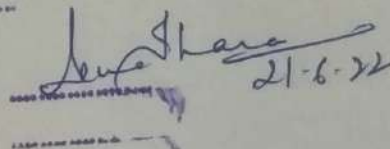
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.



VALUED  
EXAMINERS :

1)  
2)

 21-6-22



## Bonafide Certificate

Certified that this dissertation work titled- **Biosynthesis of silver nanoparticles using "Archas sapota L" leaf extracts, characterization, antioxidant and anticancer properties.** is the bonafide work of Ms Meghana Salimath (BAS20MBT010) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date : 18/06/2022

(Signature of the Guide)

Assistant Professor,

Department of Sciences,

School of Basic & Applied Sciences

Dayananda Sagar University,

Kumaraswamy Layout,

Bangalore - 560 078.

20/06/22

Signature of the Dean of the School With seal

Dr. Sunil S More

Professor & Dean

School of Basic & Applied Sciences,

Dayananda Sagar University,

K. S. Layout, Bengaluru-78.

24/06/22



Dayananda Sagar University,  
School of Basic & Applied Sciences  
Department of Biological Sciences,



Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 078.  
Phone: 08042161620 email:dean-sbas@dsu.edu.in

Ref.No.DSU/SBAS/002/2021-22

Dated: 30.01.2022

TO WHOMSOEVER IT MAY CONCERN

This is to inform that the following students of M.Sc II year Biotechnology (III semester) students would like to carry out project work in your esteem organization.

Sl.No	USN No	Name of the Candidates
1	BAS20MBT006	Kavya T R
2	BAS20MBT027	Shravani S

I hereby request you to provide an opportunity for carrying out the project for the above mentioned candidates, to fulfill the partial requirement for the award of Post Graduation Degree in Biotechnology.

With regards,

04/01/22

Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

Received

Kavya

[Kavya. T. R.]



**Dayananda Sagar University**  
**School of Basic & Applied Sciences**  
**Department of Biological Sciences,**

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 078.  
Phone: 08042161620 email:dean-sbas@dsu.edu.in



Ref.No.DSU/SBAS/003/2022-23

Dated:10.01.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Brinda Chandra Shekar, with USN BAS19BG0011, is a bonafide student of our University, studying in B.Sc. Biotechnology, Biochemistry & Genetics (V Semester) course of Dayananda Sagar University during the academic year 2021-22.

This letter has been issued at her request to apply for Internship Program at Kidwai, Bengaluru.

  
10/01/22

(Dr. Sunil S More)  
Dean,

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K.S. Layout, Bengaluru - 560 078..



Dayananda Sagar University  
School of Basic & Applied Sciences

Department of Biological Sciences,

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 078.

Phone: 08042161620 email:dean-sbas@dsu.edu.in



Ref.No.DSU/SBAS/003/2022-23

Dated:10.01.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Trishaala, with USN BAS19BG0065, is a bonafide student of our University, studying in B.Sc. Biotechnology, Biochemistry & Genetics (V Semester) course of Dayananda Sagar University during the academic year 2021-22.

This letter has been issued at her request to apply for Internship Program at Kidwai, Bengaluru.

*(Handwritten signature)*  
10/01/22

(Dr. Sunil S More)

Dean,

School of Basic & Applied Sciences

Dayananda Sagar University,

K.S. Layout, Bengaluru - 560 078..

Received

Trishaala  
10/1/22



Dayananda Sagar University  
School of Basic & Applied Sciences

Department of Biological Sciences,

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 078.

Phone: 08042161620 email:dean-sbas@dsu.edu.in



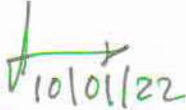
Ref.No.DSU/SBAS/002/2022-23

Dated:10.01.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Kusuma K, with USN BAS19BG0027, is a bonafide student of our University, studying in B.Sc. Biotechnology, Biochemistry & Genetics (V Semester) course of Dayananda Sagar University during the academic year 2021-22.

This letter has been issued at her request to apply for Internship Program at Kidwai, Bengaluru.

  
10/01/22

(Dr. Sunil S More)

Dean,

School of Basic & Applied Sciences,

Dayananda Sagar University,

K.S. Layout, Bengaluru - 560 078.

Received

Kusuma.K

10/01/2022



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.  
Phone: 08042161620 email: dean-sbas@dsu.edu.in



Ref.No.DSU/SBAS/001/2022-2023

dated.12.02.2022

To  
Manager,  
H.R Department,  
Sagar Hospitals,  
Kumaraswamy Layout, Banashankari 2nd Stage  
Bangalore-.560 078.

Sir,

As our students from B.Sc -Biotechnology, Biochemistry & Genetics VI semester (III Year), at Dayananda Sagar University, few of them are interested in gaining experience in your laboratory.

In this regard I permit our B.Sc -Biotechnology, Biochemistry & Genetics VI Semester (III Year) students of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory. The details of the students are mentioned below:-

1. M.D Saquib – BAS19BG0035 *Saquib 12/02/2022*
2. P Zaheer – BAS19BG0043 *Zaheer 12/2/22*
3. Verma Himanshu Bhupendra – BAS19BG0068 *Himanshu 12/2/22*

With kind regards.

*Dr. Sunil S More*  
12/02/22

Dr. Sunil S More  
Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.

Phone: 08042161620 email:dean-sbas@dsu.edu.in



Ref.No.DSU/SBAS/003/2022-2023

dated.30.05.2022

To  
Administrative Manager,  
Neuro Microbiology Department,  
Institute of NIMHANS,  
Bangalore-.560 029.

Sir,

*Student*

As our Ms. Shreevalli N Swamy from B.Sc – Biochemistry, Microbiology & Genetics VI semester (III Year), at Dayananda Sagar University student is interested in gaining experience in your laboratory.

In this regard I permit our B.Sc - Biochemistry, Microbiology & Genetics VI Semester (III Year) student of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory for a duration of one month (07.06.2022 to 07.07.2022), for internship in your Laboratory.

With kind regards.

*30/05/22*

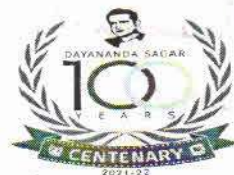
Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

*Shreevalli N Swamy*  
*30/05/22*



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,



Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.  
Phone: 08042161620 email:dean-sbas@dsu.edu.in

Ref.No.DSU/SBAS/004/2022-2023

dated.06.06.2022

To  
Head of the Department,  
Microbiology Department,  
Jayadeva Institute of Cardio  
Vascular Sciences & Research Centre,  
Bangalore-.560 069.

Sir,

As our students from B.Sc – Biochemistry, Microbiology & Genetics, & Biotechnology, Chemistry & Microbiology VI semester (III Year), at Dayananda Sagar University, three of our students are interested in gaining experience in your laboratory.

In this regard I permit our B.Sc - Biochemistry, Microbiology & Genetics, & Biotechnology, Chemistry & Microbiology VI Semester (III Year) students of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory for a duration of one month (13.06.2022 to 13.07.2022). The details of the students are mentioned below:-

Sl.No	USN No	Name of the Candidates
1	BAS19CM0001	Ananya N
2	BAS19CM0006	Gagana C Shekar
3	BAS19CM0009	Kavya Hegde
4	BAS19GB0033	Sanjana C

5. BAS19GB0020 LIKITH-M

With kind regards.

06/06/22

Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

Likith.M

Ananya N  
Gagana C Shekar  
[Gagana C. Shekar]  
Sanjana C  
[SANJANA.C]  
Kavya Hegde  
[KAVYA HEGDE]



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,



Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.  
Phone: 08042161620 email:dean-sbas@dsu.edu.in

Ref.No.DSU/SBAS/005/2022-2023

dated.06.06.2022

To  
Head of the Department,  
Microbiology Department,  
Kempe Gowda Institute of Medical Sciences,  
Bangalore-.560 070.

Sir,

As our students from B.Sc – Biochemistry, Microbiology & Genetics, & Biotechnology, Chemistry & Microbiology VI semester (III Year), at Dayananda Sagar University, three of our students are interested in gaining experience in your laboratory.

In this regard I permit our B.Sc - Biochemistry, Microbiology & Genetics, & Biotechnology, Chemistry & Microbiology VI Semester (III Year) students of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory for a duration of one month (13.06.2022 to 13.07.2022). The details of the students are mentioned below:-

Sl.No	USN No	Name of the Candidates
1	BAS19CM0001	Ananya N
2	BAS19CM0006	Gagana C Shekar
3	BAS19CM0009	Kavya Hegde
4	BAS19GB0020	Likith M
5	BAS19GB0033	Sanjana C

With kind regards.

06/06/22

Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-7E.

Ananya N  
(ANANYA-N)

Likith M  
(LIKITH-M)

Sanjana C  
(SANJANA-C)

Kavya Hegde  
(KAVYA HEGDE)

Gagana C Shekar  
(GAGANA-C)

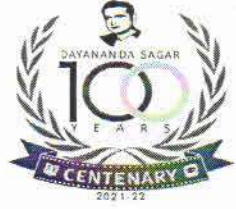


Dayananda Sagar University  
School of Basic & Applied Sciences

Department of Biological Sciences,

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 078.

Phone: 08042161620 email:dean-sbas@dsu.edu.in



Ref.No.DSU/SBAS/006/2022-23

Dated:09.06.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that the following B.Sc Biotechnology, Chemistry & Microbiology is a bonafide students of our University, studying in B.Sc. (V Semester) course of Dayananda Sagar University during the academic year 2022-2023. The details of the students are mentioned in the table below:-

Sl.No	USN No	Name of the Candidate
1	BAS20CM0004	CHAITANYA
2	BAS20CM0005	CHAYA
3	BAS20CM0006	SAATHWIKA
4	BAS20CM0007	EPSIBA
5	BAS20CM0009	JANHAVI
6	BAS20CM0016	NITHIN
7	BAS20CM0019	SUSHMA
8	BAS20CM0022	YUKTHI

Chaitanyapriya - 9/6/22  
Chaya - 9/6/22  
Saathwika - 9/6/22  
Epsiba - 9/6/22  
Janhavi - 9/6/22  
Nithin - 9/6/22  
Sushma - 9/6/22  
Yukthi - 9/6/22

This letter has been issued at their request to apply for Internship in your esteemed insitution.

09/06/22

(Dr. Sunil S More)

Dean,

School of Basic & Applied Sciences,

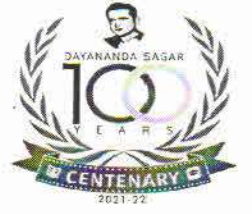
Dayananda Sagar University.

K.S. Layout, Bengaluru - 560 078.



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 078.  
Phone: 08042161620 email:dean-sbas@dsu.edu.in



Ref.No.DSU/SBAS/006/2022-23

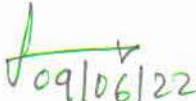
Dated:09.06.2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that the following B.Sc Biotechnology, Chemistry & Microbiology is a bonafide students of our University, studying in B.Sc. (V Semester) course of Dayananda Sagar University during the academic year 2022-2023. The details of the students are mentioned in the table below:-

Sl.No	USN No	Name of the Candidate
1	BAS20CM0004	CHAITANYA
2	BAS20CM0005	CHAYA
3	BAS20CM0006	SAATHWIKA
4	BAS20CM0007	EPSIBA
5	BAS20CM0009	JANHAVI
6	BAS20CM0016	NITHIN
7	BAS20CM0019	SUSHMA
8	BAS20CM0022	YUKTHI

This letter has been issued at their request to apply for training in your esteemed institution for 1Month (July 1<sup>st</sup> to July 30<sup>th</sup>).

  
(Dr. Sunil S More)

Dr. Sunil S More  
Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-7E.



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,



Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.  
Phone: 08042161620 email:dean-sbas@dsu.edu.in

Ref.No.DSU/SBAS/007/2022-2023

dated.13.06.2022

To  
Head of the Department,  
Microbiology Department,  
Sagar Hospitals,  
Kumaraswamy Layout,  
Bangalore-.560 078.

Sir,

As our students from B.Sc – Biochemistry, Microbiology & Genetics, & Biotechnology, Chemistry & Microbiology VI semester (III Year), at Dayananda Sagar University, three of our students are interested in gaining experience in your laboratory.

In this regard I permit our B.Sc - Biochemistry, Microbiology & Genetics, & Biotechnology, Chemistry & Microbiology VI Semester (III Year) students of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory for a duration of one month (13.06.2022 to 13.07.2022). The details of the students are mentioned below:-

Sl.No	USN No	Name of the Candidates
1	BAS19CM0001	Ananya N
2	BAS19CM0006	Gagana C Shekar
3	BAS19CM0009	Kavya Hegde
4	BAS19GB0033	Sanjana C

With kind regards.

13/06/22

Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,



Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.  
Phone: 08042161620 email:dean-sbas@dsu.edu.in

Ref.No.DSU/SBAS/010/2022-2023

dated.25.06.2022

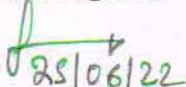
To  
Dr. S Prabhakara,  
H.O.D,  
Department of Genetics & Central Research Lab,  
Raja Rajeshwari Medical College & Hospital,  
Bangalore-.560 074.

Sir,

This is to certify that Ms. Rashmitha, bearing USN BAS20BG0030 is our student from B.Sc – Biotechnology, Biochemistry, & Genetics at Dayananda Sagar University, is interested in gaining experience in your laboratory.

In this regard I permit our B.Sc - Biochemistry, Biotechnology, & Genetics student of our School of Basic and Applied Sciences, Dayananda Sagar University to take up training in your laboratory for a duration of one month (01.07.2022 to 01.08.2022), in department of Genetics & Central Research Lab.

With kind regards.

  
25/06/22  
(Dr. Sunil S More)  
Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K.S. Layout, Bengaluru - 560 078..

Received  
25/06/2022



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,



Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.  
Phone: 08042161620 email:dean-sbas@dsu.edu.in

Ref.No.DSU/SBAS/012/2022-2023

dated.29.06.2022

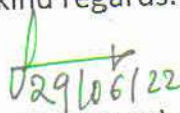
To  
Mr. Somdev Upadhyay,  
Lead – Corporate Sales & BD  
Niramai Health Analytix Innova Pearl,  
No.17, 5th Block, Koramangala  
Bangalore-.560 095.

Sir,

This is to certify that Ms. Ruchika D R, bearing USN BAS20CM0017 is our student from B.Sc – Biotechnology, Chemistry, & Microbiology at Dayananda Sagar University, is interested in gaining experience in your organisation.

In this regard I permit our B.Sc - Biotechnology, Chemistry, & Microbiology student of our School of Basic and Applied Sciences, Dayananda Sagar University to take up training in your organisation for a duration of two months (08.06.2022 to 08.08.2022), in your corporate Sales & BD, Niramai Health Analytix.

With kind regards.

  
(Dr. Sunil S More)  
Dean,

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K.S. Layout. Bengaluru - 560 078.

Received



29/6/2022



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,



Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.

Phone: 08042161772 email:dean-sbas@dsu.edu.in

Ref.No.DSU/SBAS/013/2022-2023

dated.30.06.2022

To  
Head of the Department,  
Microbiology Department,  
Jayadeva Institute of Cardio  
Vascular Sciences & Research Centre,  
Bangalore-.560 069.

Sir,

As our students from B.Sc – Biochemistry, Microbiology & Genetics, & Biotechnology, Biochemistry & Genetics VI semester (III Year), at Dayananda Sagar University, five of our students are interested in gaining experience in your laboratory.

In this regard I permit our B.Sc - Biochemistry, Microbiology & Genetics, & Biotechnology, Biochemistry & Genetics VI Semester (III Year) students of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory for a duration of **fifteen days** (15.07.2022 to 30.07.2022). The details of the students are mentioned below:-

Sl.No	USN No	Name of the Candidates
1	BAS19BG0013	Chandana N
2	BAS19BG0034	Maheshwari R
3	BAS19BG0038	Nandhini K
4	BAS19BG0056	Sahana R
5	BAS19GB0043	Varshitha K

Chandana N  
Maheshwari R  
Nandhini K  
Sahana R  
Varshitha K

With kind regards.

30/06/22

Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-72.



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.  
Phone: 08042161772 email:dean-sbas@dsu.edu.in



Ref.No.DSU/SBAS/013/2022-2023

dated.02.07.2022

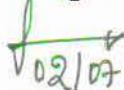
To  
Head of the Department,  
Microbiology Department,  
KIMS Hospital and Research Centre,  
K. R Road,  
Bangalore-.560 002.

Sir,  
As our students from B.Sc – Biotechnology, Chemistry & Microbiology V semester (III Year), at Dayananda Sagar University, two of our students are interested in gaining experience in your laboratory.

In this regard I permit our B.Sc - Biotechnology, Chemistry & Microbiology V Semester (III Year) students of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory for a duration of **fifteen days** (04.07.2022 to 20.07.2022). The details of the students are mentioned below:-

Sl.No	USN No	Name of the Candidates
1	BAS20CM0002	Ashwetha
2	BAS20CM0009	Janhavi


With kind regards.

  
02/07/22

Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

Ashwetha.T  
2/7/2022

  
2/7/2022



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,



Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.  
Phone: 08042161772 email:dean-sbas@dsu.edu.in

Ref.No.DSU/SBAS/015/2022-2023

dated.11.07.2022

To  
Head of the Department,  
Biochemistry Department,  
KIMS Hospital and Research Centre,  
V V Puram, K. R Road,  
Bangalore-.560 002.

Sir,  
As our students from B.Sc – Biotechnology, Biochemistry & Genetics V semester (III Year), at Dayananda Sagar University, two of our students are interested in gaining experience in your laboratory.

In this regard I permit our B.Sc - Biotechnology, Biochemistry & Genetics V Semester (III Year) students of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory for a duration of **fifteen days** (12.07.2022 to 26.07.2022). The details of the students are mentioned below:-

Sl.No	USN No	Name of the Candidates
1	BAS20BG0014	Sravya G
2	BAS20BG0029	Pruthvi Raj

With kind regards.



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.

Phone 08042161772 email: dean-sbas@dsu.edu.in



Ref.No.DSU/SBAS/016/2022-2023

dated.05.07.2022

To  
Manager,  
Pathology Department,  
Kidwai Memorial Institute of Oncology Cancer  
Research & Training Centre,  
Bangalore-.560 029.

Sir,

This is to certify that Mr. Achyut Katti, bearing USN BAS19GB0001 is our student from B.Sc – Biochemistry, Microbiology, & Genetics at Dayananda Sagar University, is interested in gaining experience in your laboratory.

In this regard I permit our B.Sc - Biochemistry, Microbiology, & Genetics student of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory for a duration of one month (15.07.2022 to 16.08.2022), for constituting cytogenetics, IHC, FISH & Flowcytometry Laboratories

With kind regards.

*105/07/22*

(Dr. Sunil S More)

Dean,

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K.S. Layout, Bengaluru - 560 078.,



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.

Phone: 08042161772 email:dean-sbas@dsu.edu.in



Ref.No.DSU/SBAS/017/2022-2023

dated.12.07.2022

To  
Head of the Department,  
Biochemistry Department,  
Indira Gandhi Institute of Child Health,  
Jayanagar,  
Bangalore-.560 029.

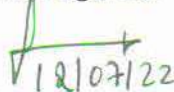
Sir,

As our students from B.Sc –Biochemistry, Microbiology & Genetics, & Biotechnology, Biochemistry & Genetics VI semester (III Year), at Dayananda Sagar University, three of our students are interested in gaining experience in your laboratory.

In this regard I permit our B.Sc - Biochemistry, Microbiology & Genetics, & Biotechnology, Biochemistry & Genetics VI Semester (III Year) students of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory for a duration of **one month** (13.07.2022 to 13.08.2022). The details of the students are mentioned below:-

Sl.No	USN No	Name of the Candidates
1	BAS19BG0056	Sahana R
2	BAS19BG0070	Vinay K J
3	BAS19GB0012	Ganesh K L

With kind regards.

  
12/07/22

Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.  
Phone: 08042161772 email:dean-sbas@dsu.edu.in



Ref.No.DSU/SBAS/017/2022-2023

dated.12.07.2022

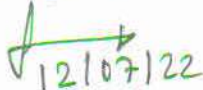
To  
Director,  
Biochemistry Department,  
Indira Gandhi Institute of Child Health,  
Jayanagar,  
Bangalore-.560 029.

Sir,

As our students from B.Sc –Biochemistry, Microbiology & Genetics, & Biotechnology, Biochemistry & Genetics VI semester (III Year), at Dayananda Sagar University, three of our students are interested in gaining experience in your laboratory. In this regard I permit our B.Sc - Biochemistry, Microbiology & Genetics, & Biotechnology, Biochemistry & Genetics VI Semester (III Year) students of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory for a duration of **one month** (13.07.2022 to 13.08.2022). The details of the students are mentioned below:-

Sl.No	USN No	Name of the Candidates
1	BAS19BG0056	Sahana R
2	BAS19BG0070	Vinay K J
3	BAS19GB0012	Ganesh K L

With kind regards.

  
12/07/22

Dr. Sunil S More  
Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.



Dayananda Sagar University  
School of Basic & Applied Sciences  
Department of Biological Sciences,

Shavige Malleswara Hills, Kumaraswamy Layout, Bengaluru-560 111.  
Phone: 08042161772 email:dean-sbas@dsu.edu.in



Ref.No.DSU/SBAS/017/2022-2023

dated.12.07.2022

To  
Director,  
Biochemistry Department,  
Indira Gandhi Institute of Child Health,  
Jayanagar,  
Bangalore-.560 029.

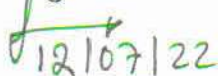
Sir,

As our students from B.Sc –Biochemistry, Microbiology & Genetics, & Biotechnology, Biochemistry & Genetics VI semester (III Year), at Dayananda Sagar University, three of our students are interested in gaining experience in your laboratory.

In this regard I permit our B.Sc - Biochemistry, Microbiology & Genetics, & Biotechnology, Biochemistry & Genetics VI Semester (III Year) students of our School of Basic and Applied Sciences, Dayananda Sagar University to work in your laboratory for a duration of **one month** (13.07.2022 to 13.08.2022). The details of the students are mentioned below:-

Sl.No	USN No	Name of the Candidates
1	BAS19BG0056	Sahana R
2	BAS19BG0070	Vinay K J
3	BAS19GB0012	Ganesh K L

With kind regards.

  
12/07/22

Dr. Sunil S More  
Professor & Dean  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-72.

BONAFIDE CERTIFICATE

Certified that this dissertation work titled Identification of key genes and their expression mechanism in the context of spermatogenesis is the bonafide work of Ms. Pooja Rawat BAS20MBT018 who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date: 18.06.2022

Signature of the Guide  
Assistant Professor,  
Department of Life Sciences,  
School of Basic & Applied Sciences,  
Dayananda Sagar University,  
Kumaraswamy Layout,  
Bangalore - 560 078.

20/06/22

Signature of the Dean of the School (With seal)

Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

21/06/22

VALUED EXAMINERS :

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_

DSU

Date: 16-June-2022

To Whom It May Concern

Certified that the project work entitled "Identification of key genes and regulatory networks: A mass scale *in Silico* analysis of differentially expressed genes in Lung Cancer" was carried out by Ms. Subhashree Das, [BAS20MBT029], a student of Dayananda Sagar University, Bengaluru, in partial fulfillment for the award of MSc Biotechnology, from January 07<sup>th</sup> 2022 to 12<sup>th</sup> June 2022. It is certified that she has completed the project satisfactorily.

*Kshitish*

Kshitish Acharya  
PhD

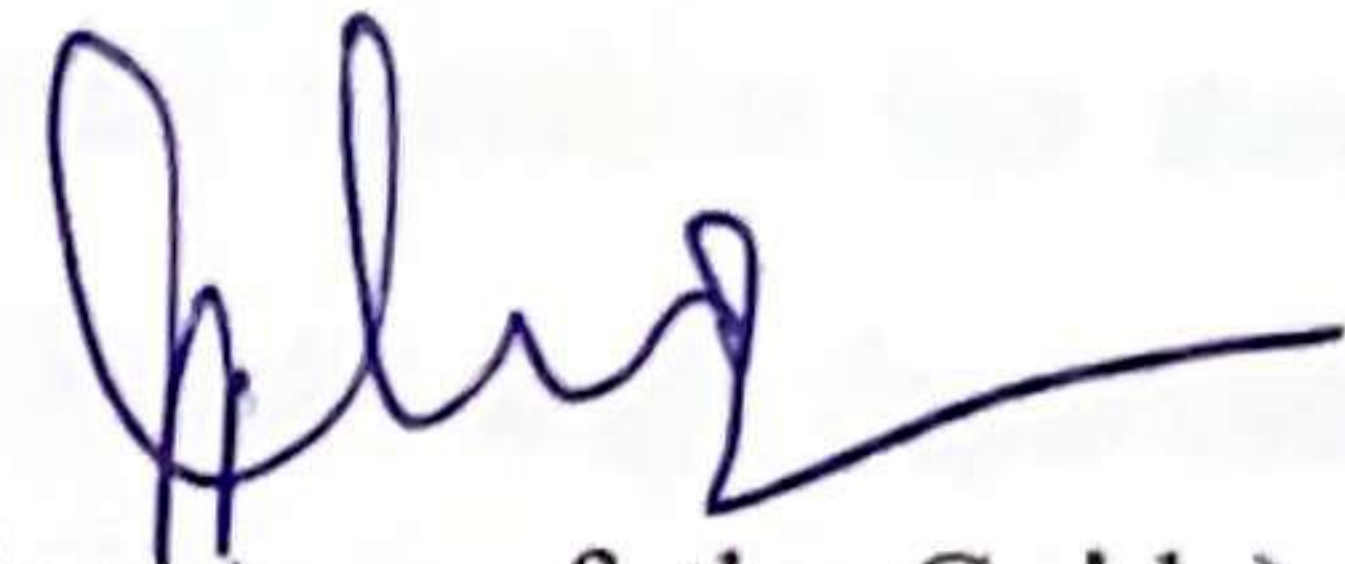


Founder Director

# BONAFIDE CERTIFICATE

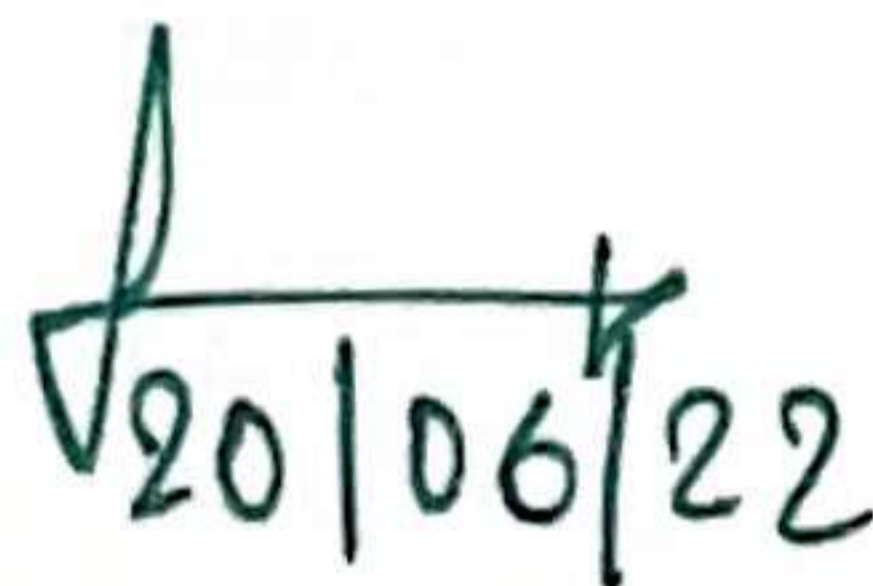
Certified that this dissertation work titled "IDENTIFICATION OF KEY GENES AND REGULATORY NETWORKS: A MASS SCALE IN SILICO ANALYSIS OF DIFFERENTIALLY EXPRESSED GENES IN LUNG CANCER" is the bonafide work of Ms. Subhashree Das (BAS20MBTO29) who carried out the work under my supervision. This is to further certify, that to the best of my knowledge the work reported herein does not form part of any other dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date: 18.06.2022



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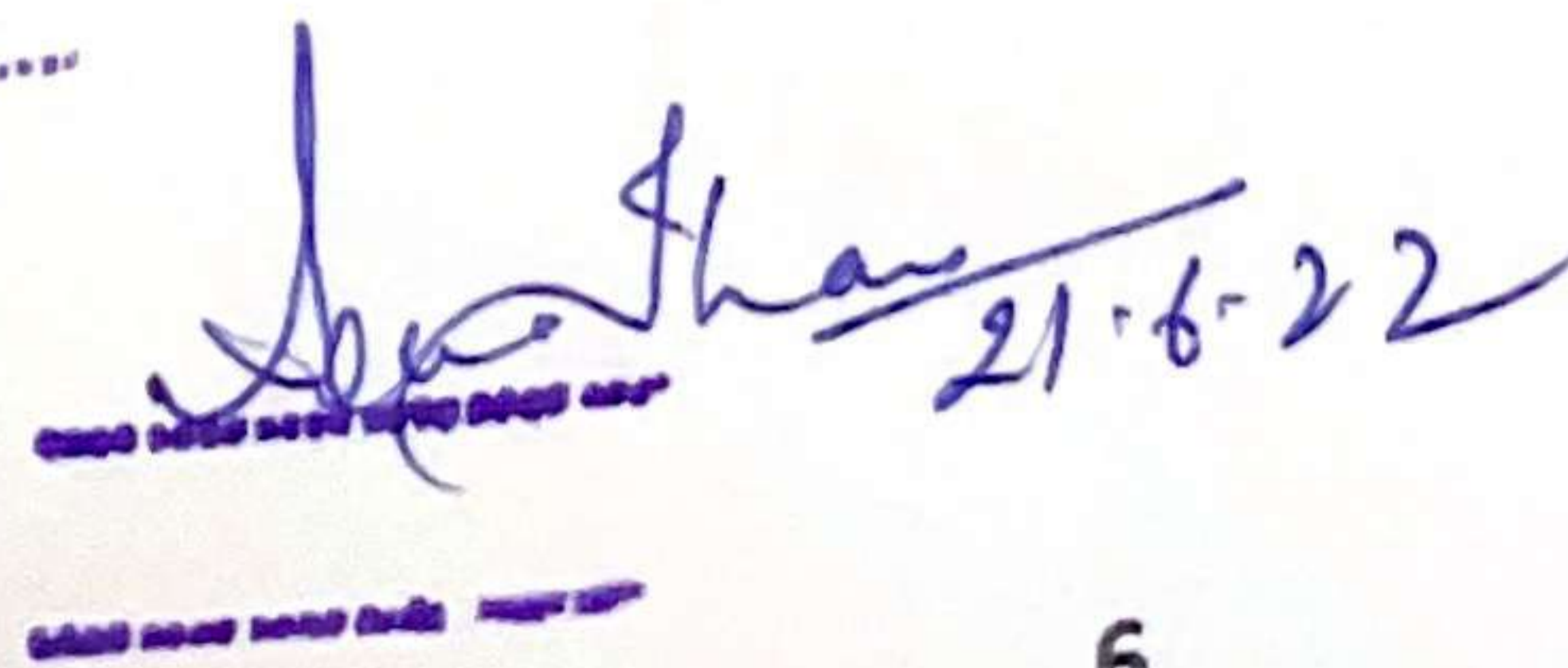
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