



Dr. A. BASKARA BOOPATHY
Assistant Professor

Contact Details

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Academic Qualifications: M.Sc., M.Phil., Ph.D.,

ACADEMICS

Doctor of Philosophy	Biochemistry-Botany (Awarded 2017) , Centre for Advanced Studies in Botany, University of Madras, Guindy Campus, Chennai, Tamil Nadu. Title of the Thesis: Mass culture of <i>Tetraselmis straiata</i> Butcher BBRR1 for biodiesel and biocrude production.
Master of Philosophy	Biochemistry (First Class) 2007-2008, Periyar Maniammai University, Thanjavure, Tamil Nadu. Dissertations: Evaluation of the inhibitory activity of <i>Ficus religiosa</i> leaf and <i>Tamarindus indica</i> fruit extract on <i>in vitro</i> grown CHPD crystal.
Post Graduation	Biochemistry (First Class) 2005-2007, Department of Biochemistry, from Kadhira Mohideen College, Adirampattinam affiliated to Bharathidasan University, Trichy, Tamil Nadu. Dissertation: Evaluation of Biochemical Changes in essential Hypertension.
Under Graduation	Biochemistry (First Class) 2002-2005, Department of Biochemistry, from Sonai Meenal Arts & Science College, Mudukulathur affiliated to Madurai Kamaraj University, Madurai, Tamil Nadu.

Teaching Experience: 08Years & 02 Months

S.No	Designation	Name of the College	From	To
1.	Assistant Professor and Head	Raja College of Arts and Science, Ramanathapuram.	09.03.2022	10.04.2026
2.	Assistant Professor	J.J College of Arts and Science, Pudukkottai.	19.02.2021	08.03.2022
3.	Assistant Professor and Head	Caussanel College of Arts and Science, Muthupettai.	19.02.2018	18.02.2021

Research Experience: 08 Years

Areas of Expertise

 Microalgal Biotechnology, Lipid Biochemistry, Clinical Biochemistry

Research Supervision/Guidance

Program of Study		Completed	Ongoing
Project	PG	05	-
	UG/Others	28	05

Publications

Cumulative Impact Factor	:	18.494
Average Impact Factor per Paper	:	4.0
h-index	:	06
i10 index	:	05
Total Citations	:	157

Conference Proceedings

Journals	Conferences	Workshop	Journals	Conferences	Workshop
08	05	03	-	11	06

Editorial Board

- ✓ Reviewer in Archives of Microbiology
- ✓ Reviewer in The Science of Nature
- ✓ Reviewer in Scientific Reports
- ✓ Reviewer in Biotechnology for Biofuels and Bioproducts

Organized Funded Research Projects

S.No	Funding Agency	Amount (Rs.)	Topic	Period	Status
1.	Tamil Nadu State Council for Science and Technology DOTE campus Chennai - 600025	Rs.15,000	National Level Seminar on Advanced in Applied Biology and Environmental Science (NCAABE - 2020)	28.09.2020	Done
2.	Tamil Nadu State Council for Science and Technology, DOTE campus, Chennai - 600025	Rs.65,000	Three days Program on Creation of Scientific Awareness for Students, Farmers and Self-help groups.	12 th - 14 th February 2019	Done

Distinctive Achievements / Awards

- ❖ During my tenure, 25 students from my department secured University Ranks.
- ❖ World record attempt for the category “Most Number of Seed Balls made by a team in 72 Hours (Single Venue)” as Organizer which was held between 21 - 23 January 2020 at National Academy School Auditorium, Ramanathapuram District, Tamil Nadu.
- ❖ Awarded “Biological Science Research (UGC-BSR) Fellowship” (2014-2016) sponsored by the University Grants Commission (UGC), New Delhi, India.
- ❖ Junior Research Fellow (June-2014-July-2016) - Biological Science Research

(BSR)Fellowship for Meritorious Students, sponsored by the University Grants Commission (UGC), New Delhi, India.

- ❖ Project Fellow (December-2011 December-2013), Funded by M/s. Aban Infrastructure Pvt. Ltd. Biotechnology Division, Chennai, Tamil Nadu, India.

Professional Societies Membership

- Young Phycological Society International (YPSI).

E - Quiz Organized

- National Level Quiz - COVID-19 - 23rd June 2020
- World Blood Donors Day - 14th June 2020
- World Food Safety Day - 7th June 2020
- World Environmental Day - 5th June 2020
- Bio-Green Quiz - 2nd June 2020
- Bio-Tech Quiz - 23rd May 2020
- Bio-Tech Quiz - 23rd May 2020

Gene Bank Submission

- 🚦 GENBANK SUBMISSION Accession number KP317837. *Tetraselmis* sp.

Extension Activity

- ✓ Alagappa University Examination Answer Sheet Valuator
- ✓ Alagappa University External Practical Examiner

Research Publications

1) Natarajan Mohan, Polur Hanumantha Rao, **Annakkili Baskara Boopathy**, Ramasamy Rengasamy, Senthil Chinnasamy “A sustainable process train for a marine microalga mediated biomass production and CO₂ capture: A pilot-scale cultivation of *Nannochloropsis salina* in open raceway ponds and harvesting through electroprecipiflocculation”. Renewable Energy 173 (2021)263-272. ISSN:0960-1481. **ImpactFactor:9.1.**

2) **Annakkili Baskara Boopathy**, Thanasekaran Jayakumar, Senthil Chinnasamy, MuthuGanesanRajaram, NatarajanMohan, SubramaniNagaraj, Ramasamy Rengasamy, ManjunathManubolu, Joen-Rong Sheu and Chao-Chien Chang, “Biomass and Lipid Production Potential of an Indian Marine Algal Isolate *Tetraselmis striata* BBRR1.” MDPI Energies 2020, 13, 341. ISSN: 1996- 1073. **ImpactFactor:3.2.**

3) Muthu Ganesan Rajaram, Subramani Nagaraj, Manubolu Manjunath, **Annakkili Baskara Boopathy**, Chidambaram Kurinjimalar, Ramasamy Rengasamy, Thanasekaran Jayakumar, Joen-Rong Sheu and Jiun-Yi Li, “Biofuel and Biochemical Analysis of *Amphora coffeaeformis* RR03, a Novel Marine Diatom, Cultivated in an Open Raceway Pond”. MDPI Energies 2018, 11(6), 1341.ISSN:1996-1073.**ImpactFactor:3.2.**

4) G.Malathi, S. Arunprakash, M.ArulKumar, **A. BaskaraBoopathy**, P.Rama. Diversity and Distribution of Macro-Algae in the Gulf of Mannar. Int J Pharma Res Health Sci. 2018; 6 (1): 2245-49.ISSN:2348-6465.**ImpactFactor:0.454.**

5) G. Malathi, S. Arunprakash, M. Arul Kumar, **A. Baskara Boopathy** And P. Rama. Isolation of Substances Having Bacterial Growth Inhibition from Marine Algae. Asian Jr. of Microbiol. Biotech. Env.Sc.Vol.20(October Suppl.):2018:S222-S228.ISSN:0972-3005.

6) **Baskara Boopathy A**, Rajaram MG, Elizabeth AR, Eevera T and Jayakumar T. An Aqueous Extract of the Leaves of *Ficus religiosa* Inhibits the Growth of Urinary Calcium Hydrogen Phosphate Dihydrate Crystals-An *In-Vitro* Study. HSOA Journal of Alternative, Complementary & Integrative Medicine 3:041, 2017.ISSN:2470-7562. **ImpactFactor:0.84.**

7) N.Mohan, M.G.Rajaram, **A.BaskaraBoopathy** and R.Rengasamy. Biomass and lipid production of marine diatom *Amphiprora paludosa* W. Smith at different nutrient concentrations. J.Algal Biomass Utln.2012.3(4):52-59.ISSN:2229-6905.

8)S.Nagaraj,M.G.Rajaram,P.Arulmurugan,**A.BaskaraBoopathy**,K.Karuppasamy,K.R .Jayappriyan,R.Sundararaj,R.Rengasamy. Antiproliferative potential of astaxanthin rich alga *Haematococcus pluvialis* Flotow on human hepatic cancer (HepG2) cell line. Biomedicine & Preventive Nutrition.20122149-153.ISSN:2210.5239.**ImpactFactor:1.7.**

Book Chapter

Academic Year	Title of the Paper/Book	Name of the Journal	Status
2023	Optimization of physico chemical characteristics on biomass and lipid productivity of <i>Tetraselmis straiata</i> butcher BBRR1 for Biofuel Applications	Futuristic Trends in Biotechnology	Published

Conference / Seminars/ Workshops Organized

Name of the Conference/Seminar/ Workshop	Name of the Institute	Date
Exploratory Workshop on “Unlocking the Power of Herbal Products Exploring Herbal Technology”	Raja College of Arts and Science	22.07.2025
National Science Day Celebration - 2025	Raja College of Arts and Science	28.02.2025
National Level Seminar on “Biological, Environmental & Sustainable Technologies” (BEST - 2024)	Raja College of Arts and Science	13.09.2024
International Invited Talk on “DNA Fingerprinting - Principles, Techniques and Diverse Applications”	Raja College of Arts and Science	03.09.2024
Faculty Development Program (FDP) on “Find Your Path”	Raja College of Arts and Science	18.07.2024
National Level Seminar on “Biological Science and Sustainable Utilization” (BSSU - 2023)	Raja College of Arts and Science	04.10.2023
A Special Lecture on “Challenges and Opportunities for Biochemistry Students”	Raja College of Arts and Science	23.02.2023
National Level Seminar on Advanced in Applied Biology and Environmental Science (NCAABE - 2020)	Caussanel College of Arts and Science	28.09.2020
Three days Program on Creation of Scientific Awareness for Students, Farmers and Self-help groups.	Caussanel College of Arts and Science	12 th - 14 th Feb 2019

Scientific /Professional Papers Presented/Attended in conference / Seminars/ Workshops

Academic Year	Name of the Conference/Seminar/ Workshop	Place	Duration	Topic of Papers Presented /Attended
2023	International Conference on “Scientific Approach on the Conservation of Biodiversity”	Ramnad	01 Day	Attended
2023	National Seminar on “Recent Trends in Environmental Sustainability”	Covai	02 Days	Attended
2022	“CSIR -Integrated Skill Initiative - Seaweed Cultivation Training”	Mandapam	03 days	Attended

2022	TANSCHHE -“Nuances on Documentation Process: Research Proposal, NAAC & NIRF”	Trichy	01 Day	Attended
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Training / refresher /orientation Programme attended details

Academic Year	Type of the programme	Title	Institution / Company	Duration
2023	“International Short term Training Programme-VI”	Greener living: Reduce, Reuse and Recycle	Raj Rishi Govt. Autonomous College, Rajasthan	01 week
2022	“UGC -IHRDC - Online Refresher Course in Biochemistry & Biotechnology”	Refresher Course in Biochemistry & Biotechnology	UGC -IHRDC	02 weeks
2022	“International Short term Training Programme”	On Methods, Modeling, Data & Tools of Environmental Conservation	Raj Rishi Govt. Autonomous College, Rajasthan	01 week

IV cum Tour Organized (Academic Tour / Field Visit / Industrial Visit)

- ISRO - Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram, Kerala
- Indian Cardamom Research Institute (ICRI), Myladumpara, Idukki
- National Institute of Technology (NIT), Tiruchirappalli - Site Visit
- Pasteur Institute of India, Coonoor
- Tea and Chocolate Factory Visit, Ooty
- Karnataka State Visit - Mysuru and Bengaluru (Academic/Industrial Exposure)
- K.S. Varier’s Ashtanga Ayurvedics (P) Ltd., Tiruchirappalli
- AquAgri Processing Pvt. Ltd., Manamadurai
- Edhayam Frozen Foods Private Limited, Thoothukudi (Tuticorin)