

**IN VITRO CYTOTOXIC ACTIVITY OF A POLYHERBAL CRUDE EXTRACT
USING MCF-7 CELL LINE (BREAST CANCER) AND STUDY OF ITS ACTIVE
COMPOUNDS BINDING INTERACTION AGAINST CASPASE-3 PROTEIN**

**PROJECT REPORT 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 BIOCHEMISTRY**

**Submitted by
SUBRAMANI C
(Reg. No. 212BC001)**

**Under the Guidance of
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ASSISTANT PROFESSOR**



**DEPARTMENT OF BIOCHEMISTRY (PG & RESEARCH)
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COLLEGE OF EXCELLENCE (UGC)
RE-ACCREDITED BY NAAC WITH 'A'+ GRADE(4TH Cycle)
31ST RANK AMONG COLLEGES IN NIRF 202
G.N.MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA
APRIL-2023**

**EVALUATION OF *IN-VITRO* ANTIOXIDANT AND ANTICANCER ACTIVITY OF
HERBAL FORMULATION OF *Azadirachta indica* (A.) Juss AND *Allium sativum* (L.)
IN PROSTATE CANCER (PC-3)**

PROJECT REPORT SUBMITTED TO

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILIATED TO BHARATHIAR UNIVERSITY**

In partial fulfillment of requirements for the Award of the degree of

MASTER OF SCIENCE IN BIOCHEMISTRY

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KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

COLLEGE OF EXCELLENCE (UGC)

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

31ST RANK AMONG COLLEGES IN NIRF 2022

G.N MILLS POST, COIMBATORE-641029, TAMIL NADU, INDIA

APRIL-2023

**FORMULATION AND EVALUATION OF SKIN LOTION BY USING SAPONIN FROM
Acorus calamus.Linn TO TREAT PSORIASIS - A TRADITIONAL APPROACH**

PROJECT REPORT SUBMITTED TO

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

AFFILITATED TO BHARATHIAR UNIVERSITY

In partial fulfillment of requirements for the Award of the degree

MASTER OF SCIENCE IN BIOCHEMISTRY

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G.N MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA.

APRIL - 2023

**IN VITRO CYTOTOXIC ACTIVITY OF A POLYHERBAL CRUDE EXTRACT USING
HCT-116 (COLON CANCER) CELL LINE**

PROJECT REPORT SUBMITTED TO

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

AFFILITATED TO BHARATHIAR UNIVERSITY

In partial fulfillment of requirements for the Award of the degree

MASTER OF SCIENCE IN BIOCHEMISTRY

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KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

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31st Rank among Colleges in NIRF 2022

G.N MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA.

APRIL - 2023

CERTIFICATE

**MOLECULAR DOCKING AND PHARMACOKINETIC STUDIES OF
PHYTOCOMPOUNDS FROM SOUTHEAST ASIAN MEDICINAL TREE
(*Stelechocarpus burahol*) AS PROMISING INHIBITORY MEDIATOR
AGAINST MONKEYPOX VIRUS**

Project Dissertation

**In partial fulfillment of requirements for the Award of the degree of
MASTER OF SCIENCE IN BIOCHEMISTRY**

Sponsored by

TNSCST- Student project scheme- 2022-2023
(Tamil Nadu State Council for Science and Technology)

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KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
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AFFILIATED TO BHARATHIAR UNIVERSITY,
RE-ACCREDITED BY NAAC WITH 'A+ GRADE (4th Cycle)
31st RANK AMONG COLLEGES IN NIRF 2022
GN MILLS POST, COIMBATORE-641029,
TAMIL NADU, INDIA
APRIL 2023

PREPARATION AND EVALUATION OF HYDROGEL FORMULATION FROM
***Abutilon indicum* Linn -WOUND HEALING BANDAGE**

PROJECT REPORT SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILITATED TO BHARATHIAR UNIVERSITY

In partial fulfillment of requirements for the Award of the degree

MASTER OF SCIENCE IN BIOCHEMISTRY

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College of Excellence (UGC)

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

COLLEGE OF EXCELLENCE (UGC), 31st Rank among Colleges in NIRF 2022

COIMBATORE-641029, TAMIL NADU

G.N MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA.

APRIL - 2023

**Transformation, Over expression Optimization and Purification of
Intrinsically Disordered Human Nuclear Pore Complex Protein FG
Nucleoporin 98 in *E.coli***

PROJECT REPORT SUBMITTED TO

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

AFFILITATED TO BHARATHIAR UNIVERSITY

In partial fulfillment of requirements for the Award of the degree

MASTER OF SCIENCE IN BIOCHEMISTRY

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KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

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31st Rank among Colleges in NIRF 2022

G.N MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA.

APRIL - 2023

***In vitro* Culture and Maintenance of Liver Fluke *Fasciola gigantica* and
Purification of its Extretory-Secretory Products**

PROJECT REPORT SUBMITTED TO

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

AFFILITATED TO BHARATHIAR UNIVERSITY

In partial fulfillment of requirements for the Award of the degree

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31st Rank among Colleges in NIRF 2022

G.N MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA.

APRIL - 2023

INVITRO CYTOTOXIC ACTIVITY OF A 50% HYDROETHANOIC
EXTRACT USING H9C2 CARDIAC CELL LINE

PROJECT REPORT SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS).
AFFILIATED TO BHARATHIAR UNIVERSITY

In partial fulfilment of requirements for the Award of the degree of
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RE-ACCREDITED BY NAAC WITH 'A+ GRADE (4th Cycle)

31st RANK AMONG COLLEGES IN NIRF 202

G.N.MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA

APRIL-2023

CERTIFICATE

**TARGET DRUG DELIVERY VALIDATIONS THROUGH IN-VITRO
APPROACHES OF *Polianthes tuberosa* L. TUBERS AGAINST CERVICAL
CANCER CELL**

**PROJECT REPORT SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILITATED TO BHARATHIAR UNIVERSITY**

**In partial fulfillment of requirements for the Award of the degree
MASTER OF SCIENCE IN BIOCHEMISTRY**

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KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

COLLEGE OF EXCELLENCE (UGC)

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31st Rank among Colleges in NIRF 2022

G.N MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA.

APRIL - 2023

CERTIFICATE

**IN VITRO CYTOTOXIC ACTIVITY OF A POLYHERBAL CRUDE EXTRACT USING
A-549 (LUNG CANCER) CELL LINE**

**PROJECT REPORT SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILITATED TO BHARATHIAR UNIVERSITY**

In partial fulfillment of requirements for the Award of the degree

MASTER OF SCIENCE IN BIOCHEMISTRY

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KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

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31st Rank among Colleges in NIRF 2022

G.N MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA.

APRIL - 2023

CERVICAL CANCER EFFECTS OF COPPER NANOPARTICLES USING AQUEOUS EXTRACT OF *CYMBOPOGON CITRATES*.L

Project Report Submitted To

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS),
AFFILIATED TO BHARATHIAR UNIVERSITY
In partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN BIOCHEMISTRY

Submitted By

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PG AND RESEARCH DEPARTMENT OF BIOCHEMISTRY

(Autonomous institution affiliated to Bharathiar University)
Re-accredited by NAAC with 'A+' Grade 3.64 CGPA (4th Cycle)
College of Excellence (UGC)
Coimbatore- 641 029

APRIL 2023

**IN VITRO ANTICANCER ACTIVITY OF GREEN SYNTHESISED SILVER
NANOPARTICLES USING LEAVES EXTRACT OF *Momordica charantia* L. AGAINST
BREAST CANCER (MCF-7)**

PROJECT REPORT SUBMITTED TO

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

AFFILITATED TO BHARATHIAR UNIVERSITY

In partial fulfillment of requirements for the Award of the degree

MASTER OF SCIENCE IN BIOCHEMISTRY

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KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

COLLEGE OF EXCELLENCE (UGC)

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

31st Rank among Colleges in NIRF 2022

G.N MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA.

APRIL - 2023

DECLARATION

**MOLECULAR DOCKING STUDY OF CAFFEIC ACID TARGETTING
ACETYLCHOLINE ESTERASE – A GREEN APPROACH**

PROJECT REPORT SUMMITTED TO

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILITATED TO BHARATHIAR UNIVERSITY**

In partial fulfillment of requirements for the Award of the degree

MASTER OF SCIENCE IN BIOCHEMISTRY

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KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

COLLEGE OF EXCELLENCE (UGC)

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31st AMONG COLLEGES IN NIRF 2022

G.N MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA.

APRIL- 2023

GREEN SYNTHESIS OF SILVER NANOPARTICLES USING *Syzygium cumini* (L.) SEED EXTRACT AND ITS ANTICANCER ACTIVITY USING HELA CELL LINE

PROJECT REPORT SUBMITTED TO

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILIATED TO BHARATHIAR UNIVERSITY, COIMBATORE-
641029.**

**In partial fulfilment of requirements for the
Award of the degree of**

MASTER OF SCIENCE IN BIOCHEMISTRY

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**KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)
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RE-ACCREDITED BY NAAC WITH 'A+ GRADE (4th Cycle)

31st RANK AMONG COLLEGES IN NIRF 2022

COIMBATORE-641029, TAMILNADU, INDIA

April - 2023

Anticancer efficacy of green synthesized copper nanoparticles using fruit extract of *Pedaliump murex* Linn. Against Human Lung Cancer (A549)

PROJECT REPORT SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILITATED TO BHARATHIAR UNIVERSITY

In partial fulfillment of requirements for the Award of the degree

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KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

College of Excellence (UGC)

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31st Rank among Colleges in NIRF 2022

G.N MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA.

APRIL - 2023

**GREEN SYNTHESIS OF COPPER NANOPARTICLES USING
Pergularia daemia (F.) LEAF EXTRACT AND ITS ANTICANCER
ACTIVITY USING HELA CELL LINE**

PROJECT REPORT SUBMITTED TO

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILIATED TO BHARATHIAR UNIVERSITY, COIMBATORE-
641029.**

**In partial fulfilment of requirements for the
Award of the degree of**

MASTER OF SCIENCE IN BIOCHEMISTRY

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KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

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COIMBATORE-641029, TAMILNADU, INDIA

April - 2023

**MOLECULAR DOCKING AND PHARMACOKINETIC STUDIES OF
PHYTOCOMPOUNDS FROM SOUTHEAST ASIAN MEDICINAL TREE
(*Stelechocarpus burahol*) AS PROMISING INHIBITORY MEDIATOR
AGAINST MONKEYPOX VIRUS**

Project Dissertation

**In partial fulfillment of requirements for the Award of the degree of
MASTER OF SCIENCE IN BIOCHEMISTRY**

Sponsored by

**TNSCST- Student project scheme- 2022-2023
(Tamil Nadu State Council for Science and Technology)**

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**DEPARTMENT OF BIOCHEMISTRY (PG & RESEARCH)
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COLLEGE OF EXCELLENCE (UGC),
AFFILIATED TO BHARATHIAR UNIVERSITY,
RE-ACCREDITED BY NAAC WITH 'A+ GRADE (4th Cycle)
31st RANK AMONG COLLEGES IN NIRF 2022
GN MILLS POST, COIMBATORE-641029,
TAMIL NADU, INDIA
APRIL 2023**

DECLARATION

**GREEN SYNTHESIS OF COPPER NANOPARTICLES BY USING LEAF
EXTRACT OF *Hemigraphis colorata* L. AND IT'S ANTICANCER
ACTIVITY**

**PROJECT REPORT SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILIATED TO BHARATHIAR UNIVERSITY**

**In partial fulfilment of requirements for the
Award of the degree of
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COLLEGE OF EXCELLENCE (UGC)**

**G.N MILLS POST,
COIMBATORE- 641 029, TAMILNADU, INDIA**

APRIL-2023

**BIOCHEMICAL STUDIES OF *Elettaria cardamomum*(L) maton POD ON
ITS *IN VITRO* ANTI-MICROBIAL, ANTI-OXIDANT AND
ANTICANCER PROPERTIES**

**PROJECT REPORT 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 BIOCHEMISTRY**

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**DEPARTMENT OF BIOCHEMISTRY (PG & RESEARCH)
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COLLEGE OF EXCELLENCE (UGC)
G.N.MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA
APRIL-2023**

DRUG DELIVERY OF COPPER NANOPARTICAL IN
chrysanthemum x morifolium FLOWER EXTRACT

PROJECT REPORT SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILIATED TO BHARATHIAR UNIVERSITY
IN PARTIAL FULFILMENT OF REQUIREMENTS FOR THE
AWARD OF THE DEGREE OF
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PG & RESEARCH DEPARTMENT OF BIOCHEMISTRY
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G.N MILLS POST, COIMBATORE- 641 029
TAMILNADU, INDIA

APRIL-2023

**IN VITRO STUDY OF ANTICANCER ACTIVITY OF SILVER NANOPARTICLES
SYNTHESIZED FROM *Nigella sativa* (L.) SEED ON A549 LUNG CANCER CELL
LINE.**

**PROJECT REPORT SUBMITTED TO
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILIATED TO BHARATHIAR UNIVERSITY**

**In partial fulfilment of requirements for the
Award of the degree of
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APRIL-2023**