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Cert./2021/06/332

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13th JULY, 2021

CERTIFICATE

This is to certify that the work entitled "In vitro STUDY OF THE ANTI METASTATIC ACTIVITY OF QUERCETIN IN HUMAN BREAST CANCER CELLS AND ROLE OF NOTCH SIGNALLING" is a bonafide project work done by FATHIMA SAJMI., student of AL-Ameen College, Edathala (Affiliated to MG University) in partial fulfilment of Bachelors Degree in Biotechnology.

Under the guidance and supervision



Dr. RAJESH RAM DIRECTOR

R&D IN BIOTECHNOLOGY - TECHNOLOGY TRANSFER - CONTRACT RESEARCH



Al-Ameen COLLEGE

EDATHALA, ALUVA-683 561

AIDED INSTITUTION-RE ACCREDITED BY NAAC WITH A GRADE (CGPA-3.15)
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Minority Educational Institution covered under Article 30 of the Constitution of India.

E-mail: alameencollege@gmail.com Website: www.alameencollege.org

Date: 12th July, 2021

CERTIFICATE

This is to certify that the dissertation entitled "INVITRO ANTIBACTERIAL AND ANDIOXIDANT STUDY OF LAC FROM LACCIFER LACCA AND ITS BIOACTIVE COMPOUND AND FUNCTIONAL GROUP ANALYSIS " submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the requirements for the award of the Degree of Bachelor of Science in Biotechnology, is a bonafide record of the original work done by Ms MEHANAS MN (Reg. no: 180021046908) under the supervision and guidance of Ms ALPHY NISA STEAPHEN, Asst. Professor, Dept. Of Biotechnology, AL-Ameen College, Edathala for the period of 3 months (November 1st – January 31st). The work presented here is the original and has not been submitted so far in part of fulfilment for any other degree or diploma of any other university/institutions.

PRINCIPAL

Dr. Cini Kurian

Principal

Al Ameen College, EDATHALA



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Date: 12th July, 2021

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ANDIOXIDANT STUDY OF LAC FROM LACCIFER LACCA AND ITS BIOACTIVE COMPOUND AND FUNCTIONAL GROUP ANALYSIS " submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the requirements for the award of the Degree of Bachelor of Science in Biotechnology, is a bonafide record of the original work done by Mr MUHAMMED ZALMAN T M (Reg. no: 1800210468909) under the supervision and guidance of Ms ALPHY NISA STEAPHEN, Asst. Professor, Dept. Of Biotechnology, AL-Ameen College, Edathala for the period of 3 months (November 1st – January 31st). The work presented here is the original and has not been submitted so far in part of fulfilment for any other degree or diploma of any other university/institutions.

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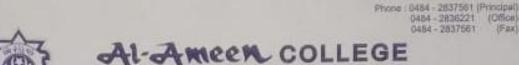
Date: 12th July, 2021

CERTIFICATE

This is to certify that the dissertation entitled "PHYTOCHEMICAL ANALYSIS AND INVITRO ANTIOXIDANT AND ANTIMICROBIAL ACTIVITY OF WITHANIA SOMNIFERA (ASHWAGANDHA) ROOT EXTRACT " submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the requirements for the award of the Degree of Bachelor of Science in Biotechnology, is a bonafide record of the original work done by Mr NIMESH A B (Reg. no: 180021046912) under the supervision and guidance of Ms ALPHY NISA STEAPHEN, Asst. Professor, Dept. Of Biotechnology, AL-Ameen College, Edathala for the period of 3 months (November 1st – January 31st). The work presented here is the original and has not been submitted so far in part of fulfilment for any other degree or diploma of any other university/institutions.

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Date: July 12th 2021

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CERTIFICATE

This is to certify that the dissertation entitled "Green Synthesis of Zinc Oxide Nanoparticles Using Azadirachta Indica Leaf Extract" submitted to the Mahatma Gandhi University, Kottayam in partial fulfilment of the requirements for the award of the degree of Bachelor of Science in Biotechnology is a record of original research work done by Mukhila M (Reg. No: 180021046910), Al Ameen College, Edathala for the period of 3 months (November 1" - January 31") under the supervision and guidance of Ms. Rahimal Ramesh, Head of the Department, AL Ameen College, Edathala, The work presented here is original and has not been submitted so far in part of full for any other degree or diploma of any other university/institution.



PRINCIPAL

Dr. Cini Kurian Principal Al-Ameen contege thathma



CERTIFICATE

This is to certify that the dissertation entitled "Isolation and molecular identification of Plant Growth Promoting Rhizobacteria (PGPR) associated with orchid roots and evaluation of microbial production of auxin" is a bonafide record of the original research work done by Ms. Rizwana K N, Al-Ameen College, Edathala partial fulfillment of the requirement for the award of 'Degree of Bachelor of Science in Biotechnology' during the period of her study in the Department of Biotechnology, under my direct supervision & guidance.



South Kalamaserry

15/03/2021

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Date: July 12th 2021

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EDATHALA P.O., ALUVA -683564

Date: 10 / 06 | 2020

CERTIFICATE

This is to certify that the dissertation entitled "MOLECULAR INDENTIFICATION OF ALKALINE PROTEASE GENE PRODUCING BACTERIA FROM SOIL" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of requirement for the award of the degree of Bachelor of Science in Biotechnology, is a bonafied record of the original work done by Ms.FATHIMA MAHIN Reg.no. 160021050161 under the supervision and guidance of Dr.K S RISHAD, Unibiosis Biotech Research Lab during the period of December 2018 to March 2019.

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Head of the Department: Department of Biotechnology Al-Ameen College, Edathala, Aluva - 683561

Submitted to the external examiner for viva voce on 10/26/2020

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Date: July 12th 2021

CERTIFICATE

This is to certify that the dissertation titled "REMOVAL OF POLYETHYLENE BY SOIL MICROORGANISM AS A SOLUTION FOR PLASTIC LITTER POLLUTION" submitted to Mahatma Gandhi University, Kottayam in partial fulfillment of requirement for the award of the Degree of Bachelor of Science in Biotechnology, is a bonafide record of the original work done by MS SANGEETHA SATHEESH Reg No: 180021046921 under the supervision and guidance of Dr DHANYA V, Dept. Of Biotechnology, AL-Ameen College, Edathala during the period of 3 months (November 1st – January 31st). The work presented here is the original and has not been submitted so far in part of full for any other degree or diploma of any other university/institutions.

PRINCIPAL



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Date:

CERTIFICATE

certify that the dissertation titled " PHYSICOCHEMICAL AND BACTERIOLOGICAL ANALYSIS OF THE WATER SAMPLE TAKEN FROM PERIYAR RIVER DURING THE OUTBREAK OF COVID-19 " submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of requirement for the award of the Degree of Bachelor of Science in Biotechnology, is a bonafide record of the original work done by Ms KRISHNAPRIYA PJ (Register No: 18002146907) under the supervision and guidance of Ms SANOOJA M S, Department Of Biotechnology, AL-Ameen College, Edathala during the period of 3 months (November 1st - January 31st). The work presented here is original and has not been submitted so far in part of full for any other degree or diploma of any other university/institutions. Department of Biotechnology Al-Ameen College, Edathala

Head of the Department:

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Internal Guide:

Submitted to the external examiner for viva voice on:

Internal Examiner:



AL-AMEEN COLLEGE,EDATHALA (Affiliated to Mahatma Gandhi University,Kottayam) Edathala P.O, Aluva,683564

Date: 1.2. 16/2021

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WITH ORCHID ROOTS AND EVALUATION OF MICROBIAL AUXIN PRODUCTION" submitted to Mahatma Gandhi University, Kottayam, in partial fulfillment of requirement for the award of the Degree of Bachelor of Science in Biotechnology, is a bonafide record of the original work done by Ms. NEEMA JOSE, Reg. No. 180021046911 under the supervision and guidance of Dr. K S Rishad, the supervising guide, Unibiosys Biotech Research Labs, Kalamaserry during the period of December 2020 to January 2021.

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Head of the Department

Internal Guide

Submitted to the external examiner for viva voce on.....

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12/6/2021

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This is to certify that the dissertation titled "REMOVAL OF POLYETHYLENE BY SOIL MICROORGANISM AS A SOLUTION FOR PLASTIC LITTER POLLUTION" submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of requirement for the award of the Degree of Bachelor of Science in Biotechnology, is a bonafide record of the original work done by ANITHRA R Reg. No. 180021046895 under the supervision and guidance of Dr. DHANYA V, Department of Biotechnology, Al-Ameen College, Edathala during the period of December 2020 to March 2021.

Internal Guide:

Head of the Department:

External Examiner:

Internal Examiner : (



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Date: 12th July, 2021

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This is to certify that the dissertation entitled "PHYTOCHEMICAL ANALYSIS AND INVITRO ANTIOXIDANT AND ANTIMICROBIAL ACTIVITY OF WITHANIA SOMNIFERA (ASHWAGANDHA) ROOT EXTRACT "submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the requirements for the award of the Degree of Bachelor of Science in Biotechnology, is a bonafide record of the original work done by Mr NIMESH A B (Reg no: 180021046912) and Ms SUKANYA R H (Reg. no: 180021046925) under the supervision and guidance of Ms ALPHY NISA STEAPHEN, Asst. Professor, Dept. Of Biotechnology, AL-Ameen College, Edathala for the period of 3 months (November 1st – January 31st). The work presented here is the original and has not been submitted so far in part of fulfilment for any other degree or diploma of any other university/institutions.

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Date:

CERTIFICATE

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Internal Guide:

Head of the Department:

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CERTIFICATE

This is to certify that the dissertation entitled "GREEN SYNTHESIS OF ZINC OXIDE NANOPARTICLES USING AZADIRACHTA INDICA LEAF EXTRACT" submitted to the Mahatma Gandhi University, Kottayam in partial fulfilment of the requirements for the award of the degree of Bachelor of Science in Biotechnology is a record of original research work done by Fathima M.S under the supervision and guidance of Rahimol Ramesh

> Rahimol Ramesh Head of Department Biotechnology

External Examiner

Internal Examiner Rahinal Ramesh Sanaoja M.S.



AL AMEEN COLLEGE, EDATHALA (Affiliated to Mahatma Gandhi University, Kottayam) Edathala P O, Aluva – 683564

CERTIFICATE

This is to certify that the dissertation entitled "DRIED LEAF EXTRACTED MEDIATED GREEN SYNTHESIS OF ZINC OXIDE NANOPARTICLES FROM AZADIRACHTA INDICA" submitted to the Mahatma Gandhi University, Kottayam in partial fulfilment of the requirements for the award of the degree of Bachelor of Science in Biotechnology is a record of original research work done by Abin Joy under the supervision and guidance of Rahimol Ramesh

Rahimol Ramesh
Head of Department

Biotechnology

Internal Examiner External Examiner

Rahinust Ramesh
Sanooja · M · S



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Date:

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CERTIFICATE

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Internal Guide.

Head ofthe Department.

Submitted to the external examiner for viva voce on $\frac{19}{6}$

External Examiner:

Internal Examiner:



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Date: /2/6/21

CERTIFICATE

This is to certify that the dissertation titled "WATER QUALITY ANALYSIS OF MARINE DRIVE DURING COVID-19 PANDEMIC" submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of requirement for the award of the Degree of Bachelor of Science in Biotechnology, is a bonafide record of the original work done by JERSON ANTONY, Reg. no. 180021046906 and ANAGHA ELSA BABY, Reg. no. 180021046893 under the supervision and guidance of Ms. SANOOJA M.S, Dept. of Biotechnology, Al-Ameen College, Edathala during the period of December 2020 to March 2021.

Internal Guide: My

Head of the Department:

Submitted to the external examiner for viva voce on ...!? [6]21

Internal Examiner: (IW



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Date: 21/6/21

CERTIFICATE

This is to certify that the dissertation titled "DEVELOPMENT OF POTENTIAL BIOCONTROL AGENTS AND ITS EXPLOITATION IN AGRICULTURE" submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of requirement for the award of the Degree of Bachelor of Science in Biotechnology, is a bonafide record of the original work done by V.A. SHABANA Reg. no. 170021042878 under the supervision and guidance of Dept. of Biotechnology, Al-Ameen College, Edathala during the period of January 2020 to February 2020.

Internal Examiner: 101612020



CERTIFICATE

This is to certify that the dissertation entitled "Isolation and molecular Identification of Plant Growth Promoting Rhizobacteria (PGPR) associated with orchid roots and evaluation of microbial production of auxin " is a bonafide record of the original research work done by Ms. Farzana P Marakkar, Al-Ameen College, Edathala partial fulfillment of the requirement for the award of 'Degree of Bachelor of Science in Biotechnology' during the period of her study in the Department of Biotechnology, under my direct supervision & guidance.



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CERTIFICATE

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Date: 12th July, 2021

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