

**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

AMRITHA S

Candidate code : **P1714001**



Post Graduate & Research Department of Botany

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June, 2019



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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 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 titles of this or any other University or Society.

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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
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This is to certify that this dissertation entitled "Micropropagation of *Tuenticulum vulgare* Mill through shoot multiplication, indirect organogenesis, and synseed 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 original research work carried out by her under my guidance and supervision.



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**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

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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.

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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

in

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By

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This is to certify that the dissertation entitled "SCREENING OF ANTICANCER ACTIVITY 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.


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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

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Master of Science

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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.



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**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

CERTIFICATE

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.

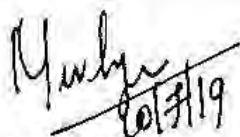


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Preliminary Phytochemical Studies In *Jasminum auriculatum* Vahl.

15PB046

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

Master of Science

In

Botany

By

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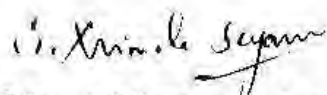
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This is to certify that this dissertation entitled "**Preliminary Phytochemical Studies in *Jasminum auriculatum* Vahl.**" is an authentic record of research work carried out by **JASMI JAHANGIR** under my supervision and guidance, in partial fulfillment 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.



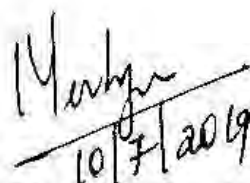
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**IN VITRO PROPAGATION OF NIGELLA SATIVA L.
THROUGH SHOOT MULTIPLICATION, INDIRECT
ORGANOGENESIS AND SYNTHETIC SEED PRODUCTION**

15PBO46

*Dissertation submitted in partial fulfilment of the requirements for the
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**ANTI-INFLAMMATORY POTENTIALS OF
HEMIGRAPHIS ALTERNATA (L.) HALLIER F.**

15PBO46

Dissertation submitted in partial fulfillment of the requirements

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This is to certify that this dissertation entitled "**Anti-inflammatory potentials of *Hemigraphis alternata* (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.



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

DISSERTATION

*Submitted to the University of Kerala
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Masters of Science*

in

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BY

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This is to certify 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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**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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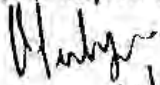
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This is to certify that this dissertation entitled "**Phytochemical Screening and Anti-Oxidant Activity of *Chamaecostus cuspidatus (Nees & Mart)***" is an authentic record of researchwork carried out by Shani Samuel under my supervision and guidance, in partial the requirements of M.Sc Botany Degree of Kerala University. I also certify that no part of this work 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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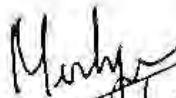
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**A Preliminary Investigation on the Anti-inflammatory
activities of *Thottea siliquosa* (Lam.) Ding Hou**

15PBO46

*Dissertation submitted in partial fulfilment of the requirements
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PRELIMINARY PHYTOCHEMICAL STUDIES IN
Jasminum grandiflorum Linn.

15PBO46

Dissertation submitted in partial fulfillment of the requirements

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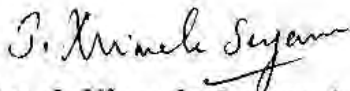
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This is to certify that this dissertation entitled "**The Preliminary Phytochemical Studies In *Jasminum grandiflorum* Linn.**" is an authentic record of research work carried out by **Kumari Steffy Stanislaus** under my supervision and guidance, in 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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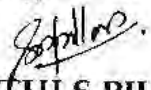


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This is to Certified that the dissertation entitled "PRELIMINARY PHYTOCHEMICAL SCREENING AND ANTIMICROBIAL ANALYSIS OF THREE PLANTS OF GENUS EUPHORBIA" submitted by Miss. SUSMITHA D FERNANDEZ, in partial fulfillment of the requirement for the award 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


Dr. MERILYN V J

Associate Professor

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**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

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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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15PB046

Dissertation submitted in partial fulfilment of the requirements
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Botany

By

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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
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Post Graduate and Research Department of Botany

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CERTIFICATE

This is to certify that this dissertation entitled “Micropropagation of *Tenckulum vulgare* Mill through shoot multiplication, indirect organogenesis, and axiisred 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 original research work carried out by her under my guidance and supervision.



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**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

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BOTANY

By

Arya Ramachandran

Candidate Code :P1714003



DEPARTMENT OF BOTANY

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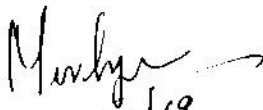
CERTIFICATE

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

*Dissertation submitted in partial fulfillment of the
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By

ATHIRA AJAYAN

Candidate code : P1714004

Exam code : 15PB046



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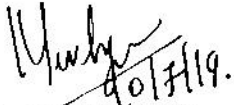
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July, 2019

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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

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Master of Science

In

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**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

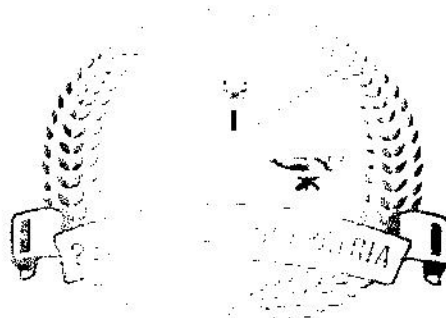
MASTER OF SCIENCE

IN

BOTANY

UNDER THE GUIDANCE OF

Dr.B. SINILAL



BY

JANANY.U.J

FATIMA MATA NATIONAL COLLEGE (AUTONOMOUS)

KOLLAM

SESSION 2017-2019

CERTIFICATE

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.



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Place: Kollam



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Place: Kollam

Preliminary Phytochemical Studies In *Jasminum auriculatum* Vahl.

15PB046

*Dissertation submitted in partial fulfilment of the
requirements for the award of the degree of
Master of Science*

In

Botany

By

JASMI JAHANGIR

CANDIDATE CODE: P1714007



Post Graduate & Research Department of Botany

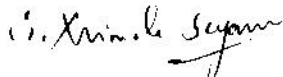
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July, 2019

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This is to certify that this dissertation entitled "**Preliminary Phytochemical Studies In *Jasminum auriculatum* Vahl.**" is an authentic record of research work carried out by **JASMI JAHANGIR** 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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**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
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Certified that dissertation entitled “*In vitro* Propagation of *Nigella vatica* 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

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

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*Dissertation submitted in partial fulfilment of the requirements for the
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**ANTI-INFLAMMATORY POTENTIALS OF
HEMIGRAPHIS ALTERNATA (L.) HALLIER F.**

15PBO46

Dissertation submitted in partial fulfillment of the requirements

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This is to certify that this dissertation entitled "**Anti-inflammatory potentials of *Hemigraphis alternata* (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.

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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

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This is to 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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**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

BOTANY

By

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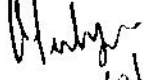
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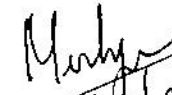
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This is to certify that this dissertation entitled “**Phytochemical Screening and Anti-Oxidant Activity of *Chamuecostus cuspidatus (Nees & Mart)***” is an authentic record of researchwork carried out by Shani Samuel under my supervision and guidance, in partial the requirements of M.Sc Botany Degree of Kerala University. I also certify that no part of this work 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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**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

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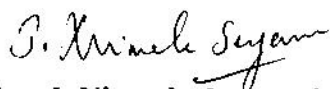
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This is to certify that this dissertation entitled "**The Preliminary Phytochemical Studies In *Jasminum grandiflorum* Linn.**" is an authentic record of research work carried out by **Kumari Steffy Stanislaus** under my supervision and guidance, in 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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SMRITHI S PILLAI

Guest lecture


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**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
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By

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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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