

Faculty Profile of Dr. P. Gurusaravanan



Dr. P. Gurusaravanan
Assistant Professor
Department of Botany

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Research Area

- Plant Tissue culture and Metabolic engineering
- Microbial bio-prospecting
- Seaweed Research

Education & Career

Education

Ph.D.

Subject : Botany

Institution : Bharathidasan University, Tiruchirappalli

Affiliated University : Bharathidasan University

Year of Award : 2015

M.Phil.,

Subject : Botany

Institution : Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi, TN, India

Affiliated University : Madurai Kamaraj University

Year of Award : 2008

M.Sc.,

Subject : Botany

Institution : Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi, TN, India

Affiliated University : Madurai Kamaraj University

Year of Award : 2007

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

Assistant Professor : November 2016 to Till Date

Past Experience

Assistant Professor : July 2014 to November 2016 at Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi, TN, India

Awards**Membership**

Membership in Professional Bodies

Organization : Swamy Botanical Club

Type of Membership : Life member

Period : 2011 to till date

Organization : National Academy of Biological Sciences

Type of Membership : Life Member

Period : 2017 to till date

Organization : Indian Science Congress Association

Type of Membership : Life Member

Period : 2017 to till date

Visits

Collaborators

Others

Projects

Funded Projects(National Level)

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

1. RUSA-MHRD

Title of the project : Development and evaluation of Bio-controlling agent for sustainable agriculture production'

Funding Agency : RUSA-MHRD - HUB, BU, CBE

Amount : Rs. 6.0 Lakhs.

Duration : 2019-2020

1. RUSA-MHRD

Title of the project : Medicinal plants: their role in human health and drug discovery for cancer

Funding Agency : RUSA-MHRD - HUB, BU, CBE

Amount : Rs. 6.1 Lakhs.

Duration : 2020-2022

Consultancy Projects

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

Research Guidance

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

ONGOING

Candidate Name : Mrs. A. Valankanni

Title of the Thesis : Extraction and evaluation of clinically important bioactive compounds from marine seaweeds

year : 01.07.2018 - till date

Candidate Name : Mr. R. Vasanthkumar

Title of the Thesis : Isolation, characterization and extraction of bioactive

compounds from plant endophytes: A biomedical approach

year : 01.07.2019 – till date

Candidate Name : Ms. K. P. Roshna

Title of the Thesis : In vitro and in silico approach in medicinal plants for the production of bioactive compounds

year : 01.10.2019 – till date

AWARDED

Dr. {Candidate Name}

Title of the Thesis :*****8

Date of Submission:

Date of Award:

Sl. No. : 1

Name of the candidate : Gowthem P

Title of the Thesis : Seaweed Polysaccharide as Biostimulant: Impact on Growth and Yield of Mung Bean (*Vigna radiata* (L.) R. Wilczek) Co-7

Year : 2018

Sl. No. : 2 Name of the candidate : Naveena R

Title of the Thesis : Extraction and characterization of polysaccharide from *Sargassum cinereum* (J.Agardh) and evaluated their potential biostimulant, antioxidant and antimicrobial activities.

Year : 2019

Sl. No. : 01

Name of the candidate : Elankavi E

Title of the Dissertation : DNA Barcoding approaches for Authentication of Endemic plants of *Strobilanthes* in Western Ghats of Tamil Nadu, India.

Year : 2018

Sl. No. : 02

Name of the candidate : Sabarikeerthana V

Title of the Dissertation : The Use of DNA Barcoding in identification and authentication of Endemic Passiflora sp. Of Western Ghats, Tamil Nadu, India.

Year : 2018

Sl. No. : 03

Name of the candidate : Ashitha Sugunan

Title of the Dissertation : Biochemical characteristics and antioxidant activities of polysaccharide from Sargassum cinereum J. Agardh as antioxidant agents

Year : 2019

Sl. No. : 04

Name of the candidate : Kavipriya B

Title of the Dissertation : Honeycomb Structured Zinc Oxide nanoparticles synthesised from Elaeocarpus variabilis Zmarzty leaf extraxct: evaluate their potential antioxidant, antimicrobial and antilarvicidal activities

Year : 2019

Sl. No. : 05

Name of the candidate : Krishna Priya M

Title of the Dissertation : Evaluation of enzyme production, antioxidant and antimicrobial potential of isolated Actinomycetes from marine environment

Year : 2019

Research Publication

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

Reverse Chronological Order

2021

Number. Title

Author Names

Journal Name

2020

10. [An Improved Agrobacterium-Mediated Transformation Method for Cotton \(*Gossypium hirsutum* L. 'KC3'\) Assisted by Microinjection and Sonication](#)

P. Gurusaravanan, S. Vinoth, and N. Jayabalan,

In Vitro Cellular and Developmental Biology – Plant, 56, 111–121, (2020),

2019-2004

9. [An Improved Agrobacterium-Mediated Transformation Method for Cotton \(*Gossypium hirsutum* L. 'KC3'\) Assisted by Microinjection and Sonication,](#)

P. Gurusaravanan, S. Vinoth, and N. Jayabalan,

In Vitro Cellular and Developmental Biology – Plant, 56, 111–121, (2020),

8. [Optimized in vitro micro-tuber production for colchicines biosynthesis in *Gloriosa superba* L. and its anti-microbial activity against *Candida albicans*,](#)

S. Sivakumar, S. Sathish, G. Siva, S. Vinoth, G. Prem Kumar, P.

Gurusaravanan,

M. Vigneswaran, T. Senthil Kumar, R. Sathishkumar, N. Jayabalan,

Plant Cell, Tissue and Organ Culture, 139, 177–190 (2019),

7. [Alleviation of *Phytophthora infestans* Mediated Necrotic Stress in the Transgenic Potato \(*Solanum tuberosum* L.\) with Enhanced Ascorbic Acid Accumulation,](#)

V. Baskar, U. Chandrama Prakash, P. Gurusaravanan, R. Govindasamy and T. Muthu

Plants, 8 (365), 2-12, (2019),

6. [Influence of seaweed extracts and plant growth regulators on in vitro regeneration of *Lycopersicon esculentum* from leaf explants,](#)

S. Vinoth, P. Gurusaravanan, S. Sivakumar and N. Jayabalan,

Journal of Applied Phycology, 31, 2039-2052, (2019).

5. [Anti-larvicidal activity of silver Nanoparticles synthesized from Sargassum polycystum against Mosquito vectors](#),

S. Vinoth, S. Gowri Shankar, P. Gurusaravanan, B. Janani and J. Karthika Devi,
Journal of Cluster Science, 30, 171-180, (2019),

4. [Seaweed extract promotes high-frequency in vitro regeneration of Solanum surattense Burm.f: A valuable medicinal plant](#),

P. Gurusaravanan, S. Vinoth, G. Premkumar and G. Pandiselvi,
Research Journal of Medicinal Plants, 11, 134-141 (2017),

3. [Evaluation of seagrass liquid extract on salt stress alleviation in tomato plants](#),

S. Vinoth, R. Sundari, P. Gurusaravanan, S. Sivakumar, G. Siva, G. Prem Kumar, Manju, K. Velmurugan, V. Lakshminarayana and N. Jayabalan,
Asian Journal of Plant Sciences, 16,172-183 (2017).

2. [Optimization of somatic embryogenesis protocol in Lycopersicon esculentum L. using plant growth regulators and seaweed extracts](#),

S. Vinoth, P. Gurusaravanan and N. Jayabalan,
Journal of Applied Phycology 26, 1527–1537(2014),

1. [Effect of cyanobacterial extracellular products on high-frequency in vitro induction and elongation of Gossypium hirsutum L organs through shoot apex explants](#),

P. Gurusaravanan, S. Vinoth, M. Satheesh Kumar, N. Thajuddin and N. Jayabalan,
Journal of Genetic Engineering and Biotechnology, 11, 9–16 (2013).

01. Analysis of genetic variability in Arachis Hypogaea L. using RAPD markers
Siva G, Kamalak kannan K, Sivakumar S, Premkumar G, Gurusaravanan P, Vinoth S, Rajanarayanan S, Senthilkumar T and Jayabalan N
Journal of the Swamy Botanical Club (2014)

02. Identification of RAPD markers associated with somaclonal variation under different hormonal condition in in vitro raised cotton callus (Gossypium hirsutum L).- A molecular approach
Gurusaravanan P, Vinoth S, Vijayakumari J and Jayabalan N
Journal of the Swamy Botanical Club (2013)

03. Effect of seaweed liquid fertilizers on the growth and biochemical constituents of *Cicer Arietinum* (L)

Gurusaravanan P, Pandiyarajan V and Jayabalan N

Journal of Basic and Applied Biology (2011)

04. Effect of the seaweed liquid fertilizer on growth and productivity of *Vigna radiata* (L). Wiliczek

Gurusaravanan P, Pandiyarajan V and Jayabalan N

Green Farming (2010)

01. Details of Patent : Method of Rapid Synthesize of Phyto Silver Nanoparticles
International/National : National

Year : 2019

Application / Grant Number : 202041002956 (Filed)

Alumini Reflections: