



**Dr. A. Arun**

**Associate Professor and Head (i/c)**

### Contact

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

**Teaching Experience: 19 years**

**Research Experience: 19 years**

## Additional Responsibilities

1. Head of the Department (i/c)
2. Coordinator- Journal club Department of Microbiology, Alagappa University, Karaikudi.
3. Member – Coaching scheme for NET exam-, UGC schemes, Alagappa University, Karaikudi, Aug, 2016
4. Editor in Chief- ALU-Micro Fanzine, Departmental Magazine, Department of Microbiology, Alagappa University, Karaikudi.
5. Deputy Coordinator- Cultural club- Department of Microbiology, Alagappa University, Karaikudi.
6. Convener- Department Research Committee - Department of Microbiology, Alagappa University, Karaikudi.
7. Convener- Department purchase Committee - Department of Microbiology, Alagappa University, Karaikudi.
8. Convener- Department IQAC Committee - Department of Microbiology, Alagappa University, Karaikudi.
9. Convener- Department student affairs and counseling - Department of Microbiology, Alagappa University, Karaikudi.
10. Chairman of Valuation board for M.Sc., and M.Phil., Microbiology, Alagappa University
11. Deputy coordinator, Intellectual property cell, Alagappa University, 2018

## Areas of Research

- **Bioenergy**
- **Microbial fuel cell**
- **Bioremediation**
- **Biomass and Bioplastic**

## Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	-	9
	M.Phil.	8	-
Project	PG	55	8
	UG / Others	-	-

## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
23	45	9	30	15

Cumulative Impact Factor (as per JCR) :	43.188
h-index :	7
i10 index :	7
Total Citations :	292

## Funded Research Projects

### Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC	01.06.2015	01.06.2018	Biodegradable plastic (Poly - $\beta$ - Hydroxybutyrate) production by marine microorganisms isolated from Tamilnadu coastal area	14.8

2	DST-SERB	Nov 2013	Nov 2016	Sequential Two-Stage Fermentation Process Producing Biohydrogen And Bioplastic (PHB) From Industrial Wastes	20.5
3	AURF	2017	2019	Utilization of <i>Pedaliium murex</i> for Biodiesel and Silver Nanoparticles Production	3.0
4	MBAI	2017	2018	Study on the enhancement of bioelectricity production by marine bacteria	0.2
5	UGC	March 2004	March 2005	Production of Poly hydroxybutyrate by using various industrial wastes	0.8
6	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
7	TNSCST	2002		Utilization of different industrial wastes for the production of biopolymer (Polyhydroxy butrate) by using <i>Ralstonia eutropha</i>	0.05
8	FLORA	2003		Microbial power generation by using marine sea mud – sea water interface and dairy industry waste – sea water interface	0.05
9	TNSCST	2004		Comparison and calibration of microbial power generation by utilizing biowaste	0.05

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

### Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	MHRD – SPARC (SPARC/2018-2019/P485/SL)	2019	2021	Cost Effective, Modified Microbial Bioplastics [Poly Hydroxyl Butyrate (PHB) And Poly Lactic Acid (PLA)] as an Alternative for the Petroleum Derived Plastics	56.57673

## Consultancy Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	TNPCB	2008	2009	Microbial analysis of vaigai river	1.0
2	Galaxy Research Technologies	15.05.2019	15.05.2020	Poly-hydroxyl-Alkonates (PHA) biopolymer research	3.6

## Distinctive Achievements / Awards

1. Young scientist award – DST-SERB-YSS
2. Radio talk - About microbial Power generation in AIR- Madurai on 13.12.2004.
3. Travel grant (Rs 1, 17,383/- by DBT (DBT/CTEP/02/201600307 dated Apr 1, 016) 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.
4. 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 5<sup>th</sup> 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.
5. Dr. APJ Abdul Kalam Award for scientific excellence -2018 by Marina Labs, Chennai, Tamilnadu, India on 13.10.18.
6. 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 05-08<sup>th</sup> 2019.

## Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 21

1. International – 06
2. National – 06
3. State level – 08
4. Regional/others – 01

### Detail:

1. Coordinator in National work shop on recent techniques in Biotechnology sponsored by DBT, CSIR and TNSCST. Thiagarajar College, Madurai. 23<sup>rd</sup> Feb – 11<sup>th</sup> March 2005
2. Organizing Committee member in National Seminar on Environmental Biotechnology: Opportunities & Challenges sponsored by CSIR (Govt. of India), Thiagarajar College, Madurai, Feb 22<sup>nd</sup> – 23<sup>rd</sup> 2007.
3. Organizing Committee member in State Level Intercollegiate Student Seminar on Global Warming, Thiagarajar College, Madurai, 28<sup>th</sup> Feb, 2008.
4. Organizing Committee member in State Level Student Seminar on Evolution – From Molecules to Mankind, Thiagarajar College. 26<sup>th</sup> Feb, 2009.
5. Organizing Committee member in State Level Intercollegiate Students' Seminar on Emerging and Re-Emerging infectious diseases – Global trend and Challenges under UGC Autonomy Grant, , Thiagarajar College Madurai,, 23<sup>rd</sup> Sep, 2009
6. Organizing Committee member in State Level Intercollegiate Students' Seminar on Man & Environment under UGC Autonomy Grant, Thiagarajar College, 26<sup>th</sup> Feb, 2010.
7. Organizing Committee member in State Level Intercollegiate Students' Seminar on Microbial Diversity – Exploring the unexplored, Thiagarajar College, 6<sup>th</sup> Oct, 2010
8. Organizing Committee member in State Level Intercollegiate Students' Seminar on Mining the microbes: a new frontier for natural products under UGC Autonomy Grant, Thiagarajar College, 23<sup>rd</sup> Feb, 2011

9. Organizing Committee member in State Level Intercollegiate Students' Seminar on Climate Change: A Global scenario under UGC Autonomy Grant, Thiagarajar College, 26<sup>th</sup> Sep, 2011
10. Organizing Committee member in First regional conference on Bioresources under UGC Autonomy Grant, Thiagarajar College, 5<sup>th</sup> Mar, 2012.
11. Organizing Committee member in National Seminar cum Workshop on Molecular Informatics and Drug Designing (MIDD-2012) sponsored by UGC, TNSCST & DBT, Thiagarajar College, 19-21<sup>st</sup> Mar, 2012.
12. Organizing Committee member in State Level Intercollegiate Students' Seminar on Biological Control under UGC Autonomy Grant, Thiagarajar College, 26<sup>th</sup> Sep, 2012.
13. Organizing Committee member in International Conference on recent trends in Biosciences (ICRTB 2016). Biosciences Departments, Alagappa University, Karaikudi, April 7-09,2016
14. Convener and Organizing Secretary - National level Workshop on Gas Chromatography, Organized by Department of Microbiology, Alagappa University held on 15.12.2016.
15. Convener - International Conference on Recent Trends in Microbiology, Organized by Department of Microbiology, Alagappa University held on 20.12.2016-21.12.2016.
16. Convener and Organizing Secretary - National Level Conference on Trends in Microbiology (NCTM-2017), Organized by Department of Microbiology, Alagappa University held on 27.09.2017.
17. Convener and Organizing Secretary – 2<sup>nd</sup> International Conference on Recent Trends in Microbiology, Organized by Department of Microbiology, Alagappa University held on 11.01.2018 to 12.01.2018.
18. Convener - National Level Workshop on Commercialization Prospects of Microbial Formulates, Organized by Department of Microbiology, Alagappa University held on 22.01.2018-25.01.2018.
19. Convener – 3<sup>rd</sup> International Conference on Recent Trends in Microbiology, Organized by Department of Microbiology, Alagappa University held on 24.01.2019 to 25.01.2019.



20. Convener – Distinguished Lecture Programme, Organized by Department of Microbiology, Alagappa University held on 01.04.2019
21. Convener and Organizing Secretary – International Conference on Bioplastics (BIOP-2019), Organized by Department of Microbiology, Alagappa University held on 02.04.2019.

## Events Participated

### Conferences / Seminars / Workshops: 54

S.No	Detail	Place	Date
1.	Training in medical Microbiology Lab	Meenakshi Mission Hospital and Research Center, Madurai	15th July – 14th Sep-1998. (Two Months)
2.	Crash course on applied biology – An update	K.S.R. College of Arts & Science, Tiruchengode.	10th – 11 <sup>th</sup> October, 1998
3.	Paper presented- International Conference on Frontiers in Fungal Biotechnology and plant Pathogen Relations. Paper Entitled: Bio-control of <i>Fusarium sp</i> and <i>Ramularia sp</i> (Cotton pathogens) by antagonistic fungal Isolates.	Department of Botany, Osmania University, Hyderabad-500 007	16-18 Jan, 1999
4.	State Level Seminar on Food Processing	Yadava College, Madurai	13 – 25 Aug, 2000
5.	Symposium on Biotechnology at the turn of the millennium	Anna University, Chennai.	4 <sup>th</sup> and 5 <sup>th</sup> Feb, 2002
6.	Teacher competence enhancement programme	Thiagarajar College, Madurai	22 <sup>nd</sup> – 29 <sup>th</sup> Nov, 2005 (Eight days)
7.	Spectrophotometric analysis (UV-Vis)	Advance Training Institute, Ministry of Labour, Directorate General of Employment & Training, Chennai	21-25 April 2003 (Five Days)
8.	Electrophoresis techniques	The Electrophoresis	12-17 <sup>th</sup> Dec

		Institute, Yerkaud	2003(6days)
9.	Chromatographic analysis (Gas chromatography)	Advance Training Institute, Ministry of Labour, Directorate General of Employment & Training, Chennai	22-26 Nov 2004 (Five Days)
10.	Modern instrumental methods of analysis	Central electrochemical research institute, Karaikudi	26.9.05 – 1.10.05 (Seven days)
11.	Paper presented- National conference on forest biodiversity resources :Exploitation, conservation and management Paper Entitled: A Preliminary Survey on the Basidiomycetes Diversity of Thandigudi Hills of Western Ghats	Centre for biodiversity and forest studies, Madurai Kamaraj university, Madurai	21 – 22 March, 2006
12.	Paper presented in International conference on Mushroom biology and Biotechnology. Paper Entitled: Comparative Polycyclic Aromatic Hydrocarbons (PAHs) – Biodegradation Potential of Co-cultures Involving Mushroom Fungi and a <i>Pseudomonas</i> Isolate Recovered from Oil spilled Soil	National research centre for Mushroom, Solan, H.P.	Feb 10 - 11, 2007.
13.	Molecular genetics methods in diabetic retinopathy	Aravind eye research institute Madurai	4 <sup>th</sup> – 14 <sup>th</sup> Feb 2008 (Ten days)
14.	Class room communication skills enhancement training	Thiagarajar College, Madurai	11 <sup>th</sup> Nov, 2008
15.	Work shop on structural bioinformatics and molecular modelling	Centre of excellence in Bioinformatics, School of Biotechnology, MKU, Madurai	25 <sup>th</sup> – 26 <sup>th</sup> March, 2009
16.	Work shop on electron microscopy	Central electrochemical research institute, Karaikudi	31.7.09- 01.8.09 (2days)

17.	International workshop on Bioremediation	BITS Pilani Campus, Goa campus and Rutgers – The state University of New Jersey, USA	4 <sup>th</sup> -16 <sup>th</sup> January, 2010 (12 days)
18.	Work shop on Molecular diagnostic methods for ocular and systemic pathogens	Aravind medical research foundation, Madurai	31st Oct –4th Nov, 2011 (5 days)
19.	Training Programme on “Educational Ethos” organized by NAAC-IQAC	Thiagarajar College, Madurai	29 <sup>th</sup> Mar, 2012
20.	Panel Discussion on Online Examination	Thiagarajar College, Madurai	6 <sup>th</sup> Sep, 2012
21.	7 papers presented	National Conference on Emerging Trends and New Challenges in Biotechnology – A Multidisciplinary approach (NCETNCB 2013), Dept. of Biotechnology, MGR college, Hosur, Tamilnadu	24 <sup>th</sup> and 25 <sup>th</sup> of January 2013
22.	Paper presented- International Conference on Recent Advances in Textile and Electrochemical sciences-2013 (RATES-2013). Paper Entitled: Bioplastic production by marine microbes	Department of Industrial Chemistry, Alagappa University, Karaikudi.	21 <sup>st</sup> – 23 <sup>rd</sup> Mar, 2013
23.	International workshop on Frontier Areas in Chemical Technologies (FACTs-2014)	Department of Industrial Chemistry, Alagappa University, Karaikudi, Tamilnadu	21-22 <sup>nd</sup> Feb, 2014
24.	7 papers presented	2 <sup>nd</sup> National Conference on Emerging Trends and New Challenges in Biotechnology – A Multidisciplinary approach (NCETNCB 2014) Dept. of Biotechnology, MGR college, Hosur, Tamilnadu	19 and 20 <sup>th</sup> Feb, 2014

25.	2 Papers presented- International conference on environmental biotechnology and biodiversity (EBIO-2014).	Department of Chemical engineering, AU college of Engineering(A), Andhra University, Visakhapatnam	3-4 <sup>th</sup> Mar, 2014
26.	Participated in University- Industry interface meet-II	Industry, consultancy cell and centre for University business collaboration, Alagappa University, Karaikudi, Tamilnadu	28 <sup>th</sup> April, 2014
27.	UGC sponsored orientation program	Academic staff college, Madurai Kamaraj University, Madurai	2-29 <sup>th</sup> Sep, 2014 (24 days)
28.	3 Papers presented- International conference on Modern Progress in Biotechnology. Straw and Husk Hydrolysates	Bharathidasan Institute of technology (BIT), Anna University, Tiruchirappalli	9-10 <sup>th</sup> Oct, 2014
29.	Attended in World Standards Day (WSD-2014)	Department of Nanoscience and Technology, Alagappa University, Karaikudi, Tamilnadu	14 <sup>th</sup> Oct, 2014
30.	Paper presented: International conference on green energy & green environment. Paper Entitled: Microbial biodiesel production	Department of Microbiology & Biochemistry, NadarSaraswathi College of arts and science,Theni, Tamil Nadu	21 <sup>st</sup> Jan, 2015
31.	Work shop on Metrohm Autolab Electrochemical instruments for Biosensor, Energy and corrosion applications	Department of Bioelectronics and Biosensors, Alagappa University-Karaikudi	16 <sup>th</sup> Feb, 2015
32.	8 papers presented	3 <sup>rd</sup> National Conference on Emerging Trends and New Challenges in Biotechnology – A Multidisciplinary approach (NCETNCB 2015) Dept. of Biotechnology, MGR college, Hosur, Tamilnadu	24 <sup>th</sup> of February 2015

33.	4 Papers presented- Bioprocessing India 2015. Paper Entitled: Isolation, Identification of Biohydrogen producing microbes and Optimization of Substrate and pH using dairy industrial waste.	Department of Biotechnology, IIT Madras, Chennai,	17-19 <sup>th</sup> Dec, 2015
34.	Participated - 8 <sup>th</sup> national symposium cum workshop on recent trends in structural bioinformatics and computer aided drug design.	Department of Bioinformatics, Alagappa University, Karaikudi	16-19 <sup>th</sup> , Feb, 2016
35.	Paper presented- 5 <sup>th</sup> annual International Conference on sustainable energy and environmental sciences-2013 (SEES 2016). Paper Entitled: Poly cyclic aromatic hydrocarbons Biodegradation : Role of ligninolytic enzymes	Global science and technology forum, Singapore (GSTF)	22- 23 <sup>rd</sup> , Feb, 2016
36.	Paper presented- 5 <sup>th</sup> annual International Conference on sustainable energy and environmental sciences-2013 (SEES 2016). Paper Entitled: RSM based optimization of Bioethanol production by <i>Zymomonas mobilis</i> using orange waste and Mahula flower as substrate	Global science and technology forum, Singapore (GSTF)	22- 23 <sup>rd</sup> , Feb, 2016
37.	Paper presented -International Conference on Energy, Environment & Engineering - ICEEE-2016. Paper Entitled: Subsequent Keratinolysis and Biohydrogen Production.	Department of Chemistry and Department of Mechanical Engineering, Coimbatore institute of Technology, Coimbatore	Feb 29, Mar.1 &2,2016
38.	3 Papers presented- International Conference on recent trends in Biosciences (ICRTB 2016). Paper Entitled: Anaerobic process for	Biosciences Departments, Alagappa University, Karaikudi	April 7-09,2016

	biohydrogen and bioplastic (PHB) production using dairy industry waste		
39.	Paper presented - International Conference on Environmental science and Technology. Paper title: Anaerobic and subsequent photosynthetic process for biohydrogen and Bioplastic (PHB) production.	American academy of sciences, Texas, Houston, USA	June 06-10, 2016
40.	Paper presented - International Conference on New horizons. Emerging challenges recent paradigms in food mediated immunity and their role in human health and longevity. Paper title: Degradation and detoxification of aflatoxin B1 by isolate of lactic acid bacteria	Department of Immunology, The American College, Madurai	31 <sup>st</sup> Aug-1 <sup>st</sup> Sep 2016
41.	Paper presented - International Conference on Recent advances in modern medicine: Molecular signaling scenarios in tissues and diseases- RAMM 2016. Paper title: Exploring antibacterial drug from AGNPs of <i>Pedaliium murex</i> - Medicinal plant extract.	Research and Development wing, Sree Balaji Medical College, (Bharath University(BIHER)), Chennai	3 and 4 <sup>th</sup> Sep, 2016
42.	Attended - International Workshop on "Molecular Physiology, Therapeutics and Experimental Medicine"	Department of Animal Health and Management and Department of Bioinformatics, Alagappa University, Karaikudi	6 & 7 <sup>th</sup> Sep, 2016
43.	Participated in the Faculty Development Program – Accreditation Preparedness Engagement	Internal quality assurance cell, Alagappa University, Karaikudi	18 – 23 <sup>rd</sup> Sep, 2016
44.	17 Papers presented - International Conference of Recent Trends in Microbiology (RTM – 2016).	Department of Microbiology, Alagappa University, Karaikudi, India	20 and 21 <sup>st</sup> Dec, 2016
45.	Participated in Faculty	Internal quality assurance	6-12 <sup>th</sup> Jan,

	development (Enrichment) program – Accreditation Quality Enhancement	cell, Alagappa University, Karaikudi	2017
46.	Faculty Enrichment Program	Alagappa University, Karaikudi, India	10.1.17 and 12.1.17
47.	Attended – National Seminar on “ Nanomaterials for specialized application” (NMSA – 2017) and Worlds standard day	Department of Nanoscience and Technology, Alagappa University, Karaikudi, India	10.2.17
48.	9 Papers presented - International Conference of Renewable Energy Science and Technology (ICREST – 2017).	Department of Energy Science, Alagappa University, Karaikudi, India	10 and 11 <sup>th</sup> March, 2017
49.	2 days Training programme on Business Resources of solid waste management through vermicomposting	Department of Animal Health & Management and University Business Collaboration Centre, Alagappa University	14 and 15 <sup>th</sup> March, 2017
50.	17 Papers presented – 2 <sup>nd</sup> International Conference of Recent Trends in Microbiology (RTM – 2018).	Department of Microbiology, Alagappa University, Karaikudi, India	11 and 12 <sup>th</sup> Jan, 2018
51.	1 <sup>st</sup> Two days National Workshop on “Indigenous Cow Management & their Value AddednPeoducts” (ICMVAP-2K18)	Department of Animal Health, Alagappa University, Karaikudi	18 and 19 <sup>th</sup> Jan, 2019
52.	6 Papers presented –RUSA 2.0 and INSA Sponsored 3 <sup>rd</sup> International Conference of Recent Trends in Microbiology (RTM – 2019).	Department of Microbiology, Alagappa University, Karaikudi, India	24 and 25 <sup>th</sup> Jan, 2019
53.	Presented oral presentation entitled “Optimization, Production and Characterization of Polyhydroxybutyrate by <i>Bacillus megaterium</i> Isolated from Marine Environment” in Sixth International Symposium Frontiers in Polymer Science.	Budapest, Hungary organized by Elsevier Publications and Materials today	May 05-08 <sup>th</sup> 2019
54.	Presented oral presentation entitled “Carbon dots- silver	Malaysia organized by Elsevier Publications	16 <sup>th</sup> to 19 <sup>th</sup> June, 2019

	nanohybrid using white-rot mushroom: Metal sensing, bioimaging, antimicrobial, and DNA binding studies” in 6 <sup>th</sup> International Conference on Bio-Sensing Technology		
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### Overseas Exposure / Visits

1. Visited Singapore to present a research paper in 5<sup>th</sup> 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.
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 05-08<sup>th</sup> 2019.

