



Dr. A. Arun
Professor and Head

Contact

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Academic and Additional Responsibilities

Degree	Institution	Year	Branch	Class
Ph.D.	Madurai Kamaraj University, Madurai	2010	Microbiology	Highly Commended
M.Phil.	Bharathidasan University, Trichy	2005	Biotechnology	I
PG	Madurai Kamaraj University, Madurai	1999	Microbiology	I
UG	Bharathidasan University, Trichy	1997	Botany	I

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

S. No	Position	University Bodies	Period	
			From	To
1.	Member of Senate	Alagappa University	22.02.2021	Till date
2.	Head of the Department.	Department of Microbiology, Alagappa University	30.01.2019	Till date
3.	Head of the Department In charge	Department of Microbiology, Alagappa University	30.01.2016	29.01.2019
4.	Chief Warden	Men's hostels, Alagappa University, Karaikudi	25.05.23	Till date.
5.	Campus Director	Faculty of Science Campus	25.1.2021	24.05.23
6.	Dean	Industry and Consultancy, Alagappa University, Karaikudi	07.10.2022	Till date
7.	Co-Ordinator	Business Collaboration Centre	05.11.2022	Till date
8.	Local Co-Ordinator	SPARC Scheme (scheme for Promotion of Academic and Research Collaboration), Ministry of Education	20.09.2022	Till date
9.	Coordinator	Establishment of Bio-Plastic centre, Alagappa University, Karaikudi	12.5.2020	25.08.2023
10.	Internal Expert	Institutional Biosafety Committee (IBSC), Alagappa University	22.10.2020	22.10.2023
11.	Coordinator	Journal club Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
12.	Member	Coaching scheme for NET exam-, UGC schemes, Alagappa University, Karaikudi	2016	2017
13.	Editor	Chief- ALU-Micro Fanzine, Departmental Magazine, Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
14.	Deputy Coordinator	Cultural club- Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
15.	Convener	Department Research Committee - Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date

16.	Convener	Department purchase Committee - Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
17.	Convener	Department IQAC Committee - Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
18.	Convener	Department student affairs and counseling - Department of Microbiology, Alagappa University, Karaikudi.	30.01.2016	Till date
19.	Chairman	Valuation board for M.Sc., and M.Phil., Microbiology, Alagappa University	30.01.2016	Till date
20.	Deputy coordinator	Intellectual property cell, Alagappa University	2018	2019
21.	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	-
22.	Journal Guest Editor – Recent Advancements in Microbial Fuel Cells. 2022. Energies (Impact Factor 3.004).	Energies	2023	-
23.	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	-
24.	Journal Editor	Alagappa University Journal of Biological Sciences (AUJBS), Alagappa University, Karaikudi.	2017	2017 1Y
25.	Editorial Board	Microbiological Research (Impact	13.06.2023	Till date

	Member	Factor 6.7)		
26.	Book Editor	Biodegradable Polymers, Blends and Biocomposites: Trends and Applications. CRC Press Taylor and Francis Group (USA) (9781032302492).	2023	2023
27.	Book Editor	Enzymes incorporated nanoparticles their fundamentals concepts, synthesis & applications, Elsevier Academic Press (The Netherlands).	2023	2023
28.	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

Areas of Research

- **Bio energy**
- **Microbial fuel cell**
- **Bioremediation**
- **Biomass and Bio plastic**
- **Bioactive compounds**

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:

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

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

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books/Chapters/Monographs/Manuals
68	95	9	23	32

Cumulative Impact Factor(as per JCR) : 447.667

h-index : 30

i10 index : 59

Total Citations : 2806

Publications

Thesis Evaluated : 20

Viva voce Examiner : 15

Funded Research Projects

Ongoing Projects:

S. No	Agency	Period		Project Title	Budget (Rs. In Lakhs)
		From	To		
1	DST	2022	2025	DST Bio energy & 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 Plastics	56.57673

Completed Projects:

S. No	Agency	Period		ProjectTitle	Budget (Rs.In lakhs)
		From	To		
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 methodology (RSM).	5.88

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>Pedaliium 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	0.05

				utilizing biowaste	
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 wastewater by phototrophic bacteria	0.075

Other Fund Received as Research Mentor: Ongoing DST-INSPIRE Fellowship under my Supervision

S. No	Agency	Period		Project Title	Budget (Rs.In lakhs)
		From	To		
1.	DST-INSPIRE (IF190230) Ms. Abishpha Bora	2019	2024	Utilization Of Various Industrial Wastes For Different Bioenergy Production Using Aerobic Photohetero Micro Algal Isolates	21.088

Consultancy Projects:

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

Others: Ongoing/Completed Post doc Fellowship under my Supervision

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

Distinctive Achievements / Awards

1. Young scientist award – DST-SERB-YSS-2013.
2. Letter of appreciation for contribution for NAAC related work done, Alagappa University, Karaikudi, 30.04.2018.
3. 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.
4. Radio talk - About microbial Power generation in AIR- Madurai on 13.12.2004.
5. 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.
6. 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.
7. Dr. APJ Abdul Kalam Award for scientific excellence -2018 by Marina Labs, Chennai, Tamilnadu, India on 13.10.18.
8. 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.
9. 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.
10. 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.

Number of Seminars /Conferences /Workshops/ Events organized: 30

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

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

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

Number of Conferences/Seminars/Workshops attended : 162

Special training undergone, additional skills acquired etc.: 22

S.No	Name of programme	Training / Skills	Name of the 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, Karaikudi, Tamilnadu	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 & Training, Chennai	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

Overseas Exposure/ Visits

1. 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.
2. 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.
3. 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.
4. 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).

Membership

Professional Bodies

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).

Advisory Board

Year/Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2016 onwards	Convener - Broad Based Board of Studies (BBOS) for M.Sc., and M.Phil Microbiology, Alagappa University, Karaikudi	PG Microbiology
28.04.2017	Expert, Member of Inspection committee to give affiliation to B.Sc Microbiology at Vidhyaa Giri college of arts and science, Pudukkottai.	B.Sc. Microbiology
2017-18 to 2019-20	Chair person- Board of studies in B.Sc Microbiology in ALU affiliated colleges, 2017-18 to 2019-20	B.Sc. Microbiology
2017-18 to 2019-20	Chair person- Board of studies in B.Sc Microbiology & Clinical Lab Technology in ALU affiliated colleges, 2017-18 to 2019-20	B.Sc. Microbiology

2017-18 to 2019-20	Chair person- Board of studies in M.Sc Microbiology in ALU affiliated colleges, 2017-18 to 2019-20	PG Microbiology
10.01.2017	Inspection Team Member to visit Pasumpom Thiru Muthuramalinga Thevar Memorial College (Affiliated to Alagappa University) and assess the infrastructure and institutional facilities available in Department of Botany	PG
28.10.2016.	Inspection Team Member to visit M/s. Annai Khadeeja Arts and Science College, Edaiyathimangalam road, Kandanimayal, Manamelkudi Taluk, Pudukottai District and assess the infrastructure and institutional facilities available for offering of B.Sc Nutrition and Dietetics Programme through Collaborative mode of Alagappa University ,	B.Sc Nutrition and Dietetics Programme

Academic Bodies in Other Institutes / Universities

Year/Period	Name of the BoS / Administrative Committee / Academic Committee	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
2017-2019	Subject Expert- M.Sc Biotechnology Board of Studies, Department of Microbiology, Thiagarajar College, Madurai	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
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
2017-2020	Member, Board of studies in Biology, Madurai Kamaraj University, Madurai.	PG
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), Thiagarajar College, Madurai-	M.Sc Microbiology

Ph.D. Thesis Guided

S. No	Name of the Scholar	Title of the Thesis	Year of Completion
1.	Mr. R. Satheesh Murugan	Identification of Potential Pre-treatment and substrate for Anaerobic Bio-Hydrogen production	2021
2.	Mr. G. Sivaprakash	Biodiesel and silver nanoparticle from seaweed	2021
3.	Mr. K. Mohan Rasu	Biodecolorization of Textile Effluent and Biodiesel Production by Micro algal isolates	2021
4.	Mr. G. H. Dinesh	A two stage modelling and optimization of Biohydrogen and PHB production	2021
5.	Mrs. V. Ananthi	A comparative study on the production and evaluation of Biodiesel using Lignocellulosic waste by microalgae and yeast isolates	2020
6.	Mr. N. Premnath	Polycyclic Aromatic Hydrocarbon (PAHs) degradation by marine microorganisms by under liquid state fermentative condition	2022
7.	Mr. T. Boobalan	Biodegradation of PAHs and cytotoxicity effects of wild mushrooms from Western Ghats region: Identifying the active ingredients and pathways	2022
8.	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

