

Faculty Profile of Dr. N. Geetha



Dr. N. Geetha
Professor
Department of Botany

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Research Area

- Plant Biotechnology and Plant tissue culture
- Nanobiotechnology and Plant bio active compounds
- Phytomedicine and Phytoremediation
- Plant genetic engineering

Education & Career

Education

Ph.D.

Subject : Botany

Institution : Bharathidasan University, Tiruchirapalli

Affiliated University : Bharathidasan University

Year of Award : 1996

M.Phil.,

Subject : Life Sciences

Institution : Bharathidasan University, Tiruchirapalli

Affiliated University : Bharathidasan University

Year of Award : 1992

M.Sc.,

Subject: Botany

Institution : Holy Cross College, Tiruchirapalli

Affiliated University : Bharathidasan University

Year of Award : 1989

B.Sc.,

Subject: Botany

Institution: Seetha Lakshmi Ramasami College, Tiruchirapalli

Affiliated University: Bharathidasan University

Year of Award: 1987

Career**At Bharathiar University (Reverse Order)**

Professor : 2016 to Till Date

Past Experience

Professor & Head : 2010 to 2016 at Mother Teresa Women's University,
Kodaikanal

Scientist : 1999 to 2010 at Rubber Research Institute of India

Lecturer : 1995 to 1997 at Cheran Arts and Science College

Awards

Academic Awards

Sl. No.: 1

Name : Talented Biotechnologist Award, 2011

Institution : IIM, University of Colombo, Sri Lanka

Purpose of Award : Outstanding contribution in Biotechnology

Sl. No.: 2

Name : Best Paper Award 2012

Institution : Planetary Scientific Research Centre, Thailand

Purpose of Award : Best session paper

Sl. No.: 3

Name : NanoBio 2013 Appreciation Award

Institution : Anna University

Purpose of Award : Chair

Sl. No.: 4

Name : Best Paper Award 1 prize 2013

Institution : Periyar University

Purpose of Award : Best paper

Sl. No.: 5

Name : Bharat Seva Ratan Gold Medal Award 2013

Institution : Global Economic Progress & Research Association

Purpose of Award : Intellectual Excellence

Membership

Membership in Professional Bodies

Sl No.: 1

Organization : Society for biology and biotechnology

Type of Membership : Life member

Period : 2000 onwards

Sl No.: 2

Organization : Indian society for education and allied sciences

Type of Membership : Life member

Period : 2010 onwards

SI No.: 3

Organization : Indian society of agriculture biochemist

Type of Membership : Life member

Period : 2010 onwards

SI No.: 4

Organization : National academy of biological science

Type of Membership : Life member

Period : 2017 onwards

Membership in Academic Bodies

SI No.: 1

Organization : APWACW,Palani,;JACW,Periyakulam,NSCW,Theni;MTWU College,Kodaikanal,Periyar University.

Type of Membership : Chairman/Member, Board of Studies

Period : 2010 to 2016

SI No.: 2

Organization : MTWU, Bharathidasan University, Periyar University, Gandigram Rural Institute

Type of Membership : Chairman/Member,Question paper setting Board/Evaluation

Period : 2010 to 2016

SI No.: 3

Organization : Bharathidasan University,Goa University,MTWU

Type of Membership : Chairman/Member, Selection Committee

Period : 2010 to 2016

SI No.: 4

Organization : MTWU,JACW,APWACW,Bharathidasan University,Periyar University

Type of Membership : Chairman/Member, Experts Committee

Period : 2010 to 2016

SI No.: 5

Organization : JACW, APWACW, MTWU

Type of Membership : Member Academic Council

Period : 2010 to 2016

SI No.: 6

Organization : MTWU,Kodaikanal

Type of Membership : Senate Member

Period : 2010 to 2016

SI No.: 7

Organization : MTWU,Kodaikanal

Type of Membership : Syndicate Member

Period : 2016 to 2016 November 30th

SI No.: 8

Organization : Bharathidasan University,Bharathiar University,Periyar University,M.S University,M.G. University

Type of Membership : External Examiner for Ph.D,M.Phil,M.Sc,Courses

Period : 2010 to 2016 November 30th

SI No.: 9

Organization : Periyar University,Bharathiar university,AU,VIT,Gandigram Rural Institute

Type of Membership : Doctoral committee member

Period : 2010 to 2016

SI No.: 10

Organization : MTWU,Bharathiar University,Bharathidasan University

Type of Membership : Expert member for Faculty selection/promotion committee/

Period : 2010 to 2016 November 30th

SI No.: 11

Organization : MTWU

Type of Membership : Chief Superintendent-Distance and Regular examinations

Period : 2010 to 2016 November 30th

Sl No.: 12

Organization : MTWU Affiliated Colleges

Type of Membership : Expert for College affiliation committee

Period : 2010 to 2016 November 30th

Visits

Sl. No.: 1

Countries Vistes : Thailand

Duration of Visit : 2 days

Month and Year : September,2012

Purpose of Visit : Paper presentation on international conference

Sl. No.: 2

Countries Vistes : USA

Duration of Visit : 23 days

Month and Year : April-May,2016

Purpose of Visit : Learn advanced techniques in Nanotechnology

Collaborators

Others

Projects

Funded Projects(National Level)

- [Ongoing - 01](#)
 - [Completed - 03](#)
-

1. UGC-MRP

Title of the project : In Vitro clonal propagation based conservation method and DNA finger printing analysis of endangered medicinal plants from Kodaikanal.

Funding Agency : UGC-MRP

Amount : Rs.8,91,800lakhs

Duration : 2011-2014

2. DST-CURIE

Title of the project : Consolidation of university research for innovation and excellence in women universities

Funding Agency : DST-CURIE

Amount : Rs.3.09 crores

Duration : 2011-2016

3. UGC-NON SAP

Title of the project : Strengthening infrastructure facility

Funding Agency : UGC-NON SAP

Amount : Rs. 40 Lakhs

Duration : 2011-2016

4. DBT-MRP

Title of the project : Elucidation of molecular mechanism for the lack of latex biosynthesis during the onset of tapping panel dryness syndrome in high yielding rubber clones

Funding Agency : DBT-MRP

Amount : Rs.55.6 lakhs

Duration : 2012-2016

5. DST-FIST

Title of the project : Strengthening the PG teaching and research facilities

Funding Agency : DST-FIST

Amount : Rs.50 Lakhs

Duration : 2014-2019

1. Funding Agency Name

Title of the project : ' *****'

Funding Agency : *****

Amount : Rs. *****

Duration : *****

Consultancy Projects

- [Ongoing](#)
- [Completed](#)

Research Guidance

- [Post-Doc](#)
- [Ph.D.](#)
- [M.Phil.](#)
- [M.Sc.,](#)

ONGOING

Candidate Name

Title of the Thesis : *****

Date of Submission:

Date of Award:

AWARDED

Ph.D. Research

Sl.No.: 1

Name of the candidate : T.S.Geetha

Title of the thesis : Pharmacognostic evaluation and assessment of anticancer potential using plant acetone extract, plant mediated silver nanoparicles and isolated compounds of Cymbopogan citratus (DC) Stapf leaves

Year : 2016

Sl.No.: 2

Name of the candidate : K.Harini

Title of the thesis : Evaluation of antioxidant, antidiabetic and wound healing potential of Chromolaena odorata(L.) King and Robinson using in vitro and in vivo models

Year : 2016

Sl.No.: 3

Name of the candidate : C.M. Archana

Title of the thesis : Protective effect of methanolic leaf extract of

Chromolaena odorata(L.) King and Robinson against experimentally induced inflammation bowel disease

Year : 2016

Sl.No.: 4

Name of the candidate : J.Jerlin Showmya

Title of the thesis : Pharmacognostic evaluation and anticancer activity of fruit peel of Citrus reticulata Blanco

Year : 2017

Sl.No.: 5

Name of the candidate : D.Subha

Title of the thesis : Cardioprotective effect of Tanacetum parthenium L. on isopreterenol induced myocardial infarction in rats

Year : 2017

Sl.No.: 6

Name of the candidate : M.Pradeepa

Title of the thesis : Preparation and characterization of wound dressing material containing phytosynthesized silver nanoparticles

Year : 2017

M.Phil. Research

Sl.No.: 1

Name of the candidate : S. Abitha Blessy

Title of the thesis : Evaluation of biochemical and molecular characteristics of Calotropis gigantea (R.Br) in a soil contaminated with heavy metal

Year : 2011

Sl.No.: 2

Name of the candidate : M.Devika

Title of the thesis : Influence of environmental factors on biochemical characteristics of Musa acuminata colla growing in three different localities of kodaikanal

Year : 2011

Sl.No.: 3

Name of the candidate : N.Chandralega

Title of the thesis : Genetic diversity in *Rosmarinus officinalis* L. assessed through RAPD analysis

Year : 2011

Sl.No.: 4

Name of the candidate : K.Harini

Title of the thesis : Synthesis of silver nanoparticles using *Trigonella Foenum-Gracecum* and its antibacterial activity using clinical pathogens

Year : 2011

Sl.No.: 5

Name of the candidate : D.Subha

Title of the thesis : Genetic analysis of *Tanacetum parthenium* L. using RAPD markers

Year : 2011

Sl.No.: 6

Name of the candidate : J.Jerlin Showmya

Title of the thesis : Green synthesis of silver nanoparticles using *Foeniculum vulgare* and its bacterial activity

Year : 2011

Sl.No.: 7

Name of the candidate : J. Sinduja

Title of the thesis : Comparison studies of pharmacopial analytical method and microbial assay

Year : 2011

Sl.No.: 8

Name of the candidate : K.G.Ahila

Title of the thesis : Phytoremediation of dyes and phytosynthesis of silver nanoparticles using *Eichornia crassipes* leaves

Year : 2012

Sl.No.: 9

Name of the candidate : M.Pradeepa

Title of the thesis : Identification of potential phytochemicals for various diseases through molecular docking and phytosynthesis of silver nanoparticles in

Avena sativa L.

Year : 2012

Sl.No.:10

Name of the candidate : A.Abinaya

Title of the thesis : A comparative account on molecular docking analysis against aldose reductase(an diabetics inducer) using phytochemicals of *Passiflora edulis* and *Foeniculum vulgare*

Year : 2013

Sl.No.: 11

Name of the candidate : V.Akila

Title of the thesis : Physiochemical analysis and microbial decolorization of textile effluent

Year : 2013

Sl.No.:12

Name of the candidate : M.Gomathi

Title of the thesis : The effect of chemical fertilizers and biofertilizers on growth and yield of *Daucus carota* L. (carrot)

Year : 2013

Sl.No.: 13

Name of the candidate : R.Punnagai Selvi

Title of the thesis : Genetic diversity in *Cymbopogon citratus* L. assessed through RAPD analysis

Year : 2013

Sl.No.: 14

Name of the candidate : G.Sathya

Title of the thesis : In vitro and in silico analysis to determine the potential phytochemicals of *Trachyspermum ammi* L. seeds against glycolate oxidase and urease receptors-urolithiasis inducers

Year : 2013

Sl.No.: 15

Name of the candidate : B.Baby Subaitha

Title of the thesis : Chitosan iron oxide hybrid composite for enhanced dye degradation of leaf extract of *Pelargonium graveolens*

Year : 2014

Sl.No.: 16

Name of the candidate : P.Florence

Title of the thesis : Evaluation of nutritional, vitamin and antioxidant profiles of Cymbopogon citratus (DC) stapf, leaves

Year : 2014

Sl.No.: 17

Name of the candidate : N.Selvapriya

Title of the thesis : Elucidation of bactericidal effect incurred bu chitosan and identification of unknown bacteria using 16S rDNA sequence analysis

Year : 2014

Sl.No.: 18

Name of the candidate : P.Nisharani

Title of the thesis : Isolation and characterization of oxalate utilizing bacteria using 16S rDNA sequence analysis

Year : 2014

Sl.No.: 19

Name of the candidate : Mary Joseph

Title of the thesis : Microwave assisted synthesis of silver nanoparticles and evaluation of in vitro anticancer property of tree tomato fruit extract (Solanum betaceum D. Hayes and Sons)

Year : 2015

Sl.No.: 20

Name of the candidate : A.Sheeba

Title of the thesis : Synthesis of nanoparticles and evaluation of antimicrobial activity of Bracken fern (Pteridium aquilinum L. Kuhn. Var. latiusculum

Year : 2016

M.Phil. at Bharathiar University, Coimbatore-46, TN

Sl.No.: 21

Name of the candidate : R.Priyanga

Title of the thesis : Evaluation of in vitro anti-urolithiatic potential of Clitoria ternatea L.blue flowered leaves using extract based fractions

Year : 2018

Sl.No.: 22

Name of the candidate : G.Vaishnavi

Title of the thesis : Bioremediation and growth enhancing potential of endophytic bacteria isolated from shoot and root tissues of Hibiscus vitifolius L.

Year : 2019

PG Research (Bharathiar University)

Sl.No.: 1

Name of the candidate : S. Gokul Brindha

Title of the thesis : Evaluation of antibiofilm activity of green synthesized iron and silver nanoparticles against Pseudomonas aeruginosa and Staphylococcus epidermidis

Year : 2018

Sl.No.: 2

Name of the candidate : D. Elanthendral

Title of the thesis : Antibiofilm activity of essential oil isolated from Vitex negundo L.

Year : 2018

Sl.No.: 3

Name of the candidate : E. Anjana Ramachandran

Title of the thesis : Degradation of methylene blue using silver nanoparticles synthesized from Cynodon dactylon (L.) Pers. Leaf aqueous extract

Year : 2019

Sl.No.: 4

Name of the candidate : S. Kirtana

Title of the thesis : Biotic elicitation based enhancement of some antioxidant and secondary metabolites in Sauropus androgynus (L.) Merr.

Year : 2019

Sl.No.: 1

Name of the candidate : Dr. P.Manonmani

Title of the thesis : Colloidal metal nanoparticles and their biological applications

Year : 2013, 2014

Sl.No.: 2

Name of the candidate : Dr. S. Malar

Title of the thesis : Evaluation on biologically synthesized chitosan nanoparticles (CS/NPs) on plant growth, heavy metals accumulation and genotoxicity in *Sesbania grandiflora* seedlings

Year : 2019

Research Publication

- [International](#)
- [National](#)
- [Patents](#)
- [Conferences](#)
- [Books/Chapters](#)
- [Database](#)

2021

Number. Title
Author Names
Journal Name

2020

Number. Title
Author Names
Journal Name

2019-2004

Number. Title
Author Names
Journal Name

Alumini Reflections: