

***IN-VITRO* ANTIOXIDANT, FREE RADICAL SCAVENGING ACTIVITY,
ANTIMICROBIAL ACTIVITY OF A PROPOLIS AND BINDING INTERACTION
OF MELITTIN AGAINST CDK 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

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Under the Guidance of

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KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS).
COLLEGE OF EXCELLENCE (UGC).
G.N.MILLS POST, COIMBATORE- 641 029, TAMILNADU, INDIA
MARCH-2024**

**FABRICATION AND CHARACTERIZATION OF QUANTUM
DOTS TO ATTENUATE BREAST CANCER MCF7 CELLS
- *in vitro* APPORACH**

**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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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH – 2024.

CERTIFICATE

**ENHANCED POTENTIAL OF MICROENCAPSULATED
POLYHERBAL EXTRACT IN CELLULOSIC NONWOVEN
FABRIC FOR TARGETING SKIN DISEASE.**

**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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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH – 2024.

**A PILOT STUDY IN PURIFICATION OF DRINKING WATER IN
COIMBATORE RURAL AREA BY STRYCHNOS POTATORUM SEED
WATER.**

**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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G.N Mills Post, Coimbatore- 641029,

Tamilnadu, India.

MARCH – 2024.

CERTIFICATE

**EVALUATION OF *IN- VITRO* ANTIOXIDANT, ANTIMICROBIAL AND
CYTOTOXIC ACTIVITY OF *CALOTROPIS PROCERA* ROOT AGAINST
LARYNGEAL CANCER (*HEP2*) CELL LINE.**

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

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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH – 2024.

**A NOVEL EUTECTIC SOLVENT-HYDROGEL FOR USING *DRYNARIA QUERIFOLIA*
TOPICAL MANAGEMENT OF RHEUMATOID ARTHRITIS**

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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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH- 2024.

IN-VITRO EVALUATION OF ANTIOXIDANT, ANTI-DIABETIC ACTIVITY OF *JUSTICA ADHATODA* L LEAF EXTRACT

PROJECT REPORT SUBMITTED TO

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

Affiliated to Bharathiar University

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29th Rank among Colleges in NIRF 2023

G.N Mills Post, Coimbatore- 641029,

Tamilnadu, India.

MARCH – 2024.

**IN VITRO EVALUATION OF PHYTOCHEMICAL ANALYSIS AND ANTICANCER
ACTIVITY OF *ENICOSTEMMA LITTORALE* BLUME AGAINST CELL LINE HepG2**

**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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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH – 2024.

“DAHLIA INFUSED ORGANIC LIP BALM”

PROJECT REPORT SUBMITTED TO

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH – 2024.

**IN-VITRO ANTICANCER ACTIVITY OF GREEN SYNTHESISED
SILVER NANOPARTICLES FROM *Annona muricata* L. LEAVES
AGAINST LUNG CANCER CELL LINE (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

MASTER OF SCIENCE IN BIOCHEMISTRY

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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH – 2024.

**BIOCHEMICAL STUDIES OF ANTI-OXIDANT AND ANTI-
INFLAMMATORY ACTIVITIES OF GOLD NANOPARTICLES
SYNTHESIZED USING *Vitis vinifera* SEED-AN *In vitro* 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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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH – 2024.

***In-silico and in-vitro* approaches of therapeutic components in *Syzygium Cumini* seeds against breast cancer (MCF 7) cells**

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

AFFILITATED TO BHARATHIAR UNIVERSITY

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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH - 2024

**PREPARATION AND CHARACTERIZATION OF NOVEL CREAM WITH
ETHANOL EXTRACT FROM *ILICUM VERUM* WOUND HEALING IN
DIABETIC FOOT ULCER**

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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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH – 2024.

Luteolin: An operative molecule against triple negative breast cancer

– *in vitro* and *in silico* model

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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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH – 2024.

**INVITRO EVALUATION OF ANTIOXIDANT AND ANTIDIABETIC
ACTIVITY OF *ERYTHRINA VARIEGATA* L LEAF EXTRACT.**

PROJECT REPORT SUBMITTED TO

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
AFFILITATED TO BHARATHIAR UNIVERSITY In partial
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G.N Mills Post, Coimbatore- 641029,
Tamilnadu, India.**

MARCH – 2024.

abrication of greener reduction of gold nanoparticles mediated by clove (*Syzygium aromaticum*): An *in vitro* approaches against cervical cancer

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
MARCH-2024**

FORMULATION AND EVALUATION OF POLY HERBAL HAND WASH

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- 641029, TAMILNADU, INDIA.

MARCH - 2024

**PHARMACOKINETIC AND MOLECULAR DOCKING STUDY OF ISOLATED
PHYTO-COMPOUNDS FROM INDIAN MEDICINAL PLANT (*CALOTROPIS
PROCERA*) – AN INHIBITORY APPROACH AGAINST PHOSPHOLIPASE A2
(SNAKE VENOM)**

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

MARCH-2024

**APOPTOSIS INDUCTION OF *CENTELLA ASIATICA* (L) ON
COLORECTAL CANCER HT-29 CELL LINE.**

PROJECT REPORT SUBMITTED TO

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

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In partial fulfillment of requirements for the Award of the degree

MASTER OF SCIENCE IN BIOCHEMISTRY

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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH – 2024.

**GREEN SYNTHESIS OF SILVER NANOPARTICLES USING FLOWER EXTRACT
Clitoria ternatea L. In vitro EVALUATION OF ITS PHARMACEUTICAL ACTIVITIES
AND ANTICANCER ACTIVITY ON OVARIAN CANCER PA-1 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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G.N MILLS POST, COIMBATORE-641029, TAMIL NADU, INDIA.

MARCH-2024

**IN-VITRO ANTIOXIDENT, ANTIMICROBIAL & CYTOTOXIC ACTIVITY
OF A POLYHERBAL CRUDE EXTRACT AGAINST
CERVICAL CANCER (*HELA*) 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

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KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

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29th Rank among Colleges in NIRF 2023

G.N MILLS POST, COIMBATORE- 641029, TAMILNADU, INDIA.

MARCH – 2024.

**Green synthesis on silver nanoparticles using lettuce (*Lactuca Sativa.L*) spectral
characterization *in vitro* evaluation of its pharmaceutical activities and anticancer
activity on prostate cancer PC-3 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

MASTER OF SCIENCE IN BIOCHEMISTRY

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

MARCH-2024

**IN-VITRO ANTIOXIDANT, ANTIMICROBIAL AND ITS CYTOTOXIC
ACTIVITY OF A *PROPOLIS* USING BREAST CANCER (MCF-7) CELL LINE**

PROJECT REPORT SUBMITTED TO

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) AFFILIATED TO
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In partial fulfilment of requirements for the Award of the degree of

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29*Rank among college in NIRF 2023

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

MARCH-2024

CERTIFICATE

This is certified that the dissertation entitled "**IN-VITRO ANTI-CANCER ACTIVITY OF ENOIC ACID DERIVATIVE ON BREAST CANCER CELLS**" submitted by **SHAFEEQ MUNAVIR M.P (222BC019)** to the Department of Biochemistry, Kongunadu Arts and Science College (Autonomous), Affiliated to Bharathiyar University, in partial fulfillment of the requirement for the **Degree of Master of Science in Biochemistry** is a record of bonafide and original research work carried out by her during the period of 2023-2024 of her study, under the supervision and guidance of **Dr.M.SANTHOSHKUMAR., M.Sc., Ph.D., Assistant Professor, Department of Biochemistry, Kongunadu Arts and Science College (Autonomous), Coimbatore-641 029.** The results embodied in this dissertation are new and has not been submitted for the award of any Degree/Diploma/Associate/Fellowship or any other similar title to any candidate.

Place: **COIMBATORE**

Date: **27.03.2024**

M. Santhosh Kumar

Signature of the Guide

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Received 27/3/24

Counter signed by



Head
Department of Biochemistry
(Research)
Head of the Department
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27/3/24

Signature of the Principal

PRINCIPAL
Kongunadu Arts & Science College
COIMBATORE

Submitted for the Viva-Voce examination held on **22/04/24** at Kongunadu Arts and Science College (Autonomous), Coimbatore-641029.

Examiners

1.

Dr. I. L. J. 22/4/24
(**Dr. I. L. J.**)

2.

M. Santhosh Kumar 22/4/24
(**Dr. M. SANTHOSHKUMAR**)

CERTIFICATE

This is certified that the dissertation entitled "Graphene oxide nickel nanowire composite for the targeted and sustained delivery of *Semecarpus anacardium*- the herbal drug for breast cancer (MCF-7)" submitted by **SNEHA. R (222BC005)** to the Department of Biochemistry, Kongunadu Arts and Science College (Autonomous), Affiliated to Bharathiyar University, in partial fulfillment of the requirement for the **Degree of Master of Science in Biochemistry** is a record of bonafide and original research work carried out by his during the period of 2023-2024 of his study, under the supervision and guidance of **Dr. M. SANTHOSHKUMAR, M.Sc., Ph.D., (SET), B.Ed., PGDCRP., PGDBI., Assistant professor**, Department of Biochemistry, Kongunadu Arts and Science College (Autonomous), Coimbatore-641 029. The results embodied in this dissertation is new and has not been submitted for the award of any Degree/Diploma/Associate/Fellowship or any other similar title to any candidate.

Place: Coimbatore

Date: 27/3/24

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Signature of the Guide

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Submitted for the Viva-Voce examination held on 28/4/2024 at Kongunadu Arts and Science College (Autonomous), Coimbatore-641029.

Examiners

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(Dr. G. LAKSHMIKUMAR)

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(Dr. M. SANTHOSHKUMAR)

CERTIFICATE

This is certified that the dissertation entitled "**Smart nanocarrier: Graphene oxide decorated with nickel nanowire for optimized delivery of herbal medicinal agent 'Plumbago Indica' for breast cancer (MCF-7)**" submitted by **KAVYA. M (222BC004)** to the Department of Biochemistry, Kongunadu Arts and Science College (Autonomous), Affiliated to Bharathiyar University, in partial fulfillment of the requirement for the **Degree of Master of Science in Biochemistry** is a record of bonafide and original research work carried out by his during the period of 2023-2024 of his study, under the supervision and guidance of **Dr. M. SANTHOSHKUMAR., M.Sc., Ph.D., (SET)., B.Ed., PGDCRP., PGDBI., Assistant Professor, Department of Biochemistry, Kongunadu Arts and Science College (Autonomous), Coimbatore-641 029.** The results embodied in this dissertation is new and has not been submitted for the award of any Degree/Diploma/Associate/Fellowship or any other similar title to any candidate.

Place: Coimbatore

Date: 27/03/2024

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CERTIFICATE

This is certified that the dissertation entitled "IN VITRO ANTICANCER ACTIVITY OF PICOLINATE DERIVATIVE COMPOUND ON BREAST CANCER CELLS" submitted by DHILNA SHERIN KC (222BC010) to the Department of Biochemistry, Kongunadu Arts and Science College (Autonomous), Affiliated to Bharathiyar University, in partial fulfillment of the requirement for the Degree of Master of Science in Biochemistry is a record of bonafide and original research work carried out by his during the period of 2023-2024 of her study, under the supervision and guidance of Dr. M.SANTHOSHKUMAR., M.Sc., Ph.D., Assistant Professor, Department of Biochemistry (Aided) Kongunadu Arts and Science College (Autonomous), Coimbatore-641 029. The result embodied in this dissertation are new and has not been submitted for the award of any Degree/Diploma/Associate/Fellowship or any other similar title to any candidate.

Place: coimbatore

Date: 27-03-2024

Counter signed by

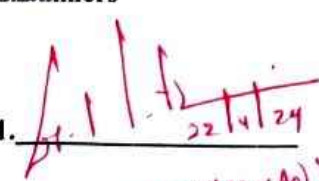

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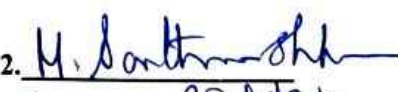

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