### Membership in

#### 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)

#### Editorial Board

1. Blue Biotechnology Journal - Nova Science Publishers, Inc. United States of America.
2. Journal of Cell Science & Molecular Biology - Open Science Publications- India- 10.8.13



3. Guest Editor - Burgeoning trends in Microbiology and Agriculture Sciences - Biocatalysis and Agricultural Biotechnology – Elsevier Publications.

### **Advisory Board**

#### **Academic Bodies (such as Board of Studies etc.,)**

1. Board of studies member in Microbiology- The Thassim Beevi Abdul Kader College for Women, Kilakarai- 2005.
2. Board of studies member in Microbiology- The Madura college, Madurai- 2010-12
3. Subject Expert- Board studies in M.Sc Biotechnology- National centre for Excellence, Thiagarajar College, Madurai- 16.7.15.
4. Board of studies member in Microbiology- Dept. of Microbiology, Alagappa University, Karaikudi- 2016 (07.03.2016 – 06.03.2019)
5. Member- Inspection commission of Alagappa University, For M.Sc Microbiology programme commencement at Thassim beevi abdul kader college, Kilakarai, Ramanathapuram, 2016.
6. Member- Inspection commission of Alagappa University, For B.Sc Microbiology programme commencement at Syed Ammal Arts and Science College, Ramanathapuram. 2016.
7. 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 , 28.10.16.
8. Subject Expert- Board studies in B.Sc Nutrition and Dietetics - Annai Khadeeja Arts and Science College, Edaiyathimangalam road, Kandanimayal, Manamelkudi Taluk, Pudukottai District, 26.11.16.

9. Chair person- Board of studies in B.Sc Microbiology and B.Sc Microbiology & Clinical lab technology for academic year 2017-18 to 2019-20. Umayal Ramanathan College,, Karaikudi, 14.12.16.
10. Subject Expert- Board studies in M.Sc Biotechnology- National centre for Excellence, Thiagarajar College, Madurai, 26.11.16.
11. Chair person- Board of studies in B.Sc Microbiology in Syed Hameedha Arts and Science College, Kilakarai, Dec, 2016.
12. Chair person- Board of studies in M.Sc Microbiology in ALU affiliated colleges, Kilakarai on December 2016.
13. Member, Board of studies in Biology (2017-2020), Madurai Kamaraj University, Madurai
14. Academic Auditor to evaluate M.Sc Microbiology revised syllabus (2017-2020), Thiagarajar College, Madurai- 28.2.17.
15. Subject Expert- Board studies in M.Sc Biotechnology- National centre for Excellence (MHRD), Thiagarajar College, Madurai- 18.4.17.
16. Expert, Member of Inspection committee to give affiliation to B.Sc Microbiology at Vidhyaa Giri college of arts and science, Puduvayal on 28.4.17.
17. Member, Inspection committee to recognize Approved research centre- Vision Research Foundation, Chennai, 29.1.18.
18. Member, Board of studies in Microbiology, Alagappa University on 30.1.18.
19. Subject Expert- Board of studies in M.Sc Biotechnology, Dept. of Biotechnology (MHRD), Thiagarajar College, Madurai- 26.4.18.
20. Nominated as member- Board of studies in Microbiology,- Bharathidasan university -9.5.18
21. Special Invitee, Board of studies meeting, Dept. of life science, Bharathidasan university on 21.5.18.

22. Member, PG Microbiology equivalence meeting at Tamilnadu state council for higher education (TANSICHE) - 25.5.18.
23. Member, UG Microbiology equivalence meeting at Tamilnadu state council for higher education (TANSICHE) – 5.6.18.
24. Member, Board of studies meeting - UG & PG Microbiology, Bharathidasan university on 23.7.18.
25. Member, Board of studies in Microbiology (U.G. & P.G.) for a period of three years (02.02.2019-01.02.2022), J.J.College of Arts and Science (Autonomous), Pudukkottai, Tamil Nadu – 11.02.2019.
26. Convener - Broad Based Board of Studies (BBOS) for M.Sc., and M.Phil Microbiology - 2.4.19
27. Subject Expert- M.Sc Biotechnology Board of Studies, Department of Microbiology, Thiagarajar College, Madurai on 23.4.19.
28. University Nominee- Board of Studies in Microbiology and Biotechnology at Thaseem Beevi Abdul Kader college of Women, Kilakarai (for 2019-20 to 2021-22) on 7.5.19.
29. Member of Inspection committee to inspect academic and infrastructural facilities for B.Sc Microbiology programme at Syed Ammal arts and science college, Ramanathapuram- 22.5.19
30. Preparation of Course material- for Alagappa University, DDE M.Sc Botany- 34631- Microbiology and Plant Physiology- 1-7 Units - 26.6.19.
31. Special Invitee- 69<sup>th</sup> meeting of standing committee on academic affairs- 27.06.2019.

## **Others**

1. Visiting Faculty- Course- M.Tech Environmental Engineering - Thiagarajar College of engineering - August – November, 2007 and August – November, 2009 (Two Semester)

2. Visiting Faculty- Course- M.Tech Environmental Engineering - Thiagarajar College of engineering – 1<sup>st</sup> Semester (2012-13).
3. Reviewer in reputed journals like Bioresource technology, Process Biochemistry, Applied Biochemistry and Biotechnology, Applied Microbiology and Pedosphere.
4. External examiner- M.Phil Zoology, Thiagarajar College, Madurai- 4.8.15.
5. Appointed as question paper setter for PG, The Madura College (Autonomous), Madurai – 14.03.2016.
6. Chairman- M.Sc Microbiology question paper setting, Apr, 2016. Bharathidasan University, Trichy- 1.3.16
7. External Examiner, Syed hameedha arts and science college, Kilakarai. 29.3.16- 31.3.16.
8. Member, Board of the examiner, PG Microbiology project, Lady doakcollege , Madurai. 4.4.16.
9. Special Invitee, standing committee of academic affairs, Alagappa University, Karaikudi on 3.6.16.
10. Member, Board of Ph.D viva in Biochemistry, Madurai Kamaraj University centre- Centre for research in Medical entomology, Madurai on 29.6.16.
11. External examiner- M.Phil Biotechnology, MGR college, Hosur. 26.7.16.
12. External examiner- M.Phil Microbiology question paper setting, Bharathidasan University, Trichy- 20.9.16
13. Chairman- University rank examination question paper setting, Bharathidasan University, Trichy- 26.9.16
14. Chairman- M.Sc Microbiology question paper setting, Nov,2016.Bharathidasan University, Trichy- 26.9.16
15. Special Invitee, standing committee of academic affairs, Alagappa University, Karaikudi on 3.10.16

16. Reviewer- Project proposal submitted to DST-SERB- File Name : EMR/2016/001335  
- Proposal Title : Studies on the biodiversity, abundance of sulphur oxidizing bacteria in varied ecosystems and relationship of soxB functional gene in sulphur oxidation. 15.10.16.
17. External Examiner- M.Sc Biotechnology, Thiagarajar College, Madurai – 625 009-21.10.16
18. External Examiner, Dr.Umayal Ramanathan Womens college, Karaikudi – 24.10.16  
27.10.16 & 31.10.16.
19. Special Invitee, senate meeting, Alagappa University, Karaikudi on 25.11.16
20. Chairman of Valuation board for M.Sc., Microbiology Examination of December 2016  
– 28.11.2016, Bharathidasan University.
21. Research Inspection committee member to visit Aravind Medical Research Foundation (AMRF), 2016.
22. Inspection Team Member to visit Department of Botany, Pasumpon Thiru Muthuramalinga Thevar Memorial College, Kamuthi and assess the infrastructure and expertise available for Revival of Approved Research Centre of Alagappa University on 20 December, 2016.
23. Chairman- M.Sc Microbiology question paper setting, April, 2017. Bharathidasan University, Trichy- 16.2.17.
24. Visiting faculty, Department of Microbiology, The Thassim Beevi Abdul Kader College for Women, Kilakarai- 20.2.17.
25. Editorial Board Member, Multidisciplinary journal, The Thassim Beevi Abdul Kader College for Women, Kilakarai- 20.2.17.
26. Special Invitee, standing committee of academic affairs, Alagappa University, Karaikudi on 23.2.17.

27. Member, National Advisory committee, International conference on Renewable energy science and technology (ICREST – 2017), Organized by Department of Energy Science, Alagappