

SUB: INTERNSHIP COMPLETION LETTER

We are glade to inform you that Mr.V.Vishal Kumar from Kakatiya University, has successfully completed his internship at Aurore Life Sciences Private Limited R&D Centre from April, 2022 to August, 2022.

During his internship, he was exposed to the various activities in Research & Development. We found his extremely inquisitive and hard working. He was very much interested to learn the functions of our core division and willing to put his best efforts and get into the depth of the subject to understand it better.

His association with us was very fruitful and we wish him all the best in his future endeavours.

Authorised Signature.

For Aurore Life Sciences Private Limited Research & Development Centre

Aurore Life Sciences Pvt Ltd

Corporate Office: Plot # 68 & 69, 2nd Floor, Jubilee Heights, Beside Shilparamam, Madhapur, Hyderabad, Telangana 500081.

AURORE LIFE SCIENCES PRIVATE LIMITED Research & Development Centre, Shapur Nagar - 55, Hyderabad.





NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

WARANGAL, TELANGANA, INDIA, 506004 one: +91-870-2459191 | FAX: +91-870-2459547 Website:https://www.nitw.ac.in

CERTIFICATE

This is to certify that the dissertation work entitled SYNTHESIS OF TAMARIND SEED POLY SACCHARIDE BASED ZINC NANOPARTICLES, AND EVALUATION OF THEIR EFFECT ON ETHANOL FERMENTATION CAPACITYOF YEAST STRAIN ISOLATED FROM PALM WINE is a bonafide record of work carried ISOLATED FROM PALM WINE is a bonafide record of work carried out by "SILUVERU UDAY PAUL, with Roll No.18000S9009", submitted to the Department of Biotechnology, Kakatiya University, submitted to the Department of Biotechnology, Kakatiya University, award of the five-year Integrated Master of Science in Biotechnology, during the academic year 2021-2022.

Date:

Prof. SREENIVASA RAO PARCHA

Department of Biotechnology NIT Warangal.



TO WHOMSOEVER IT MAY CONCERN

This is to certify that, the thesis work entitled "PHENOTYPIC AND MOLECULAR SCREENING OF ADVANCED BREEDING LINES FOR GALLMIDGE RESISTANCE IN RICE (Oryza sativa.L.)" is submitted by Ms.V.ENUSHA bearing registered number 18000S9013 in partial fulfillment for the award of degree of Master of Science in Biotechnology to Kakatiya University Warangal, is a record of bonafide work carried by has under my supervision for a period of 4 Months from 4 Months from 5th April to 5th August 2022. The results embedded in this thesis have not been submitted to any other University or Institute for the award of any degree.

Dr.Y.Hari Scientist (Biotechnology) RARS, Warangal.

CERTIFICATE



Department of Biotechnology Kakatiya University, Warangal – 506009

This is to certify that Ms.P.Shilpa of Integrated M.Sc. Biotechnology has been carried out the project work embodied in the present dissertation entitled "TO EXAMINE NITRIC OXIDE'S SIGNALLING ROLE IN RESISTANCE TO PATHOGEN INTERACTION IN DIFFERENT TYPES OF TOMATO" under the supervision of Dr. B. Mallesham Department of Biotechnology Agri Biotech foundation Hyderabad, in partial fulfilment for the award of Integrated M.Sc. Biotechnology.

Signature of the Head

DEPARTMENT OF BIOTECHNOLOGY NATIONAL INSTITUTE OF TECHNOLOGY

WARANGAL-506004



CERTIFICATE

This to certify that the work presented in the dissertation entitled "Production and Purification of L- Glutaminase from Bacillus Licheniformis" submitted to Kakatiya University in the partial fulfillment of requirement for the award Master of Science in Biotechnology during the year 2017-2019 has been carried out by K. NAGA MALLIKA (H.T NO.18000S1605) during the period of June 2018 to July 2018 under the guidance of Dr. R. Satish Babu, Associate professor, Department of Biotechnology at National Institute of Technology, Warangal.

Project Guide

(Dr. R. Satish Babu)
Associate professor

Associate professor Dr. R. SATISH BABU Associate Professor

Department. of Biotechnology NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL-506 004. TS, INDIA

CERTIFICATE



Department of Biotechnology Kakatiya University, Waranga1-506009

This is to certify That Mr. Neelam Shantikumar student of Integrated M.Sc. Biotechnology has been carried out the project work embodied in the present dissertation entitled "Validation of High-Performance Liquid Chromatography Mass Spectrometric Method in Negative Ion mode for the Estimation of Monomethyl fumarate in Human Plasma Using Monomethyl fumarate D3 as Internal Standard". under the supervision of. Dr. Chirag Khatri, Head of Aurora Life Sciences in partial fulfilment for the award of Integrated M.Sc. Biotechnology.

Approved by

External Examiner

Head of the Department



NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

WARANGAL, TELANGANA, INDIA, 506004

one: +91-870-2459191 | FAX: +91-870-2459547 Website: https://www.nitw.ac.in

CERTIFICATE

This is to certify that the dissertation work entitled "IN- VITRO REGENRATION STUDIES ON PTEROCARPUS SANTALINUS.L (RED SANDAL)" is a bonafide record of work carried out by BURRA PRAVALIKA with Roll No.18000S9023, submitted to the Department of Biotechnology, Kakatiya University, Telangana, India", for the partial fulfillment of the requirements for the award of the Five-years Integrated Masters of Science in Biotechnology, during the academic year 2021-2022.

Date:16-08-2022

Assistant Professor,

Department of Biotechnology NIT, Warangal



NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

WARANGAL, TELANGANA, INDIA, 506004

one: +91-870-2459191 | FAX: +91-870-2459547 Website: https://www.nitw.ac.in

CERTIFICATE

This is to certify that the dissertation work entitled "IN-VITRO MICROPROPAGATION OF SOLANUM SURATTENSE BRINJAL) A MEDICINAL PLANT" is a bonafide record of work carried out by "MAMIDALA SOUMYA with Roll No.18000S9028," submitted to the Department of Biotechnology, Kakatiya University, Telangana, India", for the partial fulfillment of the requirements for the award of the Five-years Integrated Masters of Science in Biotechnology, during the academic year 2021-2022.

Date: [7-/08/2022

Dr. RATHNAPRABHA Assistant Professor,

Department of Biotechnology NIT, Warangal





CS & Hospital for Genetic Diseases Unveiling the future

Dr. A. Venkateshwari

CERTIFICATE

31/2/18

This is to certify that the work presented in this dissertation entitled "ROLE OF KCNJ11 (rs5215) GENE POLYMORPHISM IN TYPE 1 DIABETES" submitted for the partial fulfillment of the award in M.Sc Biotechnology, Department of Biotechnology, Kakatiya University, Warangal has been carried out by Ms. Y.Ushakiran under the supervision of Dr. G. Shilpa Reddy from April - July, 2018. This report incorporates original results of her study and it has not formed the basis of any degree or diploma in part or full prior to this date.

Shilpa Reddy Dr. G. Shilpa Reddy Supervisor

Dr. A. Venkateshwari Director (I/C)



CERTIFICATE BY THE SUPERVISOR

This is to certify that Mr. Sandeep Kothi with Roll number, 18000S9018 from the Kakatiya University, Warangal has worked as an intern as part of his M.Sc. in Biotechnology From March 25th, 2022 to Aug 16th, 2022. He worked on a research project titled "Molecular cloning, expression, and purification of a *Leishmania* profilin deletion mutant" under the guidance of Dr. C M Gupta, Distinguished Professor and Infosys Chair, IBAB.

Date:

Place: Bengaluru

Prof. H S Subramanya

Director, IBAB





NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL WARANGAL, TELANGANA, INDIA, 506004

Phone: +91-870-2459191 | FAX: +91-870-2459547 | Website: https://www.nitw.ac.in

CERTIFICATE

This is to certify that the dissertation work entitled "OPTIMIZATION OF BIOMASS PRETREATMENT FOR IMPROVING ENZYMATIC SACCHARIFICATION" is a bonafide record of work carried out by "Mr. KOTHI VAMSHI, with Roll No.18000S9024", submitted to the Department of Biotechnology, Kakatiya University, Warangal, Telangana, India", carried out under my supervision from 15th March to August 15th, 2022, for the partial fulfillment of the requirements for the award of the five-year integrated degree of Master of Science in Biotechnology, during the academic year 2017-2022.

Date:

Prof. SREENIVASA RAO PARCHA

Department of Biotechnology

NIT Warangal.





NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

WARANGAL, TELANGANA, INDIA, 506004

one: +91-870-2459191 | FAX: +91-870-2459547 Website: https://www.nitw.ac.in

CERTIFICATE

This is to certify that the dissertation work entitled "IN-VITRO STUDIES ON MELOTHRIA SCABRA (CUCAMELON)" is a bonafide record of work carried out by "SHANIGARAPU SAISREE with Roll No.18000S9020," submitted to the Department of Biotechnology, Kakatiya University, Telangana, India", for the partial fulfillment of the requirements for the award of the 5 years Integrated Master of Science in Biotechnology, during the academic year 2021-2022.

Date: /08/2022

Dr. RATHNAPRABHA Assistant Professor,

Department of Biotechnology

NIT, Warangal



GVK BIOSCIENCES PVT LTD

HYDARABAD, TELANGANA, INDIA,500029.

CERTIFICATE

This is to certify that Mr. G.SRIKANTH of M.Sc. Biotechnology has been carried out the project work embodied in the present dissertation entitled "DEVELOPMENT OF EFFECTIVE IN VITRO PROPAGATION PROTOCOLS FOR 2 SPECIES OF

BAMBOO" was carried out under the supervision of Dr.G.KALYAN CHAKRAVARTHYI, GVK BIOSCIENCES PVT LTD, HYDERABAD and that work has not been submitted for any degree or diploma of any other University or Institute during the academic year 2021-2022

Gil chiby



REGIONAL AGRICULTURAL RESEARCH STATION (RARS) PJTSAU-WARANGAL-506 007, TELANGANA, INDIA

TO WHOMS OEVER IT MAY CONCERN

This is to certify that, the thesis work entitled as "MOLECULAR SCREENING OF BACKCROSS DERIVED LINES FOR BLAST RESISTANCE IN WGL-14, A POPULAR RICE VARIETY" is submitted by Ms L.SUMA bearing registered number 18000S1601 in partial fulfillment for the award of degree of M.Sc Biotechnology in Kakatiya University Warangal, is a record of bonafide work carried by her under my supervision for a period of 45 days during 1" June to 15th July 2018. The results embedded in this thesis have not been submitted to any other University or Institute for the award of any degree.

Dr.Y.Hari

Scientist (Biotechnology)

RARS, Warangal.

Scientist (Blum dindings)

Regice agriculture trongers namer

Verlande Sie unt



NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL – 505004, TELANGANA, INDIA

CERTIFICATE

This is to certify that, the thesis work entitled "OPTIMIZATION AND PRODUCTION OF CELLULASE ENZYMES FROM ALKALOPHILIC AND THERMOPHILIC STRAIN ASPERGILLUS FUMIGATUS UNDER SUBMERGED FERMENTATION" issubmitted by Mr. S. HARISHbearing registered number 18000S1628 in partial fulfillment for the award of degree of M.Sc Biotechnology in Kakatiya University Warangal, is a record of bonafide work carried by her under my supervision for a period of 45 days during 1st June to 15th July 2018. The results embedded in this thesis have not been submitted to any other University or Institute for the award of any degree.

Dr. K. Narasimhulu

Asst.Professor (Biotechnology)

NIT, Warangal.

Dr.K. NARASIMHULU
Associate Professor
Department of Biotechnology
NIT Warangal-506004, TS, India

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL – 506004



CERTIFICATE

This is to certify that the work presented in the dissertation entitled "Preparation and Characterization of a novel composite scaffold using Cellulose derivative for bone tissue engineering applications" submitted to Kakatiya University in the partial fulfilment of requirement for the award Master of Science in Biotechnology during the year 2017 - 2019 has been carried out by Malothu Sinduja (H.T no.18000S1610) during the period of June 2018 to July 2018 under the guidance of Dr. P. Sreenivasa Rao, Associate professor, Department of Biotechnology, National Institute of Technology, Warangal.

Project Guide

Dr. P. Sreenivasa Rao

Associate Professor

Department of Biotechnology

NIT, Warangal Dr. Parcha Sreenivasa Rac

Associate Professor Department of Biotechnology NIT, Warangal, India



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

CENTRE FOR BIOTECHNOLOGY, INSTITUTE OF SCIENCE & TECHNOLOGY Kukatpally, Hyderabad-500 085 (T.S.) Tele / Fax : 040-23156129

Dr. A. UMA
Associate Professor

CERTIFICATE

This is to certify that the dissertation titled "PHYTOCHEMICAL AND ANTIDIABETIC PROPERTIES OF COMMERCIALLY AVAILABLE THREE MILLET VARIETIES" submitted by MS. PANGOTH MOUNIKA, bearing Roll No.18000S9017 to the DEPARTMENT OF BIOTECHNOLOGY, KAKATIYA UNIVERSITY, WARANGAL, in the partial fulfilment of the requirement for the award of degree in 5 YEARS INTEGRATED M.SC BIOTECHNOLOGY as a bonafide work done under the supervision of Dr A. UMA, Associate professor, CBT, IST, JNTUH, KUKATPALLY, HYDERABAD.

It is further certified that the present work or any part thereof has not been submitted elsewhere for any other degree or diploma

Place: HYDERABAD

Date:

(Dr. A. UMA)

Associate Professor

Dr A. UMA M.Tech., Ph.D.

Associate Professor
Centre for Biotechnology
Institute of Science and Technology

J.N.T. University Hyderabad,
Kukatpally, Hyderabad-85, Telangana State

PROFESSOR JAYASHANKAR TELANGANA STATE AGRICULTURAL UNIVERSITY

Dr. P. JAGAN MOHAN RAO Associate Director of Research CENTRAL TELANGANA ZONE



Regional Agricultural Research Station
WARANGAL - 506 007
TELANGANA STATE

Phone: 0870-2975223 Mobile: 9989625223

E-mail:adrrars_wgl@yahoo.co.in

CERTIFICATE

Date:01-04-2019

I Certify that, the dissertation work entitled "Identification and Characterization of a Novel Gene (GhZFP) Involved in Salt Stress Tolerance and Fungal Disease Resistance in Gossypium hirsutum" is submitted by V. Supriya bearing registered number 18000S1611 in partial fulfillment for a period of 45 days during 1st June -15th July 2018 for the award of Degree of Master of Science in Biotechnology to Kakatiya University, is a bonafied work and may be placed before the examination board for their consideration.

Associate Director of Research
R.A.R.S., Warangal
Associate Director of Research
R.A.R.S. CTZ. Warangal.

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL – 506004



CERTIFICATE

This is to certify that the work presented in the dissertation entitled "Preparation and Characterization of a novel composite scaffold using Cellulose derivative for bone tissue engineering applications" submitted to Kakatiya University in the partial fulfilment of requirement for the award Master of Science in Biotechnology during the year 2017 - 2019 has been carried out by Gopu Akhila (H.T no.18000S1604) during the period of June 2018 to July 2018 under the guidance of Dr. P. Sreenivasa Rao, Associate professor, Department of Biotechnology, National Institute of Technology, Warangal.

Project Guide

Dr. P. Sreenivasa Rao

Associate Professor

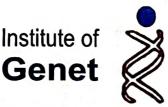
Department of Biotechnology

NIT, Warangal

Dr. Parcha Sreenivasa K

Associate Professor Department of Biotechnology NIT, Warangal, india





CS & Hospital for Genetic Diseases Unveiling the future

Dr. A. Venkateshwari Director (I/C)

CERTIFICATE

This is to certify that the work presented in the dissertation entitled of "Association of ACE I/D rs4646994 Gene Polymorphism with Diabetic Nephropathy" submitted for the partial fulfillment in Msc. Biotechnology has been carried out by Voruganti Priyanka under the super vision of Dr. M.L.N Deepika during June to July 2018 at Institute of Genetics & Hospital for Genetic Diseases Osmania University, Hyderabad. This report incorporates original result for her study and it has found not formed the basis of any degree or diploma in the part of full prior to this date.

Supervisor

Institute of Genetics & Hospital for Genetic Diseases Osmania University Begumpet, Hyderabad - 16.

Dr.A. Venkateswari

Director

DIRECTOR Institute of Genetics & Hospital for Genetic Diseases Osmania University Begumpet Hyderabad 500 816







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Dr. A. Venkateshwari

28/7/2018

CERTIFICATE

This is to certify that the work presented in the dissertation entitled of "Association of FUT2 rs602662 G>A Gene Polymorphism with Hypothyroidism" submitted for the partial fulfillment of the M.sc course in Biotechnology has been carried out by Miss. Harika Kokkonda under the super vision of Dr. M.L.N Deepika during June to July 2018 at Institute of Genetics & Hospital for Genetic Diseases Osmania University, Hyderabad. This report incorporates original result for her study and it has found not formed the basis of any degree or diploma in the part of full prior to this date.

Mudeepika. Dr. M.L.N Deepika

Supervisor
Institute of Genetics &
Hospital for Genetic Diseases
Osmania University
Begumpet, Hyderabad - 16.

A. Centraleduran

Dr.A.Venkateswari Director(I/C)

DIRECTOR
Institute of Genetice &
Hospital for Genetic Diseases
Osmania University
Becumper Hyderabad 500 616



PROJECT CERTIFICATE

Warangal has worked as an intern as a part of his MSc in Biotechnology from 15th April till 8th August, 2022. He worked on research project titled "Effect of Annona reticulata on Human lung malignant cell line A-549" under my guidance.

Dr M Madhukar Rao,

Senior Director, Analytical GVK Biosciences Pvt Ltd, Hyderabad



Department of Genetics Osmania University Hyderabad - 500 007 Phone (Off) 91-27682335 Fax: 91- 40 - 27095178

E-mail: anupalligenetics@gmail.com

Date: 20-03-2019

Certificate

This is to certify that the work presented in this dissertation, entitled "Cytotoxic Activity of Acalypha Indica. L, Leaf Extract on Breast Cancer Cell Lines (MCF-7)" has been carried out by PETTEM SAI PRIYANKA (HT NO: 18000S1632) Under my supervision and guidance in Dept of Genetics and Biotechnology, Osmania university, Hyderabad for the Degree of Master in Biotechnology (Biotechnology, Genetics and Chemistry) to Kakatiya University, Warangal and it has not been submitted in part or in whole for any degree or diploma of any other university

(Prof. A. Roja Rani)

Dr. ANUPALLI ROJA RANI
Professor
Department of Genetics
Osmania University,
Hyderabad-500 007. INDIA



13th August 2022

TO WHOM IT MAY CONCERN

This is to certify that Mr. Kurimindla Pawan, with roll number, 18000S9026 from the Kakatiya University, Warangal has worked as an intern as part of his MSc in Biotechnology from 25th March 2022 till 13th August, 2022. He worked on a research project titled, "Molecular Cloning, Expression, and Purification of Genes Important for the Non-Obstructive Azoospermia Condition" under my guidance.

Dr. Kshitish K Acharya Professor IBAB

RIAIGALORE 6



PROJECT CERTIFICATE

This is certified that **Mr Jamalpuram Kishore**, with roll number 18000S9027 from Kakatiya University, Warangal has worked as an intern as a part of his MSc in Biotechnology from 15th April till 13th August, 2022. He worked on research titled, "EXPRESSION AND PURIFICATION OF GST GENE FROM PHLEBOTOMUS ARGENTIPES IN E. Coli EXPRESSION SYSTEM" under my guidance.

We wish him all the success in his future endeavours.

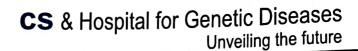
K M V Narayan Rao,

Senior Director, Analytical

GVK Biosciences Pvt Ltd, Hyderabad







Dr. A. Venkateshwari

31/7/18

CERTIFICATE

This is to certify that the work presented in this dissertation entitled "IMPLICATION OF KCNJ11 (rs5215) GENE POLYMORPHISM IN NEONATAL DIABETES" submitted for the partial fulfillment of the award in M.Sc Biotechnology, Department of Biotechnology, Kakatiya University, Warangal has been carried out by Ms. S. Sandhya Rani under the supervision of Dr. G. Shilpa Reddy from April - July, 2018. This report incorporates original results of her study and it has not formed the basis of any degree or diploma in part or full prior to this date.

Dr. G. Shilpa Reddy// Supervisor

Dr. A . Venkateshwari Director (I/C)

VIRUS RESEARCH AND DIAGNOSTIC LABORATORY (ICMR/DHR), DEPARTMENT OF MICROBIOLOGY, RANGARAYA MEDICAL COLLEGE, KAKINADA, ANDHRA PRADESH

CERTIFICATE

This is to certify that Ms. V.S.V.Vaishnavi worked on a project entitled "COVID-19 Seroprevalence in Paediatric Population of East Godavari District" for the fulfillment of her dissertation from the month of February 2022 to July 2022 under my supervision.

Date: 06-08-2022

RINC ACHINADA PROPERTY AND ACT AND ACT

Dr. D.S Murty

ASSOCIATE PROFESSOR & PI
Dept. of Microbiology,
Rangaraya Medical College TIGATOR
Kakinada, AP.

PRINCIPAL INVESTIGATION

RESOURCE & DIAGNOSTIC LABORATO

ARTIS RESOURCE OF MICROBIOLOGY

Department of Microbiology

RANGE KAKINADA-533001



Department of Plant Sciences, School of Life Sciences, University of Hyderabad

(A Central University established by the Act of Parliament & India's Institute of Eminence)

Hyderabad 500 046, Telangana.

CERTIFICATE

This is to certify that this dissertation entitled "Isolation, Cloning and characterization of Plasmodesmatal Labelling protein (PDLP) from Arabidopsis thaliana columbina-0 and localization studies through Confocal laser scanning Microscopy" submitted by Veenavanka Malavika in partial requirement of the fulfilment for the award of degree of Master of Science in Biotechnology of the Kakatiya University is based on the results of the studies carried out by her under the guidance and supervision of Dr. Rahul Kumar, Assistant Professor, Department of plant sciences, School of life sciences, University of Hyderabad, Telangana, during March 2022 to August 2022.

t is further certified that this dissertation or any other part thereof has not been submitted elsewhere for any degree or diploma or similar title.

Head of the Department

(Prof. Rajagopal Subramanyan) HEAD

Dept. of Plant Sciences
School of Life Sciences
University of Hyderabad
Hyderabad-500 046, India.

Q. Supervisor

(Dr.Rahul Kumar)
Dr. RAHUL KUMAR
Assistant Professor
Dept. of Plant Sciences
School of Life Sciences
University of Hyderabad
Hyderabad-500 046, India



SRI SHIVANI COLLEGE OF PHARMACY

(Approved by AICTE & PCI, New Delhi, Rec. by Govt. of T.S. & Affiliated to Kakatiya University, Warangal.)
D.No. 22-7-96/1, Near Doctor's Colony, Mulugu Road, WARANGAL - 506 007.

CERTIFICATE

This is to certify that the dissertation work entitled "To study the prevalence of

Nontuberculous mycobacterial pulmonary Infections in the community" submitted to Kakatiya university in partial fulfillment of the requirements for the award of master of science in Biotechnology during the year 2017-2019, is a bonafide work carried out by MD.Afreen begum during the period of 28th may 2018 to 30th July 2018 under the guidance of Dr. MALATHI JOJULA Dept. of microbiology Sri Shivani College of Pharmacy.

Dr. Malathi Jojula

Head of the Department

WARANGA

Sponsored by SRI SHIVANI EDUCATION SOCIETY, WARANGAL.