

## STAFF PROFILE

- 1) Name : **Dr.S.KARTHIKKUMARAN**
- 2) Designation : Assistant Professor
- 3) Department : Pg & Research Department of Botany
- 4) Qualifications : M.Sc. (Biotech.), M.B.A.,M.Sc.(Bot.),M.Phil.,Ph.D.
- Academic: M.Sc.(Botany), M.Phil., Ph.D.
- Additional: M.B.A.,M.Sc.(Biotechnology)



Course	Year of Passing	Institute	Class Secured
<b>Ph.D. (Botany)</b>	2015	Bharathiar University, Coimbatore.	Highly commented
<b>M.Phil. (Botany)</b>	2013	Bharathiar University, Coimbatore.	I class with highly commented
<b>M.Sc. (Plant Biotechnology)</b> (Equivalent to Botany) G.O.(Ms.)No.116/ 22.07.2014	2011	Bharathidasan University, Tiruchirappalli.	I class with (A <sup>++</sup> Grade)
<b>B.Sc. (Biotechnology)</b>	2009	Dr.N.G.P.Arts& Science College, Coimbatore, Bharathiar University.	I class
<b>M.Sc. (Botany)</b>	2014	Bharathiar University, Coimbatore.	I class
<b>MBA (Biotechnology)</b>	2013	Anna University, Chennai.	I class

## PDF TITLE

**Phytosynthesis of Nanoparticles Using Edible Seed Extracts of *Artocarpus hirsutus* Lam. and Evaluation of Their Anticancer Potentials – A Novel Approach**

Under the Supervision of **Dr.N.Gopalan,**  
**Scientist 'F' & Joint Director,**  
**Defence Food Research Laboratory (DFRL),**  
**Mysore, Karnataka. INDIA.**

## Ph.D. THESIS

**Ethnopharmacological and Nutraceutical Properties of Wild Edible Fruits:  
*Elaeocarpus Variabilis* Zmarzty and *Elaeocarpus Tuberculatus* Roxb.**

**Under the Guidance of                      Dr. V. RAMA KOTI REDDY,  
Professor,  
Department of Botany,  
Bharathiar University, Coimbatore – 641 046  
Tamil Nadu, India**

## M.Phil. DISSERTATION

**Phytochemical Analysis and Pharmacological Evaluation of *Tarenna asiatica* (L.) O. Ktze. ex K. Schum.**

**Under the Guidance of                      Dr. T. PARIMELAZHAGAN  
Professor and Head,  
Department of Botany,  
Bharathiar University, Coimbatore – 641 046  
Tamil Nadu, India**

## M.Sc. DISSERTATION

**Evaluation of Genotoxicity using Comet Assay in Plants and Human Lymphocyte Cells**

**Under the Guidance of                      Dr. ANITA MUKHERJEE  
Professor and Head,  
Department of Botany,  
University of Calcutta, Kolkata - 700 019,  
West Bengal, India**

## Post-Doctoral Experience:

### POST DOCTORAL FELLOW

**Defence Food Research Laboratory (DFRL),  
Mysore, Karnataka.  
INDIA.**

5) Experience (in years): Teaching: 08

Research:13

6) Area of Specialization: Bioprospecting of Medicinal Plants and Phytomedicine

7) Contact: 0452 2913150 E-mail: dr.karthikkumaran@gmail.com Mobile Number: 9944228612

8) Grants Received (Conference/Workshop/Seminar/any other):

Event Title	Agency	Fund Received	Date
Nil			

9) Project Completed:

Project Title	Agency	Fund Received	Duration
Nil			

10) Project ongoing :

Project Title	Agency	Fund Received	Duration
Nil			

11) Research Guidance:

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	Nil	
M. Phil.	Nil	

12) Research Publications:

	International	National
Total Number of Publications	05	03

#### List of International Publications:

**Karthikkumaran S.,** Sajeesh T., Parimelazhagan T., Vinodhkumar V., Kamalanathan D. and Natarajan T., 2014. "Evaluation of antioxidant and antimicrobial activities of *Tarenna Asiatica* (L.) O. Ktze. exK. Schum." *Asian Journal of Pharmaceutical and Clinical Research*, 7(1): 102-110.

**Karthikkumaran S.,** Parimelazhagan T., Rajendran A. and Binu Thomas., 2014. "Medico-potential plants used by Paliyartribes of Sembarankulam, Dindigul District, Tamil Nadu, India." *International Journal of Pharmacology Research*, 4(2): 69-74.

**Karthikkumaran S.,** and Parimelazhagan T., 2015. "Evaluation of *Tarenna asiatica* (L.) O. Ktze. Ex k. Schum. Fruit extract against inflammation." *International Journal of Pharmacological Screening Methods*, 5(2):59-63.

**Karthikkumaran S.,** Vanitha V.and Reddy VRK.,2015. “Antinociceptive Potential Of *Tarenna asiatica* (L.) O. Ktze. Ex K. Schum. Fruit Extract” *International Journal of Pharmacotherapy*, 5(2):101-105.

**Karthikkumaran S.,** Sajeesh T. and Parimelazhagan T. “Scientific validation of analgesic and anti-inflammatory properties of *Tarenna asiatica*(L.) O. Ktze. ex K. Schum. by FTIR, HPLC and GC-MS analyses.”*Asian Pacific Journal of Tropical Medicine*.

#### **List of National Publications:**

**Karthikkumaran S.,** Reddy V.R.K. and Parimelazhagan T. “Study of antitumor property and phytochemical profiles of wild edible fruit: *Elaeocarpustuberculatus*.” *Industrial Crops and Products*.

**Karthikkumaran S.**and Reddy V.R.K. “Ethnobotanical studies of Kodanthur Tribal Belt, Anamalais, Western Ghatsand Phytotherapeutical profiling of Wild edible fruit: *Elaeocarpusvariabilis*.”*Journal of Ethnopharmacology*.

**Karthikkumaran S.,** Reddy V.R.K. and Parimelazhagan T.“A comparative analysis of nutritional and antioxidant properties of wild edible fruits: *E. variabilis*and *E. tuberculatus*. *Food Science and Biotechnology*.

13) Chapters in Books: Nill

14) Other Publications (Proceedings): Nill

15) Books Published: Nill

16) Presentation in Seminar / Conference:

International:05

National: 11

- Presented a paper in the Science Academies Lecture Workshop on “Recent Trends in Microbiology & Biotechnology” organized by **PG & Research Centre in Microbiology,MGR College,Hosur,(2018)**
- Presented a paper in the National Level Workshop on “*Botanical Nomenclature .*” organized by Department of Botany, **St.Joseph’s College(Autonomous), Kozhikode,Kerala,(2016).**
- Presented a paper in National conference on the topic “*Botanicals and Phytochemicals The Challenges and Promise for Health Care and Drug Development.*” Conducted by Department of Biochemistry, **Rev.Jacob Memorial Christian College. Ambilikai, (2016).**
- Presented a paper in National conference on the topic “*Recent Advances and Challenges in Plant Science.*” Conducted by Department of Botany, Department of Botany, **Arulmigu Palaniandavar Arts College for Women, Palani,(2015).**

- Presented a paper in National conference on the topic “*Recent Challenges in Zoology.*” Conducted by Department of Botany, Department of Zoology, **Arulmigu Palaniandavar Arts College for Women, Palani,(2015).**
- Presented a paper in National conference on the topic “*Emerging Trends in Biodiversity Conservation and Sustainable Utilization (NSBCS).*” Conducted by Department of Botany, **Bharathiar University, Coimbatore,(2014).**
- Presented a paper in National conference on the topic “*Effect of controlled release of some Plant bark extracts on rhizoctonia spp. & fusarium oxysporum.*” Conducted by Department of Biotechnology, **Periyar University, Salem,(2012).**
- Presented poster in National Conference Bioconcorrenza 12 Conducted by centre for Plant Molecular Biology and Biotechnology, **Agriculture University, Coimbatore,(2012).**
- Presented a paper in National conference on the topic “*Screening natural inhibitors for oncogene transcription factor (API).*” Conducted by Department of Botany, **Bharathiar University, Coimbatore,(2012).**
- Presented poster in National Conference on “*Preclinical and clinical challenges in Drug Discovery*” organized by **KMCH College of Pharmacy, Coimbatore, (2011).**
- Presented a poster on “*Use of nonmaterial’s to improve food quality and food safety*” international level conference in **IICPT (Indian Institute of Crop Processing Technology), Thanjavur, (2010).**
- Presented a poster on “*Extinctions of endemic species from Biodiversity hotspots due to Global warming*” in **Bannari Amman Institute of Technology Sathamangalam**, sponsored by MEF, CSIR, TNSCST and **won prize** which was highly acclaimed, **(2009).**
- Presented a poster on “*Biotechnology and Bioethics – Anti-aging ethics*” in international level conference and awarded as a **Best poster** by the Department of Biotechnology, **Mother Teresa women's University, Kodaikannal, (2008).**
- Presented a paper in National level seminar on the topic “*Phytochemistry, Wound Healing activity of Thespesiapopulnia*” conducted by research department of Chemistry at **Government Arts college, Coimbatore, (2008).**

#### 17) Participation in Conference:

- Participation in National conference on the topic “*Botanicals and Phytochemicals The Challenges and Promise for Health Care and Drug Development.*” Conducted by Department of Biochemistry, Rev.Jacob Memorial Christian College. Ambilikkai, (2016).
- Participation National conference on the topic “*Recent Advances and Challenges in Plant Science.*” Conducted by Department of Botany, Department of Botany, **Arulmigu Palaniandavar Arts College for Women, Palani,(2015).**
- Participation in National conference on the topic “*Recent Challenges in Zoology.*” Conducted by Department of Botany, Department of Zoology, **Arulmigu Palaniandavar Arts College for Women, Palani,(2015).**
- Participation in National conference on the topic “*Emerging Trends in Biodiversity Conservation and Sustainable Utilization (NSBCS).*” Conducted by Department of Botany, **Bharathiar University, Coimbatore,(2014).**

- Participation in National conference on the topic “*Effect of controlled release of some Plant bark extracts on rhizoctonia spp. & fusarium oxysporum.*” Conducted by Department of Biotechnology, **Periyar University, Salem, (2012).**
- Participation in National Conference Bioconcorrenza 12 Conducted by centre for Plant Molecular Biology and Biotechnology, **Agriculture University, Coimbatore, (2012).**
- Participation in National conference on the topic “*Screening natural inhibitors for oncogene transcription factor (API).*” Conducted by Department of Botany, **Bharathiar University, Coimbatore, (2012).**
- Participation in National Conference on “*Preclinical and clinical challenges in Drug Discovery*” organized by **KMCH College of Pharmacy, Coimbatore, (2011).**

#### 18) Participation in Seminar:

- Participation in international level Seminar in IICPT (Indian Institute of Crop Processing Technology), Thanjavur, (2010).
- Participation in National level seminar at Bannari Amman Institute of Technology Sathamangalam, sponsored by MEF, CSIR, TNSCST and won prize which was highly acclaimed, (2009).
- Participation in international level seminar and awarded as a Best poster by the Department of Biotechnology, Mother Teresa women's University, Kodaikannal, (2008).
- Participation in National level seminar on the topic “*Phytochemistry, Wound Healing activity of Thespesiapopulnia*” conducted by research department of Chemistry at Government Arts college, Coimbatore, (2008).
- Participation in the National Level seminar on “*Botanical Nomenclature .*” organized by Department of Botany, St. Joseph’s College (Autonomous), Kozhikode, Kerala, (2016).

#### 19) Participation in Workshop:

S. No.	Programme	Topic	Centre	Period
1	Five Days Training Program	Youth Action in Heat Waves	NIDM-Madurai Kamaraj University, Madurai.	24 <sup>th</sup> to 28 <sup>th</sup> April 2023
2	Two weeks Short Term Training Program	PLANT GENETIC ENGINEERING	Bharathidasan University, Tiruchirappalli.	13 <sup>th</sup> to 28 <sup>th</sup> March 2013
3	Summer Training Program	Biological Sciences	University of Madras, Chennai.	3 <sup>rd</sup> to 23 <sup>rd</sup> May 2010

**20) Participation in Orientation Programme/ Induction Programme/ Short term Courses:**

S. No.	Programme	Centre	Period
1	ORIENTATION PROGRAMME	UGC-HRDC PONDICHERRY CENTRAL UNIVERSITY PUTHUCHERRY	1 <sup>st</sup> Feb to 2 <sup>nd</sup> March 2022
2	REFRESHER COURSE (Biological Science)	UGC-HRDC BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI. TAMILNADU	5 <sup>th</sup> to 18 <sup>th</sup> July 2022

**21) Participation in Faculty Development Programme:**

S. No.	Programme	Centre	Period
1	FACULTY INDUCTION PROGRAMME	MINISTRY OF EDUCATION RAMANUJAM COLLEGE UNIVERSITY OF DELHI	21 <sup>st</sup> Aug to 19 <sup>th</sup> Sep 2022

22) Conference/ Seminar/ Workshop Organized: Nill

23) Invited Speaker/ Session Chair – Conference/ Seminar/ Workshop:

- Delivered a lecture on “Protect Nature and Preserve life” **Nirmala College for women, Coimbatore** on September 28<sup>th</sup> July 2023.

**24) Other Co-curricular / Administrative Responsibilities:**

- Coordinator Red Ribbon Club** Saraswathi Narayanan College ,Madurai 2022-2023
- As a **NCC sergeant** led the cadet and actively involved in many parades, firing programs and achieved ‘A’ grade certificate from **Indian Army**.
- Secured **RAJYA PURASKAR** award in BHARAT SCOUTS and GUIDES.
- Student chairman in **Bharathiar University, Coimbatore**.
- Participated in the *inter-state YRC training cum-study Camp* held at **Bharathiar University, Coimbatore**.
- Received many certificates and awards from Calcutta University, Kolkata; Madras University, Chennai; Bharathidasan University Trichy; Bharathiar University, Coimbatore; Periyar

University, selam; Madurai Kamaraj University, Madurai; Pondicherry University, Pondicherry and from many colleges.

25) Member in Board of Studies: Nill

26) Editorial/ Review Board Member: Nill

27) Membership in Professional Bodies:

- Organization : Indian Pharmacological Society  
Type of Membership : Life member  
Period : July 2017- Till date.
- Organization : Academy of Sciences, Chennai  
Type of Membership : Fellow of the Academy of Sciences  
Period : December 2018-Till date.

**28) Awards received:**

Awarding agency : DRDO

Country : India

Purpose of award : National Science Day Medal 20015

Date of Award : 28.02.2015

29) Consultancy:

30) Patents:

**Details of Gene Barcoding Patent:**

- ITS2 gene of E. variabilis Acc. No. KP748173/2014
- ITS2 gene of E. tuberculatus Acc. No.KP748174/2014
- rbcLa gene of E. variabilis Acc. No. KP748175/2014
- rbcLa gene of E. tuberculatus Acc. No.KP748176/2014

31) Any other information:

\* Note : Please provide the total Numbers and details for each metrics .