



SCMS SCHOOL OF TECHNOLOGY AND MANAGEMENT
SCMS Campus, Prathap Nagar, Muttom, Aluva, COCHIN- 683 106. Kerala

PROJECT WORK

BIOTECH



Department of Biotechnology

Main Project (BO6PRT01)

B.Sc. BOTANY & BIOTECHNOLOGY (DOUBLE CORE) 2019-2022

Student list

SL NO.	Roll No.	Name of the Student	Title of the project
1	B.Sc. Bt 93	Aiswarya D.	Anti-inflammatory comparison of Klenia grandiflora, Vernonia cinerea and Emilia sonchifolia – invitro and Insilco approach
2	B.Sc. Bt 92	Amrutha Sanil	
3	B.Sc. Bt 97	Gowri S.	
4	B.Sc. Bt 83	Lakshmi K. Raghu	Effectiveness of pteridophytes with respect to Salvinia molesta as biofuel – a comparative study
5	B.Sc. Bt 87	Meghasree P. S.	
6	B.Sc. Bt 90	Zainab M. Jabbar	
7	B.Sc. Bt 89	Noufia Nejeev	Molecular mechanism behind the Lead and Zinc tolerance in bacteria isolated from polluted stations of Periyar river
8	B.Sc. Bt 95	Santhy T. S.	
9	B.Sc. Bt 96	Sharannia Raveendran	

Dr. G. SASHI KUMAR
PRINCIPAL
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SCMS Campus, Prathap Nagar, Muttom, Aluva, COCHIN- 683 106. Kerala

M.Sc. Molecular Biology & Genetic Engineering (2020-2022)

Main Project (BS030402) Students List

Roll No.	Name of the Student	Title of the project
MSMB 81	Maria Foustina Mathew	Expression Profiling of starch synthase ii gene involved in starch synthesis of various varieties of Oryza sativa.
MSMB 74	Priyanka . P	A Comprehensive Expression Analysis of the G8.SS gene in Various Varieties of Oryza sativa
MSMB 75	Soja Tom	Vero Cells As a Model System For Cancer Studies: Preliminary Evaluation
MSMB 77	Hasna Shajahan	Molecular characterization and structural analysis of aquaporin (AQP) gene in four Oryza sativa species;
MSMB 78	Alysha Fathma Bijumon	Aquaporin gene expression in various varieties of Oryza sativa L.
MSMB 79	Ashley Zahra Bijumon	Investigation of Anticancer and Apoptosis Inducing Effect of Quercetin on Vero cells In Vitro
MSMB 80	Maria Abraham	In vitro assessment of Anti-Inflammatory Effect of Quercetin on Vero Cells

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Certificate

This is to certify that the project report entitled "Molecular mechanism behind the Lead and Zinc tolerance in bacteria isolated from polluted stations of Periyar river" is an authentic record of the research work carried out by Noufia Nejeev, Sharannia Raveendran and Shanthy T.S under my supervision in partial fulfillment of the requirements for the B.Sc. degree in Botany and Biotechnology (Dual core) of the Mahatma Gandhi University, Kottayam and further that no part thereof has been presented before for any other degree.

Cochin

May

2022

Dr. Asha Raj K. R.

Assistant Professor

Biotechnology Division

SSTM, Cochin.



Head of the institution:





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Certificate

This is to certify that the project report entitled **Effectiveness of Pteridophytes with respect to *Salvinia molesta* D.S. Mitch. as Biofuel - A comparative Study** " is an authentic record of the research work carried out by **Lakshmi K. Raghu, Meghasree P. S. and Zainab M. Jabbar** under my supervision in partial fulfillment of the requirements for the **B.Sc. degree in Botany and Biotechnology (Dual core)** of the **Mahatma Gandhi University, Kottayam** and further that no part thereof has been presented before for any other degree.

Cochin

March 2022


Mrs. Shiny Deepak & Ranjith C. V.
Assistant Professors
Biotechnology Division
SSTM, Cochin.

Head of the institution:







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Certificate

This is to certify that the project report entitled "Anti Inflammatory Comparison" is an authentic record of the research work carried out by Aiswarya D, Amrutha Sanil, Gowri S under my supervision in partial fulfillment of the requirements for the B.Sc. degree in Botany and Biotechnology (Dual core) of the Mahatma Gandhi University, Kottayam and further that no part thereof has been presented before for any other degree.

Cochin

May 2022

Head of the institution:



Dr. Harish M
Scientist
Biotechnology
Division
SSTM, Cochin.

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CERTIFICATE

This is to certify that the thesis entitled "Aquaporin gene expression in various varieties of *Oryza sativa L.*" is an authentic record of the research work carried out by Ms. Alysha Fathma Bijumon, under my supervision in partial fulfillment of the requirements for the Master of Science degree in Molecular Biology and Genetic Engineering of the Mahatma Gandhi University, Kottayam and further that no part thereof has been presented before for any other degree.

Cochin

October 2022


10/10/22
Dr. Harish M

Research supervisor

Senior Scientist, Biotechnology division

SSTM, Cochin





DR SETHULEKSHMY NAIR
DEPUTY DIRECTOR
SCMS INSTITUTE OF BIOSCIENCE AND
BIOTECHNOLOGY RESEARCH & DEVELOPMENT







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Certificate

This is to certify that the thesis entitled "Investigation of anti cancer and apoptosis inducing effect of quercetin on vero cells in vitro" is an authentic record of the research work carried out by Ms. Ashley Zahra Bijumon, under my supervision in partial fulfilment of the requirements for the Master of Science degree in Molecular Biology and Genetic Engineering of the Mahatma Gandhi University, Kottayam and further that no part thereof has been presented before for any other degree.


Cochin

October 2022




Dr. Deepthi D. C

Assistant professor
Biotechnology Division
SSTM, Cochin


DR SETHULEKSHMY NAIR
DEPUTY DIRECTOR
SCMS INSTITUTE OF BIOSCIENCE AND
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Certificate

This is to certify that the thesis entitled "Molecular characterization and structural analysis of aquaporin (AQP) gene in four *Oryza sativa* species; Jyothi, Pokkali, Karanellu and Njavara, native to Kerala" is an authentic record of the research work carried out by Ms. Hasna Shajahan, under my supervision in partial fulfilment of the requirements for the M.Sc. degree in Molecular Biology and Genetic Engineering of the Mahatma Gandhi University, Kottayam and further that no part thereof has been presented before for any other degree.

Cochin

October 2022



10/10/22

Dr Harish M

Research Supervisor

Scientist, biotechnology Division

SSTM, Cochin

DR SETHULEKSHMY NAIR
DEPUTY DIRECTOR
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CERTIFICATE

This is to certify that the thesis entitled "*In vitro* assessment of Anti-inflammatory effect of quercetin on Vero cells" is an authentic record of the research work carried out by Ms. Maria Abraham, under my supervision in partial fulfilment of the requirements for the Master of Science degree in **Molecular Biology And Genetic Engineering** of the Mahatma Gandhi University, Kottayam and further that no part thereof has been presented before for any other degree.

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October 2022



Dr SETHULEKSHMY NAIR
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Dr. Deepthi D C
Assistant Professor
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CERTIFICATE

This is to certify that the thesis entitled "EXPRESSION PROFILING OF STARCH SYNTHASE II GENE INVOLVED IN STARCH SYNTHESIS OF VARIOUS VARIETIES OF *ORYZA SATIVA. L*" is a record of the research work carried out by Ms. Maria Foustina Mathew, under my supervision in partial fulfillment of the requirement for the M.Sc. Degree in Molecular Biology and Genetic Engineering of the Mahatma Gandhi University, Kottayam and further that no part there of has been presented before for any other degree.

Cochin

October 2022



Dr. Anoja Kurian

Research Supervisor

Assistant Professor, Biotechnology Division

SSTM, Cochin

DR SETHULEKSHMY NAIR
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Certificate

This is to certify that the thesis entitled "A Comprehensive Expression Analysis of the *GBSS* gene in Various Varieties of *Oryza sativa L.*" is an authentic record of the research work carried out by Ms. Priyanka P. under my supervision in partial fulfilment of the requirements for the M.Sc. degree in Molecular Biology and Genetic Engineering of the Mahatma Gandhi University, Kottayam and further that no part thereof has been presented before for any other degree.

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October 2022

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Certificate

This is to certify that the thesis entitled "Vero Cells As A Model System For Cancer Studies: Preliminary Evaluation" is an authentic record of the research work carried out by Ms. Soja Tom under my supervision in partial fulfilment of the requirements for the M.Sc. degree in Molecular Biology and Genetic Engineering of the Mahatma Gandhi University, Kottayam and further that no part thereof has been presented before for any other degree.

Cochin

October 2022




Dr. Divya U K

Assistant Professor
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