

Faculty Profile of Dr. P. Premasudha



Dr. P. Premasudha
Assistant Professor
Department of Nanoscience and Technology

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Research Area

- Biocompounds and its applications
- Nanobiotechnology - Focus on Biomedical and health care applications

Education & Career

Education

Ph. D.

Subject : Microbiology

Institution : PSG College of Arts & Science

Affiliated University : Bharathiar University

Year of Award : 2016

M.Phil.,

Subject : Life Science

Institution : Manonmaniam Sundaranar University, Tirunelveli

Affiliated University : Manonmaniam Sundaranar University

Year of Award : 2003

M.B.A.

Subject: Human Resource Management

Institution : Bharathiar University

Affiliated University : Bharathiar University

Year of Award : 2012

M. Sc.,

Subject: Applied Microbiology

Institution : Sengunthar College of Arts and Science, Tiruchengode

Affiliated University : Periyar University

Year of Award : 2000

B. Sc.,

Subject: Microbiology

Institution: Maharaja College For Women, Perundurai

Affiliated University: Bharathiar University

Year of Award: 1998

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

Assistant Professor : October 2013 to Till date

Past Experience

Assistant Professor: February 2011 to October 2013 at DRDO-BU CLS, Bharathiar University

Assistant Professor & Head: June 2008 to February 2011 at Bharathidasan College of Arts and Science, Erode

Lecturer: June 2003 to October 2006 at Maharaja College for Women, Perundurai

Lecturer: December 2000 to April 2001 at Maharaja College for Women, Perundurai

Awards

Membership

Professional Bodies

1.Asian Polymer Association

Life Member

Academic Bodies

1.Board of Studies

Projects

Funded Projects (National Level)

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

RUSA 2.0 BEICH

Nanostructured ZnO Incorporated Chitosan / Gelatin hydrogel composite for biomedical applications

2020

Rs.6.0Lak

UGC- XII Plan Innovative Scheme

Synthesis and characterization of chitosan metal nanocomposite membrane and its antimicrobial efficacy

2012 to 2017

Rs.1.0Lak

DRDO

Isolation, Characterization and application of microbial pigments

2014 to 2018

Rs.14.9Lak

Consultancy Projects

- [Ongoing](#)

- [Completed](#)

Ongoing Consultancy Project Informations

Completed Consultancy Project Informations

Research Guidance

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

ONGOING

Nithya.M

Production and Structural characterization of Silver Nanoparticles from the Isolate

2012

Priya.S

Charecterization and Application of Silver Nanoparticles Synthesized from Azadirachta indica

2012

Jayasindhu .M

Extraction of Pigment and Biosynthesis of Silver Nanoparticles from Fusarium equiseti for textile application

2012

Sowmiya. R

Extraction of Biocomponent from Fungi – Aspergillus species

2013

Seethalakshmi. P

Extraction of Biocomponent from Fungi – Fusarium species

2013

Sathya.B

Preparation and Study of Ferrous Sulphate Nanoparticles with Improved Permiability for Treatment of Anemia

2014

Nithya.P

Synthesis of TiO₂ and ZnO Nanoparticles by Facile Polyol Method for the assessment of Possible Agents for Seed Germination

2014

Krishnamoorthy . S

Synthesis and Charecterization of Magnesium Oxide Nanoparticles Using Neem Leaf Extract for Seed Germination Application

2014

Kirubamani.P

Studies on the effect of Nanoparticle containing Drug on Tumor Growth and Angiogenesis in Melanoma

2015

Prakash. J

The Preparation of Pyrrolidone / Silver Composite Nanofibers for Application in Biomedicine

2016

Santhosh. D

Fabrication of ZnO & Cu doped ZnO Nanofibers by Electrospinning Method and Their Potential Applications

2016

Blessy. S

Synthesis and characterization of Tetraaniline – Tin oxide Nanocomposites

2016

Theborah Nishi. T

Comparision of properties of UV Mercury Lamp and UV – LED Cured Sol Gel Coatings

2017

Janani. S

Characterization of Rhizoctinia solani and its Phytotoxic Metabolite Inciting Sheath Blight of Rice

2017

Sruthi C.S

Dual Anticancer Therapy Using Peptide Conjugated ZnO Nanoparticles

2017

Suriya . S

Enhancement of Cytotoxicity of Cisplatin and Kanamycin Co-loaded BSA Nanoparticle Against Breast Cancer

2017

Keerthana . S

Solvothermal Synthesis and Selective Sensing Properties of WO₃ Nanostructures

2018

Vikkram. S

Synthesis and Characterization of MgO Nanoparticles as a Potential Adsorbent for Removal of Ciprofloxacin from Water

2018

Athibala @ Nivetha. M

Effect of Surfactant Modified Halloysite Nanotube On Phytopathogenic Bacteria (Agrobacterium tumefaciens)

2018

Sathish P.B

Natural Pigment Incorporated with Chitosan For Active Packaging

2019

Aswathi .M

Development and characterization of Bacterial cellulose based membrane composites for diverse application.

2019

Research Publication

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

1.Premasudha Paramasivam Keerthana Kittusamy Anti-Inflammatory Activity of
Muntingia calabura Fruits Pharmacognosy Journal
Kathirvel Preethi
2012

2.Recovery of Polyhydroxybutyrate (PHB) from Bacterial Biomass by solvent
Extraction with Chloroform International Journal of Applied Biotechnology and
Biochemistry
Premasudha P., Bhuvana R., Janani PriyaB.J
2012

3.Mycological Assessment and Extracellular Protein Studies of Pathogenic Moulds
in Oyster Mushroom (Pleurotus ostreatus) Cultivation Asian Journal of
Microbiology Biotechnology and Environmental Science
Y.Shalini ., P.Premasudha
2012

4.Biological Treatment of drinking water by Chitosan based
Nanocomposites African Journal of Biotechnology
R.Rajendran, M.Abirami, P.Prabhavathi, p.Premasudha, B.Kanimozhi and
A.Manikandan
2015

5.Biological synthesis and characterization of silver nanoparticles using Eclipta
alba leaf extract and evaluation of its cytotoxic and antimicrobial
potential Bulletin of Material Science
Paramasivam Premasudha, Mudili Venkatramana, Marriappan Abirami,
Periyasamy Vanathi, Kadirvelu, Krishna, Ramasamy Rajendran,
2015

6.Extraction and Characterization of Chitosan from Crustacean Waste : A
Constructive Waste Management Approach International Journal of Science and
Research

Paramasivam Premasudha, Perumal Vanathi, Mariappan Abirami
2017

7.Nematicidal activity of green synthesized silver nanoparticles using plant extracts against root - knot nematode *Meloidogyne incognita* International Journal of Nematology
D.Kalaiselvi, P.Sundaraj, P.Premasudha and Saad L.Hafez
2017

8.Bio-production of novel water-soluble yellow pigment from *Aspergillus* sp. and exploring its sustainable textile application 3 Biotech
S. Pandiyarajan P. Premasudha, K. Kadirvelu
2018

1.Isolation of *Azotobacter* Spp. From Marine Thondi Region and to Check its Stability by Earthen Pot Culture Method
Y.Shalini ., P.Premasudha
Indian Journal of Life Science
2012

2.International Journal of Pharma and Biosciences
P.Vanathi., P.Premasudha R.Rajendran
Production and Characterization of Chitosanase Enzyme from *Streptomyces* Sp Isolated from Biowaste Soil Samples
2016

1.A Process for Preparation of chitosan-silver-herbal membrane composite for biomedical application
National
2015
3896/DEL/2015

2.Bioproduction and purification of novel red pigments as colorants and its process thereof
National
2019
201911040830

Conference Info

Books & Chapters Related Info

1.P.Premasudha, S.Pandiyarajan
Gene sequence – BankIt2061874
2017

2.P.Premasudha, S.Pandiyarajan
Gene sequence BankIt2061877
2017

Alumini Reflections: