

Dr. A. Arun
Professor and Head

Contact

Address : Department of Microbiology

Alagappa University

Karaikudi - 630 003

Tamil Nadu, INDIA

EmployeeNumber : 14401

Contact Phone (Office) : +91 4565 228095

Contact Phone (Mobile) : +91 94421 26857; 87785 52482

Contact e-mail(s) : <u>arunalacha1@gmail.com</u>

 $\underline{arunalacha@gmail.com}$

Skype id : <u>arunalacha@gmail.com</u>

Website : Nil

Academic and Additional Responsibilities

Degree	Institution	Year	Branch	Class
Ph.D.	Madurai Kamaraj	2010	Microbiology	Highly Commended
	University,	2010	Wilciobiology	
	Madurai			
M.Phil.	Bharathidasan			I
	University, Trichy	2005	Biotechnology	
M.Sc.	Madurai Kamaraj			I
	University,	1999	Microbiology	
	Madurai			

M.Phil.	Bharathidasan			I
	University, Trichy	1997	Botany	

Total Teaching Experience : 22 Years

Position	Institution	Duration
Professor and Head	Department of Microbiology, Alagappa University, Karaikudi	2019 - Till date
Associate Professor and Head (i/c)	Department of Microbiology, Alagappa University, Karaikudi	2016-2019
Assistant Professor	Department of Energy Science, Alagappa University, Karaikudi	2013-2016
Assistant Professor	Thiagarajar College, Madurai	2000-2013

Research Experience

Total Research Experience : 22 Years

Position	Institution	Duration
Professor and Head	Department of Microbiology, Alagappa University, Karaikudi	2019 - Till date
Associate Professor and Head (i/c)	Department of Microbiology, Alagappa University, Karaikudi	2016-2019
Assistant Professor	Department of Energy Science, Alagappa University, Karaikudi	2013-2016
Assistant Professor	Thiagarajar College, Madurai	2000-2013

Academic and Additional Responsibilities

G 3.7	5		Per	iod
S.No	Position	UniversityBodies	From	To
1.	Chief Warden	Men's hostels, Alagappa University, Karaikudi	25.05.2023	Till date.
2.	Editorial Board Member	Microbiological Research (Impact Factor 6.7)	13.06.2023	Till date
3.	Book Editor	Biodegradable Polymers, Blends and Biocomposites: Trends and Applications. CRC Press Taylor and Francis Group (USA) (9781032302492).	2023	2023
4.	Book Editor	Enzymes incorporated nanoparticles their fundamentals concepts, synthesis & applications, Elsevier Academic Press (The Netherlands).	2023	2023
5.	Book Editor	K. Arunkumar, A. Arun , Ramasamy Palaniappan, Rathinam Raja. Algae Materials — Applications Benefitting Health. 2023. Published on 24 February 2023. Paperback ISBN: 9780443188169. eBook ISBN: 9780443188176. Elsevier Science, UK.	2023	2023
6.	Journal Guest Editor – Recent Advancements in Microbial Fuel Cells. 2022. Energies (Impact Factor 3.004).	Energies	2023	-
7.	Dean	Industry and Consultancy, Alagappa University, Karaikudi	07.10.2022	Till date
8.	Co-Ordinator	Business Collaboration Centre	05.11.2022	Till date
9.	Local Co-Ordinator	SPARC Scheme (scheme for Promotion of Academic and Research Collaboration),	20.09.2022	Till date

		Ministry of Education		
10.	Campus Director	Faculty of Science Campus	25.1.2021	24.05.23
11.	Member of Senate	Alagappa University	22.02.2021	Till date
12.	Head of the Department.	Department of Microbiology, Alagappa University	30.01.2019	Till date
13.	Head of the Department In charge	Department of Microbiology, Alagappa University	30.01.2016	29.01.2019
14.	Coordinator	Establishment of Bio-Plastic centre, Alagappa University, Karaikudi	12.5.2020	25.08.2023
15.	Internal Expert	Institutional Biosafety Committee (IBSC), Alagappa University	22.10.2020	22.10.2023
16.	Journal Guest Editor- Environmental Science and Pollution Research (ESPR) - (Impact Factor 4.223).	3 rd International Conference on Recent Trends in Microbiology (RTM-2019) - Environmental Science and Pollution Research (ESPR) / Vol. 28 issue 26, special issue "RTM2019". From Page 33866 to 33966, Springer Publications.2020	2020	-
17.	Journal Guest Editor-Burgeoning trends in Microbiology and Agriculture Sciences - Biocatalysis and Agricultural Biotechnology – Elsevier (Impact Factor 4.0).	Guest Editor -3 rd International Conference on Recent Trends in Microbiology (RTM-2019)- Burgeoning trends in Microbiology and Agriculture Sciences - Biocatalysis and Agricultural Biotechnology – Elsevier Publications.2020.	2020	-
18.	Deputy coordinator	Intellectual property cell, Alagappa University	2018	2019
19.	Journal Editor	Alagappa University Journal of Biological Sciences (AUJBS), Alagappa University, Karaikudi.	2017	2017 1Y
20.	Coordinator	Journal club Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
21.	Member	Coaching scheme for NET exam-, UGC schemes, Alagappa University, Karaikudi	2016	2017
22.	Editor	Chief- ALU-Micro Fanzine, Departmental Magazine, Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date

23.	Deputy Coordinator	Cultural club- Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
24.	Convener	Department Research Committee - Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
25.	Convener	Department purchase Committee - Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
26.	Convener	Department IQAC Committee - Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
27.	Convener	Department student affairs and counseling - Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
28.	Chairman	Valuation board for M.Sc., and M.Phil., Microbiology, Alagappa University	30.01.2016	Till date

Areas of Research

- Bioenergy Microbial Fuel Cell, Microbial Electrolysis Cell, Biohydrogen, Biodiesel, Bioethanol.
- Bioremediation of PAHs, Wastewaters
- **Biomass and Bioplastic composites**
- Bioactive compounds and biosensor materials

Patents Filed

Patent-02

1.	Application No.202241020077 A (India)- A System for Refining Salt Effluent.Publication
	Date: 15/04/2022 -Indian Patent Office.
2.	Application No. 202341081243- Composited Proton Exchange Membrane for a Microbial
	Fuel.Journal Number- 01/2024, Journal Date: 05/01/2024 -Indian Patent Office.
Patent	under Preparation:

Natural CQDs with anticancer and Folic acid sensing assets. 1.

- **2.** Extraction of β-carotene from *Dunaliella salina* grown in Pig Manure.
- **3.** A hybrid system for continuous production of hydrogen from wastewater.

Research Supervision/Guidance

Programm	ne of study	Completed	Ongoing
	PDF	1	1
Research	Ph.D	8	10
	M.Phil	10	1
Project	PG	72	15
	UG/Others	-	-

Publications

Inte	International		ational	Others	
Journals	Conferences	Journals	Conferences	Books/Chapters/Monographs/Manuals	
69	95	9	23	32	

CumulativeImpact Factor(asperJCR) : 463.267

h-index :30i10 index :61TotalCitations :2900

Publications

ThesisEvaluated : 20

VivavoceExaminer : 15

Funded Research Projects

Ongoing Projects:

		Per	iod		
S.No	Agency	From	То	ProjectTitle	Budget (Rs.In
					Lakhs)
1	DST	2022	2025	DST Bioenergy & H ₂ MAP	1140.8705
2	RUSA EIR	2023	2024	Waste to Energy: Large-scale Sewage Treatment Plant (STP) and Production of Green Hydrogen and Bioelectricity Using an Innovative Process	97.00
3	RUSA EIR (Co- PI)	2023	2024	Biochar based inoculum development for sustainable agriculture	9.00
4	RUSA EIR (Student Project)	2023	2024	Novel Proton Exchange Membrane (PEM) for the 96% Overall Cost Reduction In Microbial Fuel Cell (MFC) Based Bioelectricity Generation.	2.00
5	RUSA EIR (Student Project)	2023	2024	Biodegradable Plastic Films From Lignin, Ligno Cellulosic Wastes And Their Biodegradability In Soil And Water.	2.00
6	MHRD – SPARC (SPARC/2018- 2019/P485/SL)	2019	2023	Cost Effective, Modified Microbial Bioplastics [Poly Hydroxyl Butyrate (PHB) And Poly Lactic Acid (PLA)] as an Alternative for the Petroleum Derived	56.57673
				Plastics	

CompletedProjects:

		Period			
S. No	Agency	From	То	ProjectTitle	Budget (Rs.In lakhs)
1	RUSA Phase 2.0 2 nd phase grant	2022	2023	Theme based project in Bioenergy production	4.44
2	RUSA Phase 2.0 1 st phase grant	2019	2021	Utilization of various lingo cellulosic wastes for the biodiesel production by microalgae under heterotrophic condition using Response surface	5.88

				methodology (RSM).	
3	UGC (MICR-2013-19708)	01.06.2015	01.06.2018	Biodegradable plastic (Poly – β – Hydroxybutyrate) production by marine microorganisms isolated from Tamilnadu coastal area	14.8
4	DST-SERB (SB/YS/LS-47/2013)	Nov 2013	Nov 2016	Sequential Two-Stage Fermentation Process Producing Biohydrogen And Bioplastic (PHB) From Industrial Wastes	20.5
5	AURF (AU:SO (P&D): Interdepartmental Research: 2017)	2017	2019	Utilization of <i>Pedalium murex</i> for Biodiesel and Silver Nanoparticles Production	3.0
6	MBAI	2017	2018	Study on the enhancement of bioelectricity production by marine bacteria	0.2
7	UGC	March 2004	March 2005	Production of Poly hydroxybutyrate by using various industrial wastes	0.8
8	UGC	March 2009	March 2011	Polycyclic Aromatic Hydrocarbons (PAHs) Biodegradation by the Wild Basidiomycetes Fungi, Bacterial Isolates from Oil Spilled Soil, and their co-cultures: Comparative <i>In Vivo</i> and <i>In Silico</i> Approach	7.028
9	TNSCST	2002	-	Utilization of different industrial wastes for the production of biopolymer (Polyhydroxy butrate) by using <i>Ralstonia eutropha</i>	0.05
10	FLORA	2003	-	Microbial power generation by using marine sea mud – sea water interface and dairy industry waste – sea water interface	0.05

11	TNSCST	2004	-	Comparison and calibration of microbial power generation by utilizing biowaste	0.05
12	TNSCST	2005	-	Bio degradation of PAH by oil degrading bacteria	0.05
13	TNSCST	2007	2008	Comparative study on cyclosporine production by actinomycetes in liquid state and solid state conditions	0.05
14	TNSCST	2009	2010	A decolourization study of textile dye using ligninolytic enzyme of basidiomycetes fungi	0.05
15	TNSCST	2010	2011	Biohydrogen production by using keratin degraded effluent	0.05
16	TNSCST	2012	2013	Carbon sequestration (Flue gas utilisation) biohydrogen and biodiesel production using algal isolates	0.1
17	TNSCST	2017	2018	Assessment of Various pretreatment methods for enhanced biohydrogen production utilizing various industrial wastes	0.1
18	TNSCST	2018	2019	Biohydrogen and bioplastic (PHB) production from dairy industry wastwater by phototrophic bacteria	0.075

OtherFundReceivedasResearchMentor:Ongoing DST-INSPIRE Fellowship under my Supervision

		Period			
S. No	Agency	From	То	ProjectTitle	Budget (Rs.In lakhs)
1.	DST-INSPIRE (IF220563]) Ms. SUBIDSHA S.U	2024	2029	Microbial fuel cell (MFC) and microbial electrolysis cell (MEC) configuration for low cost bioenergy production utilizing wastewater.	25.00
2.	DST-INSPIRE (IF190230)	2019	2024	Utilization Of Various Industrial Wastes For Different Bioenergy Production	21.088

Ms. Abishpha	Using Aerobic Photohetero Micro Algal	
Bora	Isolates	

Consultancy Projects:

		Per	iod		
S.No	Agency	From	То	ProjectTitle	Budget (Rs.In lakhs)
1.	Sustainable Hydrogen for Valuable Application (SHYVA),	10.05.2023	10.10.2023	Highly efficient electrodes for hydrogen production from water	0.8
	France				
2.	Galaxy Research Technologies, Karaikudi	15.05.2019	15.05.2020	Poly-hydroxyl-Alkonates (PHA) biopolymer research	3.6
3.	TNPCB, TN	2008	2009	Microbial analysis of Vaigai river	1.0

Others:Ongoing/Completed Post doc Fellowship under my Supervision

		Period			
S.No	Agency	From	То	ProjectTitle	Budget (Rs.In lakhs)
1.	DST SERB nPDF Dr. A. Priyadharshini	2024	2026	Application of MFC and MEC	26.928
2.	RUSA 2.0 PDF Dr. R. Karthik Raja	07.08.2019	07.08.2021	Synthesizing of novel bioactive metallic nanoparticles using <i>Xenorhabdus&Photorhabdus</i> and evaluation of their therapeutic potential (antioxidant, antimicrobial and cytotoxic properties)	14.50

Distinctive Achievements / Awards

- 1. Appreciation certificate recognizing the research excellence in acquiring the projects during the academic years 2020-21 to 2022-23, Alagappa University, Karaikudi,05.09.2023.
- 2. Letter of appreciation for contribution for NAAC related work done, Alagappa University, Karaikudi, 30.04.2018.
- 3. Travel grant (Rs 51,000/-) by DBT, India (DBT/CTEP/02/20230253947) to attend "International Conference on Solid Wastes 2023: Waste Management in Circular Economy and Climate Resilience (ICSWHK2023)"at Hong Kong organized by Hong Kong Baptist University and Zhejiang University, Hong Kong; May 31st June 3rd June 2023.
- 4. Travel grant (Rs1,00,000/-) by Alagappa University under RUSA 2.0 scheme to present a research paper at Sixth International Symposium Frontiers in Polymer Science organized by Elsevier Publications and Materials today at Budapest, Hungary on May 05-08th 2019.
- 5. Travel grant (Rs1,95,400/-) by Alagappa University under RUSA 2.0 scheme to for visiting the collaborating SPARC PI Institution and to give Invited lecture at Tianjin University, Tianjin, China from 25.10.2019 to 04.11.2019.
- 6. Dr. APJ Abdul Kalam Award for scientific excellence -2018 by Marina Labs, Chennai, Tamilnadu, India on 13.10.18.
- 7. Travel grant (Rs 1, 17,383/- by DBT (DBT/CTEP/02/201600307 dated Apr 1, 2016) to attend International Conference on Environmental science and Technology. Paper title: Anaerobic and subsequent photosynthetic process for biohydrogen and Bioplastic (PHB) production at Houston, US, American academy of sciences, Texas, Houston, USA; June 06-10, 2016.
- 8. Travel grant (Rs10,000/-) by Centre for International Co-operation in Science (CICS) (DO\Lr.\TF-V\2015-16 dated 3.2.16) to attend 5th annual International Conference on sustainable energy and environmental sciences-2016 (SEES 2016) at Singapore organized by Global science and technology forum, Singapore (GSTF); 22–23Feb, 2016.
- 9. Young scientist award DST-SERB-YSS-2013.
- 10. Radio talk About microbial Power generation in AIR- Madurai on 13.12.2004.

${\bf Number of Seminars\ / Conferences\ / Workshops/\ Eventsorganized:} 30$

Position	Programme	Duration	Institution
Convener and	in 5 th International conference on Recent	26 th Feb and	Department of
organizing	Trends in Microbiology RTM-2024	27 th Feb, 2024	Microbiology, Alagappa
secretary			university, Karaikudi
Convener and	Two days International Symposium of Bio	12 th Sep and	Department of
organizing	plastics (ISB- 2023)	13 th Sep,2023	Microbiology, Alagappa
secretary			university, Karaikudi
Convener and	IPR and Industry- Institutional- MSME	10 th Apr, 2023	Department of
organizing	Collaboration.		Microbiology, Alagappa
secretary			university, Karaikudi
Convener and	one day national level workshop on	30 th Jan, 2023	Industry and consultancy
organizing	patenting and collaborations with industries		wing and university
secretary			business collaboration
			centre.
Convener and	Two days International Conference on	05 th – 06 th Jan,	Department of
organizing	Recent Trends in Microbiology (RTM-	2023	Microbiology, Alagappa
secretary	2023)		university, Karaikudi
Convener and	International Online Short-Term Course on	$03^{rd} - 5^{th}$ May,	Department of
organizing	"Recent Applications of Polymers",	2021.	Microbiology, Alagappa
secretary			university, Karaikudi
Convener and	International Webinar on Mahatma Gandhi	18 th August,	Department of
organizing	(IWMG-2020),	2020.	Microbiology, Alagappa
secretary			university, Karaikudi
Convener	One Day Webinar on Trends in	28 th May, 2020	Department of
	Microbiology		Microbiology, Alagappa
			university, Karaikudi
Organizing	Webinar on Biopolymers: Renewable	27 th May, 2020.	Department of
Secretary	Resources for Human Utilization,		Microbiology, Alagappa
	Organized by Department of Microbiology,		university, Karaikudi
	Alagappa University		
Convener and	Recent Trends in Bioplastics (RTB-2019),	9 th & 10 th	Department of
organizing	Organized by Department of Microbiology,	December,	Microbiology, Alagappa
secretary	Alagappa University	2019	university, Karaikudi
Convener and	Convener and Organizing Secretary –	2 nd April, 2019	Department of
organizing	International Conference on Bioplastics		Microbiology, Alagappa
secretary	(BIOP-2019), Organized by Department of		university, Karaikudi
	Microbiology, Alagappa University		
Convenor	Convener – Distinguished Lecture	1st April, 2019	Department of
	Programme, Organized by Department of		Microbiology, Alagappa
	Microbiology, Alagappa University		university, Karaikudi
Convenor	Convener – 3 rd International Conference on	24 th & 25 th	Department of
	Recent Trends in Microbiology (RTM	January, 2019	Microbiology, Alagappa
	2019), Organized by Department of		university, Karaikudi
	Microbiology, Alagappa University		

Convener and	Convener and Organizing Secretary – 2 nd	11 th & 12 th	Department of
organizing	International Conference on Recent Trends	January, 2018	Microbiology, Alagappa
secretary	in Microbiology (RTM 2018), Organized by		university, Karaikudi
	Department of Microbiology, Alagappa		
	University		
Convener and	Convener - International Conference on	20 th & 21 st	Department of
organizing	Recent Trends in Microbiology (RTM	December,	Microbiology, Alagappa
secretary	2016), Organized by Department of	2016	university, Karaikudi
	Microbiology, Alagappa University		
Organizing	Organizing Committee member in	7 th – 9 th April,	Biosciences Departments,
Committee	International Conference on recent trends in	2016.	Alagappa University,
member	Biosciences (ICRTB 2016). Organized by		Karaikudi
Convener	Convener - National Level Workshop on	$22^{nd}-25^{th}$	Department of
	Commercialization Prospects of Microbial	January, 2018	Microbiology, Alagappa
	Formulates, Organized by Department of		university, Karaikudi
	Microbiology, Alagappa University	2 —th	
Convener and	Convener and Organizing Secretary -	27 th	Department of
organizing	National Level Conference on Trends in	September,	Microbiology, Alagappa
secretary	Microbiology (NCTM-2017), Organized by	2017	university, Karaikudi
	Department of Microbiology, Alagappa		
	University	1.5th To 1	D
Convener and	Convener and Organizing Secretary -	15 th December,	Department of
organizing	National level Workshop on Gas	2016	Microbiology, Alagappa
secretary	Chromatography, Organized by Department		university, Karaikudi
Organizina	of Microbiology, Alagappa University	19 th -	This consist Callege
Organizing Committee	Organizing Committee member in National Seminar cum Workshop on Molecular	21 st March,	Thiagarajar College, Madurai, Madurai
member	_	21 March, 2012.	Madural, Madural
member	Informatics and Drug Designing (MIDD-2012) sponsored by UGC, TNSCST &	2012.	
	DBT, Organized by Thiagarajar College,		
	Madurai, Madurai		
Organizing	Organizing Committee member in National	22 nd & 23 rd	Thiagarajar College,
Committee	Seminar on Environmental Biotechnology:	February	Madurai, Madurai
member	Opportunities & Challenges sponsored by	2007	112000101, 112000101
	CSIR (Govt. of India), Organized by		
	Thiagarajar College, Madurai, Madurai		
Coordinator	Coordinator in National work shop on	11 th March,	Thiagarajar College,
	recent techniques in Biotechnology	2005	Madurai
	sponsored by DBT, CSIR and TNSCST.		
	Organized by Thiagarajar College, Madurai		
Organizing	Organizing Committee member in State	26 th	Thiagarajar College,
Committee	Level Intercollegiate Students' Seminar on	September,	Madurai
member	Biological Control under UGC Autonomy	2012	
	Grant, Organized by Thiagarajar College,		
	Madurai, Madurai		

Organizing	Organizing Committee member in State	26 th	Thiagarajar College,
Committee	Level Intercollegiate Students' Seminar on	September,	Madurai
member	Climate Change: A Global scenario under	2011	
	UGC Autonomy Grant, Organized by		
	Thiagarajar College, Madurai, Madurai		
Organizing	Organizing Committee member in State	23 rd February,	Thiagarajar College,
Committee	Level Intercollegiate Students' Seminar on	2011	Madurai
member	Mining the microbes: a new frontier for		
	natural products under UGC Autonomy		
	Grant, Organized by Thiagarajar College,		
	Madurai, Madurai		
Organizing	Organizing Committee member in State	6 th October,	Thiagarajar College,
Committee	Level Intercollegiate Students' Seminar on	2010	Madurai
member	Microbial Diversity – Exploring the		
	unexplored, Organized by Thiagarajar		
	College, Madurai		
Organizing	Organizing Committee member in State	26 th February,	Thiagarajar College,
Committee	Level Intercollegiate Students' Seminar on	2010	Madurai
member	Man & Environment under UGC Autonomy		
	Grant, Organized by Thiagarajar College,		
	Madurai, Madurai		
Organizing	Organizing Committee member in State	23 rd	Thiagarajar College,
Committee	Level Intercollegiate Students' Seminar on	September,	Madurai
member	Emerging and Re-Emerging infectious	2009	
	diseases – Global trend and Challenges		
	under UGC Autonomy Grant, Organized by		
	Thiagarajar College, Madurai Madurai		
Organizing	Organizing Committee member in State	26 th February,	Thiagarajar College,
Committee	Level Student Seminar on Evolution – From	2009	Madurai
member	Molecules to Mankind, Organized by		
	Thiagarajar College, Madurai		
Organizing	Organizing Committee member in State	28 th February,	Thiagarajar College,
Committee	Level Intercollegiate Student Seminar on	2008	Madurai
member	Global Warming, Organized by Thiagarajar		
	College, Madurai, Madurai		
Organizing	Organizing Committee member in First	5 th March,	Thiagarajar College,
Committee	regional conference on Bioresources under	2012	Madurai
member	UGC Autonomy Grant, Organized by		
	Thiagarajar College, Madurai, Madurai		

Number of Conferences/Seminars/Workshops attended: 162

Specialtraining undergone, additionals kills acquired etc.: 22

S.No				
	Nameof programme	Training/Skills	Nameofthe Institution	Period
1.	Faculty Development (Enrichment) Program	Training	Internal quality assurance cell, Alagappa University, Karaikudi	6 th - 12 th Jan, 2017
2.	Faculty Development Program – Accreditation Preparedness Engagement	Training	Internal quality assurance cell, Alagappa University, Karaikudi	18 - 23 th Sep, 2016
3.	Work shop on Metrohm Autolab Electrochemical instruments for Biosensor, Energy and corrosion applications	Skills	Department of Bioelectronics and Biosensors, Alagappa University-Karaikudi	16 th Feb, 2015
4.	International workshop on Frontier Areas in Chemical Technologies (FACTs-2014)	Training	Department of Industrial Chemistry, Alagappa University, Karaikudi, Tamilnadu	21-22 nd Feb, 2014
5.	Participated in University- Industry interface meet-II	Training	Industry, consultancy cell and centre for university business collaboration, Alagappa University,	28 th April, 2014
6.	World Standards Day (WSD- 2014)	Training	Department of Nanoscience and Technology, Alagappa	14 th Oct, 2014
7.	Training Programme on "Educational Ethos" organized by NAAC-IQAC	Training	Thiagarajar College, Madurai	29 th Mar, 2012
8.	Panel Discussion on Online Examination	Training	Thiagarajar College, Madurai	6 th Sep, 2012
9.	Work shop on Molecular diagnostic methods for ocular and systemic pathogens	Training	Aravind medical research foundation, Madurai	31 st Oct –4 th Nov, 2011 (5 days)
10.	International workshop on Bioremediation	Training	BITS Pilani Campus, Goa campus and Rutgers – The state University of New Jersey, USA	4 th -16 th January, 2010 (12 days)

11.	Work shop on structural bioinformatics and molecular modelling	Training	Centre of excellence in Bioinformatics, School of Biotechnology, MKU, Madurai	25 th – 26 th March,2009
12.	Work shop on electron microscopy	Training	Central electrochemical research institute, Karaikudi	31.7.09- 01.8.09 (2days)
13.	Molecular genetic methods in diabetic retinopathy	Training	Aravind eye research institute Madurai	4th – 14th Feb 2008 (Ten days)
14.	Class room communication skills enhancement training	Training	Thiagarajar College, Madurai	11 th Nov, 2008
15.	Teacher competence enhancement programme	Training	Thiagarajar College, Madurai	22nd – 29 th Nov, 2005 (Eight days)
16.	Modern instrumental methods of analysis	Training	Central electrochemical research institute, Karaikudi	26.9.05 – 1.10.05 (Seven days)
17.	Chromatographic analysis (Gas chromatography)	Training	Advance Training Institute, Ministry of Labour, Directorate General of Employment & Training, Chennai	22-26 Nov 2004 (Five Days)
18.	Spectrophotometric analysis (UV-Vis)	Training	Advance Training Institute, Ministry of Labour, Directorate General of Employment &	21-25 April 2003 (Five Days)
19.	Electrophoresis techniques	Training	The Electrophoresis Institute, Yerkaud	12-17th Dec 2003(6days)
20.	Symposium on Biotechnology at the turn of the millennium	Training	Anna University, Chennai.	4 th and 5 th Feb, 2002
21.	Training in medical Microbiology Lab	Training	Meenakshi Mission Hospital and Research Center, Madurai	15th July – 14th Sep- 1998. (Two Months)
22.	Crash course on applied biology – An update	Training	K.S.R. College of Arts & Science, Tiruchengode.	10 th – 11 th October, 1998

- 1. Visited China from 25.10.2019 to 04.11.2019 as SPARC PI and gave Invited lecture at Tianjin University, Tianjin, China (31.10.2019) and at Beijing Forestry University, Beijing, China (1.11.2019).
- Visited Hungary to present a research paper in Sixth International Symposium Frontiers in Polymer Science organized by Elsevier Publications and Materials today at Budapest, Hungary on May 05-08th 2019.
- 3. Visited Singapore to present a research paper in 5th annual International Conference on sustainable energy and environmental sciences-2016 (SEES 2016) at Singapore organized by Global science and technology forum, Singapore (GSTF); 22–23 Feb, 2016.
- 4. Visited America to present a research paper in International Conference on Environmental science and Technology. Paper title: Anaerobic and subsequent photosynthetic process for biohydrogen and Bioplastic (PHB) production at Houston, US, American academy of sciences, Texas, Houston, USA; June 06-10, 2016.

ProfessionalBodies

- 1. Life Member: Association of Microbiologists of India (Life Membership No. 1354/2001).
- 2. Life Member: American Society for Microbiology (Membership ID: 56653553)
- 3. Life Member: South Indian Microbiologist Association (Life Membership No. SIMAMDU00040).

AdvisoryBoard

Year/Period	Name of the BoS / Administrative Committee / Academic Committee	Role
28.04.2017	Expert, Member of Inspection committee to give	B.Sc.
	affiliation to B.Sc Microbiology at Vidhyaa Giri	Microbiology
	college of arts and science, Puduvayal.	
2017-18 to	Chair person- Board of studies in B.Sc Microbiology	B.Sc.
2019-20	in ALU affiliated colleges, 2017-18 to 2019-20	Microbiology
2017-18 to	Chair person- Board of studies in B.Sc Microbiology	B.Sc.
2019-20	& Clinical Lab Technology in ALU affiliated	Microbiology
	colleges, 2017-18 to 2019-20	
2017-18 to	Chair person- Board of studies in M.Sc	
2019-20	Microbiology in ALU affiliated colleges, 2017-18 to	PG
	2019-20	Microbiology
10.01.2017	Inspection Team Member to visit Pasumpom Thiru	PG
	Muthuramalinga Thevar Memorial College	
	(Affiliated to Alagappa University) and assess the	
	infrastructure and institutional facilities available in	
	Department of Botany	
2016 onwards	Convener - Broad Based Board of Studies (BBOS) for M.Sc., and M.Phil Microbiology,	PG Microbiology

	Alagappa University, Karaikudi	
28.10.2016.	Inspection Team Member to visit M/s. Annai	B.Sc
	Khadeeja Arts and Science College,	Nutrition and
	Edaiyathimangalam road, Kandanivayal,	Dietetics
	Manamelkudi Taluk, Pudukottai District and assess	Programme
	the infrastructure and institutional facilities available	
	for offering of B.Sc Nutrition and Dietetics	
	Programme through Collaborative mode of Alagappa	
	University,	

AcademicBodiesin OtherInstitutes/Universities

Year/Period	NameoftheBoS/AdministrativeCommittee / AcademicCommittee	Role
2019-20 to 2021-22	University Nominee- Board of Studies in Microbiology and Biotechnology at Thaseem Beevi Abdul Kader college of Women, Kilakarai	PG Microbiology
02.02.2019 to 01.02.2022	Member as a Subject Expert to the Board of Studies in Microbiology (U.G & P.G) – J.J. College of Arts and Science (Autonomous), Pudukkottai	UG & PG Microbiology
2017-2020	Member, Board of studies in Biology, Madurai Kamaraj University, Madurai.	PG
2017-2019	Subject Expert- M.Sc Biotechnology Board of Studies, Department of Microbiology, Thiagarajar College, Madurai	PG Microbiology
23.07.2018	Member, Board of studies meeting – UG & PG Microbiology, Bharathidasan university	UG & PG Microbiology
21.05.2018	Member – Board of Studies – School of life sciences, Bharathidasan University	PG
26.04.2018	Subject Expert- Board of studies in M.Sc Biotechnology, Dept. of Biotechnology (MHRD), Thiagarajar College, Madurai	M.Sc Biotechnology
05.09.2017	Chairman, Board of studies , DDE Microbiology, Alagappa University, Karaikudi	PG Microbiology
	Expert, Member of Inspection committee to give affiliation to B.Sc Microbiology at Vidhyaa Giri college of arts and science, Puduvayal on 28.04.2017	
15.03.2017	Academic Auditor to evaluate M.Sc Microbiology revised syllabus (2017-2020),	M.Sc Microbiology

Ph.D. Thesis Guided

S.No	Name of the Scholar	TitleoftheThesis	Year
			ofCompletion
1.	Mr. N. Premnath	Polycyclic Aromatic Hydrocarbon (PAHs) degradation by marine microorganisms by under liquid state fermentative condition	2022
2.	Mr. T. Boobalan	Biodegradation of PAHs and cytotoxicity effects of wild mushrooms from Western Ghasts region: Identifying the active ingredients and pathways	2022
3.	Mrs. N. Rashiya	Screening and characterization of Bioactive compounds from sponge associated micro organisms against infectious human pathogens sss and inhibition of tumour cell growth.	2023
4.	Mr. R. SatheeshMurugan	Identification of Potential Pre-treatment and substrate for Anaerobic Bio-Hydrogen production	2021
5.	Mr. G. Sivaprakash	Biodiesel and silver nanoparticle from seaweed	2021
6.	Mr. K. Mohan Rasu	Biodecolurization of Textile Effluent and Biodiesel Production by Micro algal isolates	2021
7.	Mr. G. H. Dinesh	A two stage modelling and optimization of Biohydrogen and PHB production	2021
8.	Mrs. V. Ananthi	A comparative study on the production and evaluation of Biodiesel using Lignocellulosic waste by microalgae and yeast isolates	2020

Ph.D. Thesis Guiding

S.No	Name of the scholar	Year of registration	Title of the work
1.	Subidsha S.U	2024	Microbial Fuel cell (MFC) and Microbial electrolysis cell (MEC) Configuration for low cost bioenergy production utilizing wastewater
2.	Suba .G	2022	Marine sponge associated bacterial mediated poly cyclic aromatic hydrocarbon (PAHs) Biodegradation

			Cost-effective durable and efficient proton		
3.	A. Abubakkar	2022	exchange membrane (PEM) For microbial fuel		
3.	Siddik	2022	cells (MFC) and microbial electrolysis cells		
			(MEC)		
4.	Aswaja P	2021	Biohydrogen production using microbial		
4.	Aswaja 1	2021	electrolysis cell (MEC)		
5.	Angelin Swetha .T	2020	Optimization of Polylactic acid production		
<i>J</i> .	Angenn Swema .1	2020	utilizing various organic wastes		
6.	Nithya. R	2020	Evaluation of various natural resource derived		
0.	Nunya. K	2020	electrodes in microbial fuel cell system		
			Evaluation of wild mushrooms for their bioactive		
7.	D. Suresh Lingam	2020	and bioremediation potential: integrated invivo		
			and insilico approach		
			Utilization of various industrial wastes for		
8.	Abhispa Bora	2019	different bioenergy production using aerobic		
			photohetero microalagal isolates		
			Evaluation of Microbial Fuel cell systems for		
9.	E. James Obeth	2018	Bioelectricity generation utilizing septic tank		
			waste water		
			Backwater microbial exopolysaccharides;		
10.	10. Ajilda 2014 synthesis, produc		synthesis, production, Molecular characterization		
			and its biotechnological applications		

List of Research Articles / Recent Publications

S. No	Authors/Titleofthepaper/Journal	Impact Factor
	James Obeth Ebenezer Samuel, Nithya Rathinavel,	
	Ananthi Veleeswaran, Boobalan Thulasinathan, Karthik Raja Ramalingam,	
	Yuvakkumar Rathinam and Arun Alagarsamy, New insight on the influence	- 0
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	surface-modified clay cup with stirring effect for bioelectricity production by	
	utilizing septic tank wastewater, Process Safety and Environmental Protection,	
	(2024) https://doi.org/10.1016/j.psep.2024.03.110	
2.	V.Ananthi, Abhispa Bora, U.Ramesh, R.Yuvakkumar, Karthik Raja, Kumar	- 0
	Ponnuchamy, Govarthanan Muthusamy, A.Arun. A review on the technologies	7.8
	for sustainable biohydrogen production, Process Safety and Environmental	

	Protection,	
	(2024) Accepted ref. No PSEP-D-23-04853R1	
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	Arun, A., Basu, M. J., and Saravanan, S. (2024). Simultaneous	
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3.	poly-pyrrole and α-Fe2O3 embedded MoS2 sheets modified	4.8
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32.	Angelin Swetha, T., Mohanrasu, T., Bora, A., Arun , A. , 2022. Chapter 20: Enzyme-incorporated nanotechnology in wastewater treatment. In Handbook of Microbial Nanotechnology. (Ed. Chaudhery Hussain). P 415-438. ISBN: 9780128234266, Academic Press, Publishing Date: March 2022.DOI: https://doi.org/10.1016/B978-0-12-823426-6.00021-8	Book chapter
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	Printers, ISBN: 978-93-84193-72-0.	
	Arun, A., Balasubramanian, V., Sathiamoorthi, T., 2018, 2 nd International	Book
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Resource persons in various capacities

National Conferences : 09

InternationalConferences : 09

InvitedLectures :50

Date :15.03.24

Place :Karaikudi

Dr. A. Arun

Professor and Head