Ph.D. Thesis Guiding

S.No	Name of the scholar	Year of registration	Title of the work
1.	Ajilda	2014	Backwater microbial exopolysaccharides; synthesis, production, Molecular characterization

			and its biotechnological applications
2.	E. James Obeth	2018	Evaluation of Microbial Fuel cell systems for Bioelectricity generation utilizing septic tank waste water
3.	Abhispa Bora	2019	Utilization of various industrial wastes for different bioenergy production using aerobic photohetero microalgal isolates
4.	Angelin Swetha .T	2020	Optimization of Polylactic acid production utilizing various organic wastes
5.	Nithya. R	2020	Evaluation of various natural resource derived electrodes in microbial fuel cell system
6.	D. Suresh Lingam	2020	Evaluation of wild mushrooms for their bioactive and bioremediation potential: integrated <i>invivo</i> and <i>insilico</i> approach
7.	Aswaja P	2021	Biohydrogen production using microbial electrolysis cell (MEC)
8.	Suba .G	2022	Marine sponge associated bacterial mediated poly cyclic aromatic hydrocarbon (PAHs) Biodegradation
9.	A. Abubakkar Siddik	2022	Cost-effective durable and efficient proton exchange membrane (PEM) For microbial fuel cells (MFC) and microbial electrolysis cells (MEC)
10.	Subidsha S.U	2024	Microbial Fuel cell (MFC) and Microbial electrolysis cell (MEC) Configuration for low cost bioenergy production utilizing wastewater

List of Research Articles / Recent Publications

S. No	Authors/ Title of the paper/ Journal	Impact Factor
1.	Raju, C. V., Ramya, R., Imran, K., Basha, C. K., Wilson, J., Boobalan, T., Arun, A., Basu, M. J., and Saravanan, S. (2024). Simultaneous electrochemical detection of dopamine and uric acid based on tri-composite of	4.8

	poly-pyrrole and α -Fe ₂ O ₃ embedded MoS ₂ sheets modified electrode. <i>Microchemical Journal</i> , 110189. https://doi.org/10.1016/j.microc.2024.110189	
2.	Swathi, Srinivasan; Rathinam, Yuvakkumar; Ganesan, Ravi, Arun, Alagarsamy . 2023. Construction of Fe ₂ O ₃ nanoparticles decorated for a highly efficient OER activity. <i>Energy & Fuels</i> . https://doi.org/10.1021/acs.energyfuels.3c01672	5.3
3.	Thirumal. V, R. Yuvakkumar, P. Senthil Kumar, G. Ravi, A. Arun , Ramesh K. Guduru, Dhayalan Velauthapillai. 2023. Bayberry-like Cu ₃ BiS ₃ with 2D layered nanosheets of rGO and g-C ₃ N ₄ for effective electrochemical HER activity. <i>International Journal of Hydrogen Energy</i> , ISSN 0360-3199.	7.139
4.	Mohanasundaram, Y., Arumugam, N., Sarangam, B., Alagarsamy, Arun. , Raja, R. (2023). An Introduction to <i>Haematococcus</i> . In: Raja, R., Hemaiswarya, S., Narayanan, M., Kandasamy, S., Jayappriyan, K. (eds) <i>Haematococcus</i> . Springer, Singapore. August 2023. https://doi.org/10.1007/978-981-99-2901-6_1	Book chapter
5.	Parvathavarthini Murugaperumal, Praveena Rajendran, Sengottuvelan Nallathambi, Siva Ayyanar, Franc Perdih, Ashokkumar Balasubramaniam and Arun Alagarsamy . 2023. An oxalamide-bridged imidazole based ‘turn off’ fluorescent receptor for copper(II) and iron(III) ions. <i>New J. Chem.</i> The Royal Society of Chemistry. 28 July, 2023. Doi - http://dx.doi.org/10.1039/D3NJ02444J	3.925
6.	Kulanthaisamy, M., R. Guru Raj Rao, G. Sivaprakash, T. Angelin Swetha,, Abhispa Bora, P. Balaji, Logeshwaran Panneerselvan and A. Arun . 2023. Bioplastics from microbial and agricultural biomass. Mohanrasu Kulanthaisamy. In Book- Green Sustainable Process for Chemical and Environmental Engineering and Science.413-438. ISBN 978-0-323-95183-8, https://doi.org/10.1016/B978-0-323-95183-8.00007-X	Book chapter
7.	Bora, A., Angelin Swetha, T., Mohanraasu, K., Sivaprakash, G., Balaji, P., Arun, A. , 2023. Chapter 17. Microbial production of biohydrogen (BioH ₂) from waste-activated sludge: Processes, challenges and future approaches. In Book: <i>Advanced Functional Materials for Hydrogen Production, Conversion and Storage</i> . Wiley publication. 511-538. Print ISBN:9781119829348, Online ISBN:9781119829584. https://doi.org/10.1002/9781119829584.ch17	Book chapter
8.	Swathi, S., Yuvakkumar, R., Ravi, G., Arun, A. , & Velauthapillai, D. 2023. Reaction time influence on copper tin sulfide micro flowers for enhanced electrochemical hydrogen evolution reaction (HER) performance. <i>Electrochimica Acta</i> , 142502. Aug, 2023. https://doi.org/10.1016/j.electacta.2023.142502	7.336
9.	Tamilselvan Gokul, Kamatchi Ramesh Kumar, Paulpandian Prema, Alagarsamy Arun , Paulraj Balaji. 2023. Particulate Pollution and its Toxicity to Fish: An Overview. <i>Comparative Biochemistry and Physiology, Part C</i> . Aug, 2023. https://doi.org/10.1016/j.cbpc.2023.109646	4.52
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12.	K. Rameshkumar, V. Ananthi, A. Arun , P. Prema, V. Veeramanikandan, Van-Huy Nguyen, P. Balaji. 2023. <i>Trianthema portulacastrum</i> leaf extract mediated synthesis of silver nanoparticles and elucidation of their larvicidal and antibacterial activities, <i>Materials Today Communications</i> ,2023,105980, ISSN 2352-4928, June 2023. https://doi.org/10.1016/j.mtcomm.2023.105980 .	3.662
13.	T. Angelin Swetha, V. Ananthi , Abhispa Bora, Nallathambi Sengottuvelan, Kumar Ponnuchamy, Govarthanam Muthusamy, A. Arun . 2023. A review on biodegradable polylactic acid (PLA) production from fermentative food waste - its applications and degradation. <i>International Journal of Biological Macromolecules</i> . Volume 234, 15 April 2023, 123703 https://doi.org/10.1016/j.ijbiomac.2023.123703	8.025
14.	T. Angelin Swetha, Abhispa Bora, K. Mohanrasu, P. Balaji, Rathinam Raja, Kumar Ponnuchamy, Govarthanam Muthusamy, A. Arun. 2023. A Comprehensive review on Polylactic Acid (PLA) – Synthesis, Processing and Application in Food Packaging. <i>International Journal of Biological Macromolecules</i> . Volume 234, 15 April 2023, 123715 (Accepted Ref. No. BIOMAC_123715) https://doi.org/10.1016/j.ijbiomac.2023.123715	8.025
15.	Rathinam Raja, Shanmugam Hemaiswarya, Kulandaiyesu Arunkumar, N. Mathiyazhagan, K. Sabariswaran , A. Arun and P. Ramasamy. 2023. Efficacy of <i>Eisenia bicyclis</i> phlorotannins in the treatment of diabetes and reducing inflammation. <i>Food Bioscience</i> . Volume 52, April 2023, 102381 https://doi.org/10.1016/j.fbio.2023.102381	5.318
16.	Thirumal. V, R. Yuvakkumar, P. Senthil Kumar, G. Ravi, A. Arun, Ramesh K. Guduru, Dhayalan Velauthapillai. 2021. Heterostructured two dimensional materials of MXene and graphene by hydrothermal method for efficient hydrogen production and HER activities. <i>International Journal of Hydrogen Energy</i> , ISSN 0360-3199, https://doi.org/10.1016/j.ijhydene.2021.12.045 .	7.139
17.	Arockiya Anita Margret, S. Aishwarya, A. Arun, R. Jasmine. 2023. Chapter 7 - Interface of ‘meta-omics’ in gut biome remediation to unravel the complications of environmental pollutants. In Book- <i>Metagenomics to Bioremediation, Applications, Cutting Edge Tools, and Future Outlook. Developments in Applied Microbiology and Biotechnology</i> . Edts. Vineet Kumar, Muhammad Bilal, Sushil Kumar Shahi and Vinod Kumar. Pages 183-206. https://doi.org/10.1016/B978-0-323-96113-4.00024-X	Book chapter

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21.	Vignesh, B.K., Muthumari, B., Kavitha, M., Praveen Kumar, J.K.J., Thavamurugan, S., Arun, A. , Jothi Basu, M., 2022. Studies on Optimization of Sustainable Lactic Acid Production by <i>Bacillus amyloliquefaciens</i> from Sugarcane molasses through Microbial Fermentation. Sustainability, 14, 7400. https://doi.org/10.3390/su14127400 .	3.251
22.	Chidhambaram, M., Natchimuthu, K., Muniyandi, B., Arun, A. , Kheraif, A.A., Kim, W., Kumar, P., 2022. Extraction, identification, and environmental risk assessment of microplastics in commercial toothpaste. Chemosphere. 296: 133976. https://doi.org/10.1016/j.chemosphere.2022.133976	8.943
23.	Boobalan, T., Tamilmani, J., Arumugam, N., Mohan Rasu, K., Kim, W., Kumar, P., Govarthanam, M., Arun, A. , 2022. Wastewater substrates in microbial fuel cell systems for carbon-neutral bioelectricity generation: An Overview. Fuel. Volume 317 , 1 June 2022, 123369. DOI: https://doi.org/10.1016/j.fuel.2022.123369	8.035
24.	Maya, M.R., Ananthi, V., Arun, A. , Kumar, P., Govarthanam, M., Rameshkumar, R., Veeramanikandan, V., Balaji, P., 2022. Protective efficacy of <i>Capsicum frutescens</i> fruits in pancreatic, hepatic and renal cell injury and their attenuation of oxidative stress in diabetic rats. Journal of Taibah University for Science (TUSC). 15:1, 1232-1243, DOI: https://doi.org/10.1080/16583655.2021.2024998	2.688
25.	Sethupathi, M., Boobalan, T., Sengottuvelan, N., Kumar, P., Perdih, F., Arun, A. , Karthikeyan, M., 2021. Macrocyclic “tet a”-Derived Cobalt(III) Complex with a N,N'-Disubstituted Hexadentate Ligand: Crystal Structure, Photonuclease Activity, and as a Photosensitizer. ACS Omega. DOI: https://doi.org/10.1021/acsomega.1c05306	4.132
26.	Maya, M.R., Rameshkumar, K., Veeramanikandan, V., Boobalan, T., Kumar, M., Eyini, M., Arun, A. , Pugazhendhi, A., Balaji, P., 2022. Evaluation of Antioxidant, anti-inflammatory, and anti-hyperglycemic effects of <i>Wattakaka volubilis</i> Linn. f. Process Biochemistry. 112. 183–191 DOI: https://doi.org/10.1016/j.procbio.2021.12.001	4.885

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28.	Barik, A., Biswal, D., Arun, A. , Balasubramanian, V., 2021. Biodetoxification of Heavy Metals Using Biofilm Bacteria. In Environmental and Agricultural Microbiology (eds B.B. Mishra, S.K. Nayak, S. Mohapatra and D. Samantaray). Pages- 39-61. 24 August 2021. ISBN:9781119526230. Scrivener Publishing LLC. DOI: https://doi.org/10.1002/9781119525899.ch3	Book chapter
29.	Karthik Raja, R., Hazir, S., Govindan, R., Balasubramani, G., Arun, A. , 2022. Chapter 22: Green nanotechnology for the environment. In Handbook of Microbial Nanotechnology. (Ed. Chaudhery Hussain). P- 461-478. ISBN: 9780128234266, Academic Press, Publishing Date: March 2022. DOI: https://doi.org/10.1016/B978-0-12-823426-6.00006-1	Book chapter
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34.	Ananthi, V., Mohanrasu, K., Dinesh, G.H., Arun, A. , 2022. Chapter 17: Pathogen identification through surface marker recognition methods. 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/B978-0-12-823426-6.00014-0	Book chapter

35.	Karthik Raja, R., Nguyen-Tri, P., Balasubramani, G., Arun, A. , Hazir, S., Ladhari, S., Saidi, A., Pugazhendhi, A., Anthoni Samy, A., 2021. SARS-CoV-2 and its new Variants: A Comprehensive Review on Nanotechnological Application Insights into Potential Approaches. Applied Nanoscience. DOI: https://doi.org/10.1007/s13204-021-01900-w	3.869
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Resource persons in various capacities

National Conferences : 09

International Conferences : 09

Invited Lectures : 50

Date :15.03.24

Place :Karaikudi

(Signature)

Dr. A. Arun
Professor and Head