

THE DIVERSITY AND DISTRIBUTION OF SUCCULENT PLANTS AND THEIR MORPHOLOGICAL ADAPTATIONS IN COIMBATORE WITH TERRARIUM AS A MODEL

Dissertation submitted to Kongunadu Arts and Science College affiliated to Bharathiar University, Coimbatore in partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN BOTANY

Submitted by

Ms. NARTHANAA S

(192BO001)

II M.Sc BOTANY

Under the guidance of

Dr. K. THENMOZHI, M.Sc., M.Phil., Ph.D.,

Assistant Professor and Head of the Department

Department of Botany



PG and Reach Department of Botany

Kongunadu Arts and Science College (Autonomous)

Re-accredited by NAAC with 'A+' Grade (4th Cycle)

NIRF Rank: 70 (All Over India)

College of Excellence (UGC)

COIMBATORE- 641 029

MARCH 2021

PHYTOCHEMICAL ANALYSIS AND ANTIBACTERIAL ACTIVITY OF LEAF EXTRACT OF *JUSTICIA BETONICA* L.

DISSERTATION SUBMITTED TO KONGUNADU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY IN PARTIAL FULFILMENT FOR THE
AWARD OF THE DEGREE OF

MASTER OF SCIENCE IN BOTANY

Submitted by

KILLIVALAVAN N (192BO002)

II M. Sc. BOTANY

UNDER THE GUIDANCE

Dr. P. SUMATHI M.Sc., M.Phil., Ph.D.,

Assistant Professor

Department of Botany

Kongunadu Arts and Science College (Autonomous)



PG and Research Department of Botany

Kongunadu Arts and Science College

(Autonomous)

COLLEGE OF EXCELLENCE (UGC)

RE-ACCREDITED BY NAAC WITH 'A⁺' Grade 4th CYCLE

COIMBATORE - 29

MARCH, 2021

**PHYTOCHEMICAL INVESTIGATION AND BIOLOGICAL
PROPERTIES OF WILD EVERGREEN SHRUB,
Solanum betaceum Cav. (SOLANACEAE)**

DISSERTATION

SUBMITTED TO KONGUNADU ARTS AND SCIENCE COLLEGE,
(AUTONOMOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY

IN PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE OF

MASTERS OF SCIENCE IN BOTANY

Submitted by

**Ms. S. AMIRTHA REG. No. 192BO003
II M.Sc., BOTANY**

Under the supervision of

Dr. K. KARTHIKA, M.Sc., Ph.D.
Assistant Professor of Botany
Kongunadu Arts and Science College



PG AND RESEARCH DEPARTMENT OF BOTANY

**KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)**

RE-ACCREDITED BY NAAC WITH "A+" GRADE (4th CYCLE)

COLLEGE OF EXCELLENCE (UGC)

COIMBATORE - 641 029,

TAMIL NADU, INDIA.

MARCH, 2021

**PHYTOCHEMICAL PROFILE AND BIOLOGICIL ACTIVITIES OF
TROPICAL RARE SMALL TREE *Capparis divaricata* (CAPPARACEAE)**

DISSERTATION

SUBMITTED TO KONGUNADU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

**AFFILIATED TO BHARATHIAR UNIVERSITY IN PARTIAL FULFILMENT FOR
THE AWARD OF THE DEGREE OF**

MASTER OF SCIENCE IN BOTANY

Submitted by

B. SUGANYA (192BO005)

II M. Sc., BOTANY

Under the Guidance of

Dr. K. KARTHIKA, M.Sc., Ph.D.

Assistant Professor of Botany

Kongunadu Arts and Science College (Autonomous)



**PG AND RESEARCH DEPARTMENT OF BOTANY
KONGUNADU ARTS AND SCIENCE COLLEGE**

(Autonomous)

Re-Accredited by NAAC with 'A+' grade (4th Cycle)

College of Excellence (UGC)

COIMBATORE – 641029

MARCH, 2021

**SURVEY OF WILD EDIBLE PLANTS USED BY KOTAS AND IRULA
TRIBALS OF KOTAGIRI, KOTAGIRI TALUK, THE NILGIRIS,
WESTERN GHATS OF TAMILNADU, INDIA**

DISSERTATION

A PROJECT WORK DONE

SUBMITTED TO KONGUNADU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

MASTER OF SCIENCE IN BOTANY

Submitted by

Ms. ROJA R. B.Sc., (Reg. No: 192BO006)

II M.Sc., Botany

Under the guidance of

Dr. D. MOORTHY M.Sc., M.Phil., B.Ed., Ph.D.,

Assistant Professor



PG AND RESEARCH DEPARTMENT OF BOTANY

KONGUNADU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

COLLEGE OF EXCELLENCE (UGC)

Redirected by NAAC with 'A' Grade 3.64 CGPA out of 4 (3rd Cycle)

COIMBATORE - 641 029

MARCH, 2021

**SURVEY OF WILD EDIBLE PLANTS USED BY ALUKURUMBA
TRIBES OF MANJOOR, KUNDAL TALUK, THENILGIRIS, WESTERN
GHATS OF TAMIL NADU, INDIA.**

DISSERTATION

SUBMITTED TO KONGUNADU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY IN PARTIAL

FULFILMENT FOR THE AWARD OF

THE DEGREE OF

MASTER OF SCIENCE IN BOTANY

Submitted by

MISS. V. VASINI (192BO007)

II-M.Sc., Botany

Under the guidance of

Dr. D. MOORTHY M.Sc., M.Phil, B.Ed., PhD

Assistant Professor of Botany

Department of Botany

Kongunadu Arts and Science College (Autonomous)1



PG AND RESEARCH DEPARTMENT OF BOTANY

KONGUNADU ARTS AND SCIENCE COLLEGE

(Autonomous)

Re-accredited by NAAC with "A+" Grade (4th Cycle)

COIMBATORE - 641 029

MARCH-2021

Certificate

**ANALYSIS OF CHEMICAL COMPOSITION OF LEAF ESSENTIAL
OIL OF *Ageratina adenophora* (SPRENG.) R.M. KING & H.ROB**

DISSERTATION

SUBMITTED TO

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY

**IN PARTIAL FULFILMENT OF REQUIREMENTS FOR THE AWARD OF THE
DEGREE OF**

MASTER OF SCIENCE IN BOTANY

Submitted By

RAMYA. S

(Reg.No.192BO008)

II M. Sc., BOTANY

Under the Guidance of

Dr. R. THIRUGNANASAMPANDAN, M.Sc., M. Phil., Ph.D. (SET)

Assistant Professor

Department of Botany

Kongunadu Arts and Science College (Autonomous)



PG AND RESEARCH DEPARTMENT OF BOTANY

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

College of Excellence (UGC)

Re-accredited by the NAAC with 'A+' Grade (4th cycle)

COIMBATORE- 641 029

MARCH - 2021

**ANTIOXIDANT AND ANTIBACTERIAL ACTIVITIES OF
ESSENTIAL OIL OF *Ageratina adenophora* (Spreng.) R.M.king
& H.Rob**

DISSERTATION

SUBMITTED TO KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY

IN PARTIAL FULFILMENT OF REQUIREMENTS FOR THE AWARD OF

THE DEGREE OF
MASTER OF SCIENCE IN BOTANY

Submitted By

J. PRINCY ANGELIN

(Reg.No.192BO009)

II M. Sc., BOTANY

Under the Guidance of

Dr. R. THIRUGNANASAMPANDAN, M.Sc., M. Phil., Ph.D. (SET)

Assistant Professor

Department of Botany

Kongunadu Arts and Science College (Autonomous)



PG AND RESEARCH DEPARTMENT OF BOTANY

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

College of Excellence (UGC)

Re-accredited by the NAAC with 'A⁺⁺' Grade

COIMBATORE- 641 029

MARCH - 2021

***IN VITRO* CYTOTOXIC POTENTIAL OF *ACACIA LEUCOPHLOEA*
(ROXB.) WILLD. AGAINST BREAST CANCER CELL,
MDA-MB-231**

Dissertation submitted to Kongunadu Arts and Science College affiliated to Bharathiar University, Coimbatore in partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN BOTANY

Submitted by

Mr. SYED ALI AKBAR S.I.

(Reg. No. 192BO010)

II M.Sc. Botany

Under the guidance of

Dr. K. SOWNDHARARAJAN

Assistant Professor of Botany



PG AND RESEARCH DEPARTMENT OF BOTANY
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COLLEGE OF EXCELLENCE (UGC)
Re-accredited by NAAC with 'A+' Grade (4th Cycle)
COIMBATORE – 641 029, TAMIL NADU

MARCH 2021

***IN VITRO* CYTOTOXIC EFFECT OF *ACACIA NILOTICA* (L.) DEL. ON
MDA-MB-231 HUMAN BREAST CANCER CELLS**

Dissertation submitted to Kongunadu Arts and Science College affiliated to Bharathiar University, Coimbatore in partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN BOTANY

Submitted by

Ms. BHARANI, B.

(Reg. No. 192BO011)

II M.Sc. Botany

Under the guidance of

Dr. K. SOWNDHARARAJAN

Assistant Professor of Botany



**PG AND RESEARCH DEPARTMENT OF BOTANY
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COLLEGE OF EXCELLENCE (UGC)**

Re-accredited by NAAC with 'A+' Grade (4th Cycle)

COIMBATORE – 641 029, TAMIL NADU

MARCH 2021

**SURVEY AND DOCUMENTATION OF PLANTS USED FOR
AROMATHERAPY IN THE NILGIRIS DISTRICT, TAMIL NADU, INDIA.**

DISSERTATION SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY IN PARTIAL
FULFILMENT FOR THE AWARD OF

THE DEGREE OF
MASTERS OF SCIENCE IN BOTANY

Submitted by
Miss. R. C. SARANYA
Register No. 192BO012
II M.Sc. BOTANY

Under the guidance of

Dr. H. ABDUL KAFFOOR M.Sc., M.Phil., Ph.D.
Assistant Professor
Department of Botany
Kongunadu Arts and Science College (Autonomous)



**PG AND RESEARCH DEPARTMENT OF BOTANY
KONGUNADU ARTS AND SCIENCE COLLEGE
(Autonomous)**

Re-accredited by NAAC with 'A+' Grade (4th Cycle)
College of Excellence (UGC)
Coimbatore – 641029.

March - 2021

**SURVEY AND DOCUMENTATION OF PLANTS USED FOR
AROMATHERAPY IN COIMBATORE DISTRICT,
TAMIL NADU, INDIA.**

DISSERTATION SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY IN PARTIAL
FULFILMENT FOR THE AWARD OF

THE DEGREE OF
MASTERS OF SCIENCE IN BOTANY

Submitted by

Miss. M.RUBAVATHIGOKILA

Register No. 192BO013

II M. Sc. BOTANY

Under the guidance of

Dr. H. ABDUL KAFFOOR M.Sc., M.Phil., Ph.D.

Assistant Professor

Department of Botany

Kongunadu Arts and Science College (Autonomous)



**PG AND RESEARCH DEPARTMENT OF BOTANY
KONGUNADU ARTS AND SCIENCE COLLEGE
(Autonomous)**

Re-accredited by NAAC with 'A+' Grade (4th Cycle)
College of Excellence (UGC)
Coimbatore – 641029.

March - 2021

**DOCUMENTAION OF ETHNOMEDICINAL AND ETHNOVETERINARY PLANTS
USED BY PALIYAR TRIBES, KURANGANI HILLS, WESTERN GHATS, THENI
DISTRICT, TAMIL NADU, INDIA**

DISSERTATION SUBMITTED TO KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY, IN PARTIAL FULFILMENT FOR THE
AWARD OF THE DEGREE OF

MASTERS OF SCIENCE IN BOTANY

Submitted by

B.ARIHARAN (192BO014)

Under the guidance of

Dr. P. REVATHI M.Sc., B.Ed., Ph.D.

Assistant professor

Department of Botany

Kongunadu Arts and Science College (Autonomous)

Coimbatore-641029



**PG AND RESEARCH DEPARTMENT OF BOTANY
KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)**

RE-ACCREDITED BY NAAC WITH "A" GRADE 3.64 CGPA OUT OF 4(3rd CYCLE)
COLLEGE OF EXCELLENCE (UGC)
COIMBATORE-641029

MARCH 2021

**EVALUATION OF PHYTOCHEMICAL CONSTITUENTS AND
ANTIOXIDANT PROPERTY OF UNDERUTILIZED MEDICINAL
PLANT *IMPATIENS MINOR* (DC.) BENNET**

DISSERTATION SUBMITTED TO

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILIATED TO BHARATHIAR UNIVERSITY, IN PARTIAL FULFILMENT FOR

THE AWARD OF THE DEGREE OF
MASTERS OF SCIENCE IN BOTANY

Submitted by

ARATHI R NAIR (192BO015)

Under the guidance of

Dr. P. REVATHI M.Sc., B.Ed., Ph.D.

Assistant professor

Department of Botany

Kongunadu Arts and Science College (Autonomous)

Coimbatore-641029



PG AND RESEARCH DEPARTMENT OF BOTANY

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

RE-ACCREDITED BY NAAC WITH "A⁺" GRADE (4th CYCLE)

COLLEGE OF EXCELLENCE (UGC)

COIMBATORE-641029

MARCH 2021

**IDENTIFICATION OF MEDICINAL PLANTS IN CHENGOTTUMALA HILLS,
KERALA AND DOCKING STUDIES OF AERVA LANATA (L.) Juss.
(AMARANTHACEAE) AGAINST SARS COVID -19 3CL^{Pro}**

DISSERTATION SUBMITTED TO KONGUNADU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

*Affiliated to Bharathiar University in Partial Fulfillment of the Requirement for the
award of the Degree of*

MASTER OF SCIENCE IN BOTANY

Submitted by

MISS.ASWANI (REG.NO 192BO016)

II M.Sc., Botany

Under the supervision of

Dr. R. REKKA, M.Sc., B.Ed., M.Phil. Ph.D

ASSISTANT PROFESSOR



PG and Research Department of Botany

Kongunadu Arts and Science College

(Autonomous)

RE-ACCREDITED BY NAAC WITH 'A+' GRADE (4th CYCLE)

COLLEGE OF EXCELLENCE (UGC)

COIMBATORE-641029

MARCH, 2021

**FLORA OF MEDICINAL PLANTS IN NIRAMKAITHAKOTTA HILLS,
KERALA AND DOCKING STUDIES OF ADIANTUM CAPILLUS-
VENERIS L. (PTERIDACEAE) AGAINST SARS COVID -19 3CL^{pro}**

DISSERTATION SUBMITTED TO KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)

*Affiliated to Bharathiar University in Partial Fulfillment of the Requirement for
the award of the Degree of*

MASTER OF SCIENCE IN BOTANY

Submitted by

MISS.DEVIKA K.C (REG.NO 192BO017)

II M.Sc. Botany

Under the supervision of

Dr. R. REKKA, M.Sc., B.Ed., M.Phil. Ph.D

ASSISTANT PROFESSOR



PG and Research Department of Botany

Kongunadu Arts and Science College

(Autonomous)

RE-ACCREDITED BY NAAC WITH "A⁺" GRADE (4th CYCLE)

COLLEGE OF EXCELLENCE (UGC)

COIMBATORE-641029

MARCH, 2021

ANATOMICAL STUDY OF DIFFERNT SECRETORY STRUCTURES IN SOME ANGIOSPERMIC PLANTS

DISSERTATION SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY IN PARTIAL
FULFILMENT FOR THE AWARD OF

THE DEGREE OF
MASTER OF SCIENCE IN BOTANY

Submitted by
ANJANA C.P
(REG. NO. 192BO018)
II M.Sc., BOTANY

UNDER THE GUIDANCE OF
Dr. M. PARVEEN M.Sc., M.Phil., Ph.D.
Assistant Professor, Department of Botany
Kongunadu Arts and Science College (Autonomous)



PG AND RESEARCH DEPARTMENT OF BOTANY
KONGUNADU ARTS AND SCIENCE COLLEGE
(Autonomous)

Re-accredited by NAAC with 'A+' Grade (4th Cycle)
College of Excellence (UGC)
Coimbatore – 641029.

MARCH - 2021

**COMPARITIVE STUDY OF INVASIVE PLANT SPECIES IN
MALAMPUZHA AND COIMBATORE DISTRICT IN RELATED TO
ANATOMICAL STUDIES**

DISSERTATION SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY IN PARTIAL
FULFILMENT FOR THE AWARD OF

THE DEGREE OF
MASTER OF SCIENCE IN BOTANY

Submitted by
VISMAYA A.P
(REG. NO. 192BO019)
II M.Sc., BOTANY

UNDER THE GUIDANCE OF
Dr. M. PARVEEN M.Sc., M.Phil., Ph.D.
Assistant Professor, Department of Botany
Kongunadu Arts and Science College (Autonomous)



**PG AND RESEARCH DEPARTMENT OF BOTANY
KONGUNADU ARTS AND SCIENCE COLLEGE**
(Autonomous)

Re-accredited by NAAC with 'A+' Grade (4th Cycle)
College of Excellence (UGC)
Coimbatore – 641029.

MARCH - 2021

**GENES RESPONSIBLE FOR FIBRE DEVELOPMENT UNDER
BIOTIC STRESS (BOLLWORM) IN COTTON**

DISSERTATION SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY IN PARTIAL
FULFILMENT FOR THE AWARD OF

THE DEGREE OF
MASTER OF SCIENCE IN BOTANY

Submitted by
KRISHNA K
(REG. NO. 192BO020)
II M.Sc. BOTANY

UNDER THE GUIDANCE OF
Dr. G. DHANDAPANI Ph.D.
Assistant Professor
PG & Research Department of Botany
Kongunadu Arts and Science College (Autonomous)



**PG AND RESEARCH DEPARTMENT OF BOTANY
KONGUNADU ARTS AND SCIENCE COLLEGE
(Autonomous)**

Re-accredited by NAAC with "A+" Grade (4th cycle)
College of Excellence (UGC)
Coimbatore – 641 029.

MARCH - 2021

**GENES RESPONSIBLE FOR FIBRE DEVELOPMENT UNDER
DROUGHT STRESS IN COTTON**

DISSERTATION SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOUS)

AFFILIATED TO BHARATHIAR UNIVERSITY, IN PARTIAL FULFILMENT
FOR THE AWARD OF

THE DEGREE OF
MASTER OF SCIENCE IN BOTANY

Submitted by
THEERTHA D
REG. NO. 192BO021
II M.Sc. BOTANY

Under the guidance of

Dr. G. DHANDAPANI, Ph.D.
Assistant professor
Department of Botany
Kongunadu Arts and Science College (Autonomous)
Coimbatore-641029



**PG AND RESEARCH DEPARTMENT OF BOTANY
KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)**

RE-ACCREDITED BY NAAC WITH "A+" GRADE (4th CYCLE)
COLLEGE OF EXCELLENCE (UGC)
COIMBATORE-641 029

MARCH 2021