

## **Faculty Profile of Dr. B. Sathya Priya**



**Dr. B. Sathya Priya**  
**Assistant Professor**  
**Department of Environmental Sciences**

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### **Research Area**

- Environmental Microbiology
- Environmental Biotechnology
- Industrial Biotechnology

### **Education & Career**

#### **Education**

**Ph. D.**

Subject : Biotechnology (Interdisciplinary with Environmental Science)

Institution : Bharathiar University

Affiliated University : Bharathiar University

Year of Award : 2015

**M.Phil.,**

Subject : Biotechnology

Institution : Bharathidasan University

Affiliated University : Bharathidasan University

Year of Award : 2006

**Diploma in Environmental Management System & ISO 14000/14001**

Institution : Indian Institute of Management and Technology, Anna University

Affiliated University : Anna University

Year of Award : 2004

**M. Sc.,**

Subject: Environmental Sciences

Institution : Bharathiar University

Affiliated University : Bharathiar University

Year of Award : 2000

**B. Sc.,**

Subject: Zoology

Institution: Vellalar College for women

Affiliated University: Bharathiar University

Year of Award: 1998

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

Assistant Professor : 22.11.2016 to Till Date

**Past Experience**

Assistant Professor: 2.6.2010 to 30.9.2016 at CMS College of Science & Commerce, Coimbatore

**Awards**

## **Travel awards**

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### **Academic Awards**

Awarding agency: Nature Science Foundation

Purpose of award: Best Women Faculty Award

Date:12.1. 2020

## **Membership**

### **Professional Bodies**

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### **Academic Bodies**

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**Department of Environmental Sciences, Bharathiar University**

Member:Board of Studies

Period:2017-till date

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## **Visits**

## **Collaborators**

## **Others**

## **Projects**

Funded Projects(National Level)

- [Ongoing - 00](#)

- [Completed - 01](#)
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## 1. RUSA-BEICH 2.0

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**Title of the project :** Synthesis of eco friendly human safe antimicrobial natural pigments alternative to synthetic dyes using agro waste by novel bacteria isolated from Western Ghats and bioprospecting their applications in Textile and Medical Textile Industries

**Funding Agency :** RUSA-BEICH 2.0

**Amount :** Rs.6,00,000

**Duration :** Dec 19-June 2020

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## 1. Funding Agency Name

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**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 :Nzamwita Olivier

Date of Admission :

Candidate Name :Soundrya SL

Date of Admission :

Awarded

Ongoing

Completed

Sl. No. : 1

Name of the candidate : Anne Jenifer.A

Title of the Thesis :Effective utilization of marine actinomycetes and Chlorella vulgaris in ecofriendly Bioremediation of chromium

Year Of Awarded :2013

Sl. No. : 2

Name of the candidate :Amrutha.P

Title of the Thesis :Ecofriendly Bioremediation of Chlorpyrifos and production, applications of protease using novel marine actinomycetes.

Year Of Awarded : 2013

Ongoing

Sl. No. : 1

Name of the candidate :Aswin Pradeep

Title of the Dissertation :

Year Of Awarded :

Sl. No. : 2

Name of the candidate :Akila S.P

Title of the Dissertation :

Year Of Awarded :

Sl. No. : 3

Name of the candidate :Arthi G

Title of the Dissertation :

Year Of Awarded :

Completed

Sl. No. : 1

Name of the candidate :Shabina Moideen

Title of the Dissertation :Ecofriendly polyhydroxy butyrate (phb) production from waste as feedstock using bacteria (Bacillus licheniformis and Bacillus cereus) and their applications.

Year Of Awarded :2019

Sl. No. : 2

Name of the candidate :Ragi Ravi

Title of the Dissertation : Ecofriendly production of biopigments from waste using bacteria (Micrococcus luteus, Bacillus licheniformis) and their applications.

Year Of Awarded : 2019

Sl. No. : 3

Name of the candidate :Najla C.V

Title of the Dissertation : Production of biopigments with antimicrobial potential from bacteria (Paenibacillus spp. and Bacillus licheniformis) using waste and application in textile industry

Year Of Awarded : 2019

Sl. No. : 4

Name of the candidate :Srinithi.M.

Title of the Dissertation :Production of polyhydroxy butyrate (phb) with antimicrobial potential using bacteria (Micrococcus luteus and Bacillus licheniformis) from waste as substrate.

Year Of Awarded : 2019

Sl. No. : 5

Name of the candidate :Karthick.V

Title of the Dissertation :Biopolymer PHB (Poly-3-Hydroxybutyrate) production using wastes as feed stock by bacterial isolates and application in aquaculture as ecofriendly alternative antibiotics.

Year Of Awarded : 2018

Sl. No. : 6

Name of the candidate :Soundrya S.L

Title of the Dissertation :Studies on ecofriendly alternative biofuel production using waste as substrate by bacteria isolated from Pichavaram Mangrove forest and Kolli Hills.

Year Of Awarded :2018

Sl. No. : 7

Name of the candidate :Vijay Ebinezar .R

Title of the Dissertation :Study on Efficacy of two strain combination of whole cell pertussis vaccine.

Year Of Awarded : 2016

Sl. No. : 8

Name of the candidate :DrishyaA.S

Title of the Dissertation : Study on alternative ecosafe biofuel production using algae.

Year Of Awarded : 2016

Sl. No. : 9

Name of the candidate :Ranjith R.S

Title of the Dissertation :Biocontrol of Rhizoctonia solani and Aspergillus flavus using Bacterial and plant extracts .

Year Of Awarded : 2015

Sl. No. : 10

Name of the candidate :Amritha Krishna B.V

Title of the Dissertation :Ecofriendly alternative biofuel production from Ricinus communis and Thevetia peruviana.

Year Of Awarded :2014

Sl. No. : 11

Name of the candidate :Pallavi. J.S

Title of the Dissertation :Novel utility of marine actinomycetes for production and Optimization of bioemulsifier using hydrocarbon source.

Year Of Awarded : 2013

Sl. No. : 12

Name of the candidate :Ramya . M.G

Title of the Dissertation :Utilization of marine actinomycetes for cellulase production from waste & Bioremediation of dairy effluent.

Year Of Awarded : 2012

Sl. No. : 13

Name of the candidate :Divya .K

Title of the Dissertation :Sesamum indicum (TIL) Derived bioactive agent that bind to mammalian heat shock protein 90 (HSP 90).

Year Of Awarded : 2011

Sl. No. : 14

Name of the candidate :Mary Suji C.M

Title of the Dissertation :Optimization of lipase production from different agro-industrial waste by marine actinomycetes and utility as detergent additive.

Year Of Awarded : 2011

Sl. No. : 15

Name of the candidate :Arun.M

Title of the Dissertation : Evaluation of Biofilm technology in biological treatment for textile effluent.

Year Of Awarded : 2010

Sl. No. : 16

Name of the candidate :Madhu .M

Title of the Dissertation :Effect of potash mobilizing bacteria (Frateuria aurantia-symbion-k) on black gram (Vigna munga).

Year Of Awarded : 2010

Sl. No. : 17

Name of the candidate :Karthikeyan.P



Title of the Dissertation : Typing of *Leptospira* serovars using VNTR.

Year Of Awarded : 2010

Sl. No. : 18

Name of the candidate : Srividya .P

Title of the Dissertation :Antifungal and antibacterial phytochemicals from herbal extracts.

Year Of Awarded : 2009

Sl. No. : 19

Name of the candidate :Thilagarani. M

Title of the Dissertation :Identification of TCF7L2 gene susceptible for NIDDM Using PCR-Bassed RFLP Method.

Year Of Awarded :2009

Sl. No. : 20

Name of the candidate :Sivakumar .R

Title of the Dissertation : Isolation,screening,optimization,production and application of thermostable laccase from *Ganodema lucidum* and sequence analysis of its rRNA Gene.

Year Of Awarded :2009

Sl. No. : 21

Name of the candidate : Manju.M

Title of the Dissertation :Bioremediation of dairy Industry effluent by *Aspergillus Niger* and utilization for the germination of Green gram (*Vigna radiata*) and red gram (*Cajanus cajan*).

Year Of Awarded : 2008

Sl. No. : 22

Name of the candidate :Bijinu.B

Title of the Dissertation :Enzymatic hydrolysis of seaweed proteins

Year Of Awarded :2008

Sl. No. : 23

Name of the candidate :Carolina. S

Title of the Dissertation :Evaluation of *Methylobacterium* isolate for methane utilization.

Year Of Awarded :2008

Sl. No. : 24

Name of the candidate :Sumathy.S

Title of the Dissertation : The effect of Entomopathogenic fungus *Beauveria bassiana* (Bio power) on silkworm (*Bombyx mori*).

Year Of Awarded : 2008

## Research Publication

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

2019-2013

4. [Enhancement of ecofriendly alternative bioenergy from latex plant \*Pedilanthus tithymaloides\* using lipolytic marine actinomycetes](#)

Name of the Authors : Sathya Priya B, Stalin T and Selvam K

Journal Name: Pollution Research, 38, S108-S111 (2019).

3. [Efficient ecofriendly bioremediation of crude oil waste by extremophilic marine \*Streptomyces indiaensis\* Act 7 and \*Streptomyces hygroscopicus\* Act 14](#)

Name of the Authors : B. Sathya Priya, T. Stalin and K. Selvam,

2. [Pyrethrin from \*Tanacetum cinerifolium\* as repellent against mosquitoes,](#)

Name of the Authors : P. Amrutha, B. Sathya Priya et al.,

International Current Pharmaceutical Journal, 2, 170-176 (2013).

1. [Investigation of soil enzymatic activity and biochemical parameters of \*Lycopersicon esculentum\* under lead stress](#)

Name of the Authors : A. Anne Jenifer, B. Sathya Priya et al.,  
International Journal of Current Trends in Research, 2, 219-227 (2013).

2018-2017

## **Books**

1. [Bioprospecting of antimicrobial Carica papaya leaf extract for finishing of fabrics in health care industries](#)

B. Sathya Priya, T. Stalin and Olivier Nzamwita, Phytomedicine research and development,  
CRC Press, Taylor & Francis Group, 23-26 (2020), ISBN: 9781003014898.

2. [Bioprospecting of ecofriendly natural dyes using novel marine bacteria as an efficient alternative to toxic synthetic dyes](#)

B. Sathya Priya, K. Chitra and T. Stalin,  
Microbial biodiversity, Cambridge Scholars Publishers, 1-13 (2020), ISBN: 978-1-5275-4818-3.

3. [Microplastics pollution](#)

B. Sathya Priya and T. Stalin,  
A primer on Earth pollution: Pollution types and disposal, Bentham Science Publishers, 18-32 (2020), ISBN: 978-981-14-7653-2.

4. [Synthetic dyes pollution](#)

B. Sathya Priya, V. Arun and T. Stalin,  
A primer on Earth pollution: Pollution types and disposal, Bentham Science Publishers, 1-17 (2020), ISBN: 978-981-14-7653-2. DOI:  
10.2174/9789811476556120010003

5. [Marine pollution](#)

B. Sathya Priya, K. Chitra and T. Stalin,  
A primer on Earth pollution: Pollution types and disposal, Bentham Science

Publishers, 113-128 (2020), ISBN: 978-981-14-7653-2.

6. [Biomedical waste- Safe disposal and recycling](#)

V. Arun and B. Sathya Priya,

A primer on Earth pollution: Pollution types and disposal, Bentham Science Publishers, 163-179 (2020), ISBN: 978-981-14-7653-2.

7. [Agricultural pollution](#)

K. Chitra and B. Sathya Priya,

A primer on Earth pollution: Pollution types and disposal, Bentham Science Publishers, 46-58 (2020), ISBN: 978-981-14-7653-2. DOI: 10.2174/9789811476556120010006

8. [Role of organic farming for microbial biodiversity](#)

K. Chitra and B. Sathya Priya,

Microbial biodiversity, Cambridge Scholars Publishers, 113-124 (2020), ISBN: 978-1-5275-4818-3.

9. Importance of ecofriendly biofertilizers for sustainable agriculture and environment,

B. Sathya Priya,

Business and environment, Xpress Publishers, 109-119 (2020), ISBN: 978-1-64828-595-0. Year 2018

10. Sustainable utility of Carica papaya leaf extract for the production of ecosafe medical textiles.

B. Sathya Priya and Olivier Nzamwita,

Biodiversity and its conservation: Priorities and challenges, Laser Park publishers, 103-104 (2018), ISBN: 978-93-84234-71-3.

11. Ecofriendly production of biofuel using waste substrates by microbes isolated from Pichavaram mangrove forest,

B. Sathya Priya, S. L. Soundrya and V. Karthick,

Biodiversity and its conservation: Priorities and challenges, Laser Park publishers, 65-66 (2018), ISBN: 978-93-84234-71-3. 12.

12. Conservation of biodiversity from harmful impacts of tannery industry effluent using halophilic marine Streptomyces hygrosopicis ACT 14, B.

Sathya Priya, T. Stalin and K. Selvam,

Biodiversity and its conservation: Priorities and challenges, Laser Park

publishers, 58-60 (2018), ISBN: 978-93-84234-71-3.

## 2017

13. Production of ecofriendly alternative textile dyes using novel actinomycetes.

B. Sathya Priya, T. Stalin, V. Karthick and S. L. Soundrya

Recent trends in life sciences: Research, practices and application for sustainable development,

Macmillan Publishers, 574-576 (2017), ISBN: 93870-0007-9.

14. Ecofriendly renewable biofuel production using extremophilic actinomycetes from Western Ghats,

B. Sathya Priya, T. Stalin, S. L. Soundrya and V. Karthick,

Recent trends in life sciences: Research, practices and application for sustainable development,

Macmillan Publishers, 643-645 (2017), ISBN: 93870-0007-9.

15. Marine actinomycetes as an effective biocontrol agent against *Rhizoctonia solani*- A promising sustainable ecofriendly alternative to synthetic fungicides,

B. Sathya Priya and T. Stalin,

Recent trends in life sciences: Research, practices and application for sustainable development,

Macmillan Publishers, 571-573 (2017), ISBN: 93870-0007-9.

16. Ecofriendly biofuel production using *Spirulina platensis*. A sustainable alternative energy to fossil fuels and plant based oils,

T. Stalin. and B. Sathya Priya,

Recent trends in life sciences: Research, practices and application for sustainable development,

Macmillan Publishers, 667-669 (2017), ISBN: 93870-0007-9.

17. Screening of biosurfactant producing marine actinomycetes- A promising ecofriendly alternative to chemical surfactant,

B. Sathya Priya and T. Stalin,

Phytospectrum, 29-30 (2017).

## 2015

18. Clarification of fruit juice using xylanase and cellulase enzymes,  
T. Stalin, B. Sathya Priya and K. Selvam,  
Sustainability- Key to future business, environmental, linguistic, scientific  
and technological fields,  
Reddy Jana Sanga First Grade College, 38-40 (2015), ISBN: 978-81-929698-1-  
7.

2012

Alumini Reflections: