

**PHYTOSYNTHESIS OF COPPER OXIDE NANOPARTICLES
AND ITS BIOLOGICAL APPLICATIONS**

Thesis submitted to the Bharathiar University
in partial fulfillment of the requirements for the award of the degree of

DOCTOR OF PHILOSOPHY IN BIOTECHNOLOGY

Submitted by

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Under the Guidance of

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PG AND RESEARCH DEPARTMENT OF BIOTECHNOLOGY

KONGUNADU ARTS AND SCIENCE COLLEGE

[Autonomous, Re-accredited by NAAC with 'A' Grade CGPA 3.64 [3rd Cycle]

College of Excellence (UGC)

COIMBATORE - 641 029

TAMILNADU, INDIA

AUGUST 2018



Characterization of environmental *Aeromonas* spp. and *in-vivo* evaluation of the
bacterial virulent gene and host immune genes in *Cirrhinus mrigala* (Hamilton)
supplemented with Neem diet

Thesis submitted to Bharathiar University in partial fulfillment of the
Requirement for the award of the degree of

DOCTOR OF PHILOSOPHY
in

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August 2017



**BIOSYNTHESIS AND CHARACTERIZATION OF AMONABACTIN,
AS A NOVEL SERIES OF SIDEROPHORES IN HETEROGENIC
Aeromonas hydrophila ISOLATED FROM CLINICAL AND
ENVIRONMENTAL SAMPLES**

Thesis submitted to the Bharathiar University in
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DOCTOR OF PHILOSOPHY
in
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College of Excellence (UGC)

COIMBATORE – 641 029

TAMIL NADU, INDIA

DECEMBER 2017



**SYNTHESIS, CHARACTERIZATION OF GOLD NANOPARTICLES FROM
GANODERMA LUCIDUM AND ITS ANTI CANCER ACTIVITY,
ABCB1 GENE EXPRESSION ON CHEMORESISTANT MCF-7/DOX CELLS**

**Thesis submitted to the Bharathiar University in partial fulfilments of the
Requirements for the award of the Degree of**

DOCTOR OF PHILOSOPHY

IN

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Re - Accredited by NAAC with 'A' grade - 3.64 CGPA out of 4 (95%)
College of excellence (UGC) and Star College (DBT)
Coimbatore - 641 029, TamilNadu,
INDIA

AUGUST - 2017



**EFFECT OF *Moringa concanensis* Nimmo LEAF EXTRACT AGAINST
HEPATOCELLULAR CARCINOMA IN DIETHYL NITROSAMINE
INDUCED MALE WISTAR RATS**

THESIS SUBMITTED TO THE BHARATHIAR UNIVERSITY IN PARTIAL
FULFILLMENT OF THE REQUIREMENTS FOR THE
AWARD OF THE DEGREE OF

DOCTOR OF PHILOSOPHY

IN

BIOTECHNOLOGY

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COIMBATORE - 641 029.

Tamilnadu, India.

August- 2017



**GREEN SYNTHESIS, CHARACTERIZATION AND BIOMEDICAL
APPLICATIONS OF CERIUM OXIDE AND HYBRID
CHITOSAN-CERIUM OXIDE NANOPARTICLES**

THESIS SUBMITTED TO THE BHARATHIAR UNIVERSITY IN PARTIAL FULFILLMENT OF
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COIMBATORE - 641 029

Tamilnadu, India

November- 2017



**PRODUCTION AND CHARACTERIZATION OF BACTERIAL BIOFILM
AND ITS EFFECTIVE INHIBITION BY GREEN SYNTHESIZED
COPPER OXIDE NANOPARTICLES**

Thesis submitted to the Bharathiar University in partial fulfillment of the requirements
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in
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COIMBATORE – 641 029.

TAMILNADU, INDIA.

DECEMBER 2017



**MORPHOLOGICAL, PHYSIOCHEMICAL AND MOLECULAR
ROLES OF SALICYLIC ACID IN AMELIORATING SALT
STRESS IN *Solanum melongena* L.**

Thesis Submitted to the Bharathiar University in partial fulfillment
of the requirements for the award of the degree of
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COIMBATORE - 641 029

TAMILNADU, INDIA

JANUARY 2018



Phytopharmaceutical and *In Vitro* Propagation Studies in

***Isodon wightii* (Benth) H. Hara**

THESIS

Submitted to the Bharathiar University
in partial fulfillment of the requirements for the award of the degree of

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