Morphology and Reproductive Potential of Gynostemium in

Thottea idukkiana Panduran. & Nair

15PB046

Dissertation submitted in partial fulfilment of the requirements for the award of the degree of

Master of Science

in

Botany

By

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Kollam

June, 2019



Department of Botany

CERTIFICATE

This is to certify that this dissertation entitled "Morphology and Reproductive Potential of Gynostemium in Thottea idukkiana Panduran. & Nair" is an authentic record of research work carried out by Kumari Amritha S under my supervision and guidance, in partial fullulment of the requirements of M.Sc. Botany degree of Kerala University. I also certify that no part of this work has previously formed the basis for the award of any Degree, Diploma, Associateship, Fellowship or other number titles of this or any other University or Society.

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Dr. SHAIJU P N

Assistant Professor & Research Guide
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Dr. MERILYN V J

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MICROPROPAGATION OF FOENICULUM VULGARE MILL. THROUGH SHOOT MULTIPLICATION, INDIRECT ORGANOGENESIS AND SYNTHETIC SEED PRODUCTION

15PBO46

Dissertation submitted in partial fulfilment of the requirements for the award of degree of

Master of Science In Botany

ANCY ALEX

Candidate code: P1714002



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JUNE, 2019

The locartify that this dissertation entitled "Micropropagation of Inenhalium vulgare Mill through shoot multiplication, indirect organogenesis, and synthese production." Submitted by Ancy Alex (candidate code: P1714002) In partial fulfillment of the requirements for the MSc. Degree in Botany of the University of Kerala is based on the orginal research work carried out by her under my guidance and supervision.

JUNE 2019

KOLLAM

Dr. MERYLIN V.J

HEAD OF THE DEPARTMENT,

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Fatima Mata National College

Kollam - 691001

wia e Pro Dept. of Pro M.N. College

EVALUATION OF GROWING CONDITIONS FOR BETTER YIELD IN TWO STRAINS OF

Pleurotus florida (Mont). Solms

(Fast growing strain from IIHR, Bengaluru and an isolate obtained from Kerala Agriculture University, Vellayani)

15PBO46

DISSERTATION

Submitted to the University of Kerala

in partial fulfillment of the requirements

for the award of the Degree of

Master of Science

in

BOTANY

By

Arya Ramachandran

Candidate Code :P1714003



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KOLLAM

June, 2019



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CERTIFICATE

This is to Certify that the Dissertation entitled "EVALUATION OF GROWING CONDITIONS FOR BETTER YIELD IN TWO STRAINS OF Pleurotus florida(Mont). Solms (Fast growing strain from IIHR, Bengaluru and an isolate obtained from Kerala Agriculture University, Vellayani)" submitted by Miss ARYA RAMACHANDRAN, in partial fulfillment of the requirement for the award of M.Sc. Degree in Botany of the University of Kerala, is based on the original work carried that by her under my guidance and supervision and this has not previously formed the basis for the award of any other Degree or other similar title of recognition.

Dr. SINILAL B.

Associate Professor, Department of Botany F.M.N.College(Autonomous) Kollam

DE MERILYN V.J

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SCREENING OF ANTICANCER ACTIVITY AND HISTOCHEMICAL ASPECTS IN Mirabilis jalapa L.

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of

Master of science

Botany

ATHIRA AJAYAN

Candidate code: P1714004

Exam code

: 15PB046



Department of botany **FATIMA MATA NATIONAL COLLEGE** KOLLAM July, 2019

AND HISTOCHEMICAL ASPECTS IN *Mirabilis jalapa* L." an authentic record of research work carried out by Miss. ATHIRA AJAYAN, under my supervision and guidance, in partial fulfilment of the requirements of M.Sc. Botany Degree of Kerala University. I also certify that no part of this work has previously formed the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of this or any other university or society.

Dr. MERILYN VJ

Associate professor

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A Study on the Anti-Inflammatory Activities of Chromolaena odorata (L.) R.M.King & H.Rob.

15PBO46

Dissertation submitted in partial fulfilment of the requirements

for the award of degree of

Muster of Science

In

Botany

By

ELIZABETH CHACKO

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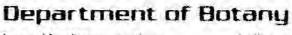


Post Graduate and Research Department of Botany

FATIMA MATA NATIONAL COLLEGE

KOLLAM

June, 2019



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CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON THE ANTI-INFLAMMATORY ACTIVITIES OF Chromolaena odorata (L.) R.M.King & H.Rob." is an authentic record of research work carried out by Kumari ELIZABETH CHACKO under my supervision and guidance, in partial fulfilment of the requirements of MSc Botany Degree of Kerala University. I also certify that no part of this work has previously formed the basis for the award of any Degree. Diploma. Associateship, Fellowship or other similar title of this or any other University or society.

Dr.Shaiju P.N. Associate Professor Department of Botany Fatima Mata National College Kollam.

Dr.MerilynV.J.
Head
Department of Botany
Fatima Mata National College
Kollam.

SELECTION OF PLANTS BEST SUITED FOR PLANT-MEDIATED GOLD NANOPARTICLE SYNTHESIS

A DISSERTATION

SUBMITTED TO FATIMA MATA NATIONAL COLLEGE(AUTONOMOUS) IN PARTIAL FULFILLMENT FOR THE DEGREE OF

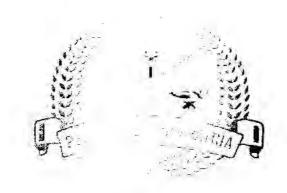
MASTER OF SCIENCE

IN

BOTANY

UNDER THE GUIDANCE OF

Dr.B. SINILAL



BY

JANANY.U.J

FATIMA MATA NATIONAL COLLEGE (AUTONOMOUS)

KOLLAM

SESSION 2017-2019

This is to certify that this dissertation entitled "SELECTION OF PLANTS INEST SUITED FOR PLANT-MEDIATED GOLD NANOPARTICLE SYNTHESIS" has been carried out personally by Ms. JANANY. U. J. under our direct supervision and guidance. All the experimental work has been conducted in the laboratories of Fatima Mata National College Kollam Kerala. The candidate herself has carried out the investigation and her observations are genuine.

Date

Place Kollan

Date

Place: Kollam

Dr.B.Sinilal

(Assistant professor) Department of Botany

FMNC, Kollam

Dr.Merilyn V.J.

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Preliminary Phytochemical Studies In Jasminum auriculatum Vahl.

15PB046

Dissertation submitted in partial fulfilment of the requirements for the award of the degreee of

Master of Science

In

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By

JASMI JAHANGIR

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KOLLAM
July, 2019

In Jasminumauriculatum Vahl." is an authenticrecord of research work carried out by JASMI JAHANGIRunder my supervision and guidance, in partial fulfillment of the requirements of M.Sc. Botany Degree of Kerala University. I also certify that no partial of this work has previously formed the basis for the award of any degree. Diploma, Associateship, Fellowship or other similar title of this or any other University or society.

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Dr. Merilyn V. J.

Head

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Fatima Mata National College

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IN VITRO PROPAGATION OF NIGELLA SATIVA L. THROUGH SHOOT MULTIPLICATION, INDIRECT ORGANOGENESIS AND SYNTHETIC SEED PRODUCTION

15PBO46

Dismrtation submitted in partial fulfilment of the requirements for the award of degree of

Master of Science In Botany

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Candidate code :- P1714008



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Certified that dissertation entitled "In vitro Propagation of Nigella vallea through shoot multiplication, indirect organogenesis and synseed production" submitted by Mary Blessy., Candidate code: P1714008 in partial fullillment of the requirements for the award of M.Sc. Degree in Botany of the University of Kerala is based on the original research work carried out by her in the Luboratories of this institution.

June 2019

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ANTI-INFLAMMATORY POTENTIALS OF HEMIGRAPHIS ALTERNATA (L.) HALLIER F.

15PBO46

Dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

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BOTANY

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PINKY CHRISTY

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June, 2019



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CERTIFICATE

This is to certify that this dissertation entitled "Anti-inflammatory potentials of Hemigraphis alternate (L.) Hallier L" is an authentic record of research work carried out by kumari Pinky Christy under my supervision and guidance, in partial fulfillment of the requirements of M.Sc Botany Degree of Kerala University. I also certify that no part of this work has previously formed the basis for the award of any Degree, Diploma, Associateship, Fellowship or other similar title of this or any other University or society.

Dr.Shaiju P.N.

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MORPHOLOGICAL, ANATOMICAL AND BIOCHEMICAL STUDIES IN SELECTED PLANTS OF FAMILY LAMIACEAE

DISSERTATION

Submitted to the University of Kerala
in the partial fulfillment of the requirements
for the award of the degree of
Masters of Science

in

BOTANY

BY

RAJASREE .S (CANDIDATE CODE P1714010)



DEPARTMENT OF BOTANY FATIMA MATA NATIONAL COLLEGE (AUTONOMOUS) KOLLAM

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FATIMA MATA NATIONAL COLLEGE

1311

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The relative for Certified that the dissertation entitled "MORPHOLOGICAL, ANATOMICAL AND BIOCHEMICAL STUDIES IN SELECTED IT ANTS OF FAMILY LAMIACEAE" submitted by RAJASREE. S, in partial fulfillment of the requirement for the award of M.Sc. Degree in Botany of the University of Kerala is based on the original work cathed out by her under my guidance and supervision and this has not previously formed the basis for the award of any degree or other similar title of recognition.

SMRITHI S PILLAI

Guest lecture

Department of Botany

Dr. MERILYN V.J

Head of the Department of Botany

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Phytochemical Screening and Anti-Oxidant activity of *Chamaecostus cuspidatus* (Nees & Mart)

15PB046

Dissertation

Submitted by partial fulfilment of the requirements for the award of the degree of

MASTER OF SCIENCE

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By

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Candidate code: P1714011



Post Graduate & Research Department of Botany FATIMA MATA NATIONAL COLLEGE (Autonomous)

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July,2019

This is to certify that this dissertation entitled "Phytochemical Screening and Anti-Uniform Activity of Chamaecostus cuspidatus (Nees & Mart)" is an authentic record of resemble book carried out by Shani Samuel under my supervision and guidance, in partial the requirements of M.Sc Botany Degree of Kerala University. I also certify that no part of this work line previously formed the basis for the award of any Degree, Diploma, Associateship, Lellowship or other similar title of this or any other University or society.

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Dr.Merilyn V.J

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A Preliminary Investigation on the Anti-inflammatory activities of Thottea siliquosa (Lam.) Ding Hou

15PBO46

Dissertation submitted in partial fulfilment of the requirements for the award of the degree of

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This is to certify that this dissertation entitled "A Preliminary Investigation on the Anti-inflammatory activities of Thottea siliquosa (Lam.) Ding Hou" is an authentic record of research work carried out by Soumyamol N. Under my supervision and guidance, in partial fulfillment of the requirements of M.Sc Botany Degree of Kerala University. I also certify that no part of this work has previously formed on the basis for the award of any Degree. Diploma, Associateship, Fellowship or other similar title of this or any other University or society.

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PRELIMINARY PHYTOCHEMICAL STUDIES IN Jasminum grandiflorum Linn.

15PBO46

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of

Master of Science

in

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By

STEFFY STANISLAUS

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Post Graduate & Research Department of Botany
FATIMA MATA NATIONAL COLLEGE

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This is to certify that this dissertation entitled "The Preliminary Phytochemical Studies In Jasminum grandiflorum Linn." is an authentic record of research work carried out by Kumari Steffy Stanislaus under my supervision and guidance, in partial fulfillment of the requirements of M.Sc Botany Degree of Kerala University. I also certify that no part of this work has previously formed the basis for the award of any Degree, Diploma, Associateship, Fellowship or other similar title of this or any other University or society...

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Associate Professor Department of Botany

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Dr. Merilyn V.J

Head

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PRELIMINARY PHYTOCHEMICAL SCREENING AND ANTIMICROBIAL ANALYSIS OF THREE PLANTS OF GENUS EUPHORBIA

15PB046

Dissertation Submitted
in the partial fulfillment of the requirements
for the award of the degree of
Master of Science

in

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BY

SUSMITHA D FERNANDEZ

Candidate code: P1714014



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July 2019



POST GRADUATE & RESEARCH DEPARTMENT OF BOTANY FATIMA MATA NATIONAL COLLEGE

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PHYTOCHEMICAL SCREENING AND ANTIMICROBIAL ANALYSIS OF THREE PLANTS OF GENUS EUPHORBIA" submitted by Miss. SUSMITHA D FERNANDEZ, in partial fulfillment of the requirement for the award of M.Sc. Degree in Botany of the University of Kerala, is based on the original work carried out by her under my guidance and supervision and this has not previously formed the basis for the award of any degree or other similar title of recognition.

SMRITHI S PILLAL

Guest lecture

Clary-10/11/9 DEMIRILYNVI

Annosciate Professor

Head of the Department of Botany

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Kollam

ANALYSIS OF CHANGE IN YIELD AND ECOLOGICAL SIGNIFICANCE OF Calocybe indica (P&C) CULTIVATION; WHEN IT'S ORDINARY SUBSTRATUM STRAW IS REPLACED BY Eichhornia crassipes.

15PB046

DISSERTATION

Submitted to the University of Kerala

in the partial fulfillment of the requirements

for the award of the degree of

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By

SREEJITH J

Candidate code: P1714015

Under the supervision

Mrs. ANITHA.B

Guest lecturer Department of Botany



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JUNE 2019



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CERTIFICATE

This is to certify that the dissertation entitled "ANALYSIS OF CHANGE IN YIELD AND ECOLOGICAL SIGNIFICANCE OF Calocybe indica (P&C) CULTIVATION; WHEN IT'S ORDINARY SUBSTRATUM STRAW IS REPLACED BY Eichhornia crassipes." Submitted by SREEJITH.J candidate code P1714015 in partial fulfillment of the requirement for the award of M.Sc. Degree in Botany of the University of Kerala is based on the original work carried out by him under my guidance and supervision and this has not previously formed the basis for the award of any degree or other similar title of recognition.

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June 2019

Morphology and Reproductive Potential of Gynostemium in

Thottea idukkiana Panduran. & Nair

15PB046

Dissertation submitted in partial fulfilment of the requirements for the award of the degree of

Master of Science

in

Botany

By

AMRITHAS

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Kollam

June, 2019



Department of Botany

Fatima Mata National College(National College, National Statement (National College, action Phone: 04742743387)

CERTIFICATE

participation or give any ...

This is to certify that this dissertation entitled "Morphology and Reproductive Potential of Gynostemium in Thottea idukkiana Panduran. & Nair" is an authentic record of research work carried out by Kumari Amritha S under my supervision and guidance, in partial fullillment of the requirements of M.Sc. Botany degree of Kerala University. I also certify that no part of this work has previously formed the basis for the award of any Degree, Diploma, Associateship, Fellowship or other simular titles of this or any other University or Society.

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Assistant Professor & Research Guide
Department of Botany
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Dr. MERILYN V J

Head

Department of Botany
Fatima Mata National College
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MICROPROPAGATION OF FOENICULUM VULGARE MILL. THROUGH SHOOT MULTIPLICATION, INDIRECT ORGANOGENESIS AND SYNTHETIC SEED PRODUCTION

15PBO46

Dissertation submitted in partial fulfilment of the requirements for the award of degree of

Master of Science In Botany

ANCY ALEX

Candidate code: P1714002



Post Graduate and Research Department of Botany

FATIMA MATA NATIONAL COLLEGE

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JUNE, 2019

This is to certify that this dissertation entitled "Micropropagation of Formiculum vulgare Mill through shoot multiplication, indirect organogenesis, and synapsed production." Submitted by Ancy Alex (candidate code: P1714002) in partial fulfillment of the requirements for the MSc. Degree in Botany of the University of Kerala is based on the orginal research work carried out by her under my guidance and supervision.

Dr. MERYLIN V.J

HEAD OF THE DEPARTMENT,

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JUNE 2019

KOLLAM

EVALUATION OF GROWING CONDITIONS FOR BETTER YIELD IN TWO STRAINS OF

Pleurotus florida (Mont). Solms

(Fast growing strain from IIHR, Bengaluru and an isolate obtained from Kerala Agriculture University, Vellayani)

15PBO46

DISSERTATION

Submitted to the University of Kerala

in partial fulfillment of the requirements

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Master of Science

in

BOTANY

By

Arya Ramachandran

Candidate Code: P1714003



DEPARTMENT OF BOTANY

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KOLLAM

June, 2019



POST GRADUATE & RESEARCH DEPARTMENT OF BOTANY FATIMA MATA NATIONAL COLLEGE

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CERTIFICATE

This is to Certify that the Dissertation entitled "EVALUATION OF GROWING CONDITIONS FOR BETTER YIELD IN TWO STRAINS OF Pleurotus florida (Mont). Solms (Fast growing strain from IIHR, Bengaluru and an isolate obtained from Kerala Agriculture University, Vellayani)" submitted by Miss ARYA RAMACHANDRAN, in partial fulfillment of the requirement for the award of M.Sc. Degree in Botany of the University of Kerala, is based on the original work carried out by her under my guidance and supervision and this has not previously formed the basis for the award of any other Degree or other similar title of recognition.

Dr. SINILAL B.

Associate Professor, Department of Botany F.M.N.College(Autonomous) Kollam

- w/7/19.

Dr. MERILYN V.J.

Hend of the Department of Botany, I: M N College (Autonomous), Kollam - 690001

SCREENING OF ANTICANCER ACTIVITY AND HISTOCHEMICAL ASPECTS IN *Mirabilis jalapa* L.

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of

Master of science

in

Botany

By

ATHIRA AJAYAN

Candidate code: P1714004

Exam code : 15PB046



Department of botany
FATIMA MATA NATIONAL COLLEGE
KOLLAM
July, 2019

AND HISTOCHEMICAL ASPECTS IN *Mirabilis jalapa* L." an authentic record of research work carried out by Miss. ATHIRA AJAYAN, under my supervision and guidance, in partial fulfilment of the requirements of M.Sc. Botany Degree of Kerala University. I also certify that no part of this work has previously formed the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of this or any other university or society.

Dr. MERILYN V.J

Associate professor

Head of the Department

I MN College

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ANITHA E

Guest lecturer

FMN College

A Study on the Anti-Inflammatory Activities of Chromolaena odorata (L.) R.M.King & H.Rob.

15PBO46

Dissertation submitted in partial fulfilment of the requirements

for the award of degree of

Muster of Science

 \mathcal{J}_n

Botany

By

ELIZABETH CHACKO

Candidate code: P1714005



Post Graduate and Research Department of Botany

FATIMA MATA NATIONAL COLLEGE

KOLLAM

June, 2019



Department of Botany

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(Kollan) /

CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON THE ANTI-INFLAMMATORY ACTIVITIES OF Chromolaena odorata (L.) R.M.King & H.Rob." is an authentic record of research work carried out by Kumari ELIZABETH CHACKO under my supervision and guidance, in partial fulfilment of the requirements of MSc Botany Degree of Kerala University. I also certify that no part of this work has previously formed the basis for the award of any Degree. Diploma. Associateship, Fellowship or other similar title of this or any other University or society.

Dr.Shaiju P.N.

Associate Professor Department of Botany

Fatima Mata National College

Kollam.

Dr. Merilyn V.J.

Head

Department of Botany Fatima Mata National College

SELECTION OF PLANTS BEST SUITED FOR PLANT-MEDIATED GOLD NANOPARTICLE SYNTHESIS

A DISSERTATION

SUBMITTED TO FATIMA MATA NATIONAL COLLEGE(AUTONOMOUS) IN PARTIAL FULFILLMENT FOR THE DEGREE OF

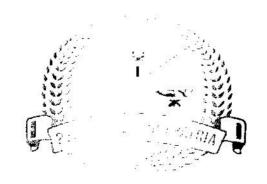
MASTER OF SCIENCE

IN

BOTANY

UNDER THE GUIDANCE OF

Dr.B. SINILAL



BY

JANANY.U.J

FATIMA MATA NATIONAL COLLEGE (AUTONOMOUS)

KOLLAM

SESSION 2017-2019

This is to certify that this dissertation entitled "SELECTION OF PLANTS BEST SUITED FOR PLANT-MEDIATED GOLD NANOPARTICLE SYNTHESIS" has been carried out personally by Ms. JANANY. U. J. under our direct supervision and guidance. All the experimental work has been conducted in the laboratories of Fatima Mata National College Kollam Kerala. The candidate herself has carried out the investigation and her observations are genuine.

Date:

Place Kollam

Date:

Place: Kollam

Dr.B.Sinilal

(Assistant professor) Department of Botany

FMNC, Kollam

Dr.Merilyn V.J.

Head of the Department

Department of Botany

FMNC, Kollam

Preliminary Phytochemical Studies In Jasminum auriculatum Vahl.

15PB046

Dissertation submitted in partial fulfilment of the requirements for the award of the degreee of

Master of Science

In

Botany

By JASMI JAHANGIR

CANDIDATE CODE: P1714007



Post Graduate & Research Department of Botany
FATIMA MATA NATIONAL COLLEGE
KOLLAM
July, 2019

This is to certify that this dissertation entitled "Preliminary Phytochemical Studies In Jasminumauriculatum Vahl." is an authenticrecord of research work carried out by JASMI JAHANGIRunder my supervision and guidance, in partial fulfillment of the requirements of M.Sc. Botany Degree of Kerala University. I also certify that no part of this work has previously formed the basis for the award of any degree, Diploma, Associateship, Fellowship or other similar title of this or any other University or society.

Ms. J.Nirmala Jeyarani

Associate Professor

Department of Botany

Fatima Mata National College

Kollam.

Dr. Merilyn V. J.

Head

Department of Botany

Fatima Mata National College

IN VITRO PROPAGATION OF NIGELLA SATIVA L. THROUGH SHOOT MULTIPLICATION, INDIRECT ORGANOGENESIS AND SYNTHETIC SEED PRODUCTION

15PBO46

Dissertation submitted in partial fulfilment of the requirements for the award of degree of

Master of Science In Botany

MARY BLESSY

Candidate code :- P1714008



Post Graduate and Research Department of Botany
FATIMA MATA NATIONAL COLLEGE

KOLLAM

JUNE, 2019

Certified that dissertation entitled "In vitro Propagation of Nigella vathra through shoot multiplication, indirect organogenesis and synseed production" submitted by Mary Blessy., Candidate code: P1714008 in partial fulfillment of the requirements for the award of M.Sc. Degree in Botany of the University of Kerala is based on the original research work carried out by her in the Laboratories of this institution.

June 2019

Kollam

Dr. Merylin V.J

Head, Department of Botany

Fatima Mata National College

IN VITRO PROPAGATION OF NIGELLA SATIVA L. THROUGH SHOOT MULTIPLICATION, INDIRECT ORGANOGENESIS AND SYNTHETIC SEED PRODUCTION

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Post Graduate and Research Department of Botany
FATIMA MATA NATIONAL COLLEGE

KOLLAM

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June 2019

Kollam

Dr. Merylin V.J

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Fatima Mata National College

ANTI-INFLAMMATORY POTENTIALS OF HEMIGRAPHIS ALTERNATA (L.) HALLIER F.

15PBO46

Dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

Master of Science

in

BOTANY

By

PINKY CHRISTY

Candidate code: P1714009



Post Graduate & Research Department of Botany
FATIMA MATA NATIONAL COLLEGE,

KOLLAM.

June, 2019



Department of Botany

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CERTIFICATE

This is to certify that this dissertation entitled "Anti-inflammatory potentials of Hemigraphis alternate (L.) Hallier f." is an authentic record of research work carried out by kumari Pinky Christy under my supervision and guidance, in partial fulfillment of the requirements of M.Sc Botany Degree of Kerala University. I also certify that no part of this work has previously formed the basis for the award of any Degree, Diploma, Associateship, Fellowship or other similar title of this or any other University or society.

Dr.Shaiju P.N.

Assistant Professor

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MORPHOLOGICAL, ANATOMICAL AND BIOCHEMICAL STUDIES IN SELECTED PLANTS OF FAMILY LAMIACEAE

DISSERTATION

Submitted to the University of Kerala
in the partial fulfillment of the requirements
for the award of the degree of
Masters of Science

in

BOTANY

BY

RAJASREE .S (CANDIDATE CODE P1714010)



DEPARTMENT OF BOTANY FATIMA MATA NATIONAL COLLEGE (AUTONOMOUS) KOLLAM

June 2019



FATIMA MATA NATIONAL COLLEGE

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The relo Certified that the dissertation entitled "MORPHOLOGICAL, ANATOMICAL AND BIOCHEMICAL STUDIES IN SELECTED PLANTS OF FAMILY LAMIACEAE" submitted by RAJASREE. S, in partial fulfillment of the requirement for the award of M.Sc. Degree in Botany of the University of Kerala is based on the original work carried out by her under my guidance and supervision and this has not previously formed the basis for the award of any degree or other similar title of recognition.

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Guest lecture

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Phytochemical Screening and Anti-Oxidant activity of *Chamaecostus cuspidatus* (Nees & Mart)

15PB046

Dissertation

Submitted by partial fulfilment of the requirements for the award of the degree of

MASTER OF SCIENCE

In

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This is to certify that this dissertation entitled "Phytochemical Screening and Anti-Outlant Activity of Chamaecostus cuspidatus (Nees & Mart)" is an authentic record of Immunichwork carried out by Shani Samuel under my supervision and guidance, in partial the Impurements of M.Sc Botany Degree of Kerala University. I also certify that no part of this work Impurements formed the basis for the award of any Degree, Diploma, Associateship, Indianaly or other similar title of this or any other University or society.

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A Preliminary Investigation on the Anti-inflammatory activities of *Thottea siliquosa* (Lam.) Ding Hou

15PBO46

Dissertation submitted in partial fulfilment of the requirements for the award of the degree of

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PRELIMINARY PHYTOCHEMICAL STUDIES IN Jasminum grandiflorum Linn.

15PBO46

Dissertation submitted in partial fulfillment of the requirements for the award of the degree of

Master of Science

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This is to certify that this dissertation entitled "The Preliminary Phytochemical Studies In Jasminum grandiflorum Linn." is an authentic record of research work carried out by Kumari Steffy Stanislaus under my supervision and guidance, in partial fulfillment of the requirements of M.Sc Botany Degree of Kerala University. I also certify that no part of this work has previously formed the basis for the award of any Degree, Diploma, Associateship, Fellowship or other similar title of this or any other University or society..

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PRELIMINARY PHYTOCHEMICAL SCREENING AND ANTIMICROBIAL ANALYSIS OF THREE PLANTS OF GENUS EUPHORBIA

15PB046

Dissertation Submitted
in the partial fulfillment of the requirements
for the award of the degree of
Master of Science

in

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POST GRADUATE & RESEARCH DEPARTMENT OF BOTANY FATIMA MATA NATIONAL COLLEGE

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CERTIFICATE

This is to Certified that the dissertation entitled "PRELIMINARY PHYTOCHEMICAL SCREENING AND ANTIMICROBIAL ANALYSIS OF THREE PLANTS OF GENUS EUPHORBIA" submitted by Miss. SUSMITHA D FERNANDEZ, in partial fulfillment of the requirement for the award of M.Sc. Degree in Botany of the University of Kerala, is based on the original work carried out by her under my guidance and supervision and this has not previously formed the basis for the award of any degree or other similar title of recognition.

SMRITHI S PILLAI

Guest lecture

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Annosciate Professor

Head of the Department of Botany

I-M N College (Autonomous)

ANALYSIS OF CHANGE IN YIELD AND ECOLOGICAL SIGNIFICANCE OF Calocybe indica (P&C) CULTIVATION; WHEN IT'S ORDINARY SUBSTRATUM STRAW IS REPLACED BY Eichhornia crassipes.

15PB046

DISSERTATION

Submitted to the University of Kerala

in the partial fulfillment of the requirements

for the award of the degree of

Masters of Science in

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This is to certify that the dissertation entitled "ANALYSIS OF CHANGE IN YIELD AND ECOLOGICAL SIGNIFICANCE OF Calocybe indica (P&C) CULTIVATION; WHEN IT'S ORDINARY SUBSTRATUM STRAW IS REPLACED BY Eichhornia crassipes." Submitted by SREEJITH.J candidate code P1714015 in partial fulfillment of the requirement for the award of M.Sc. Degree in Botany of the University of Kerala is based on the original work carried out by him under my guidance and supervision and this has not previously formed the basis for the award of any degree or other similar title of recognition.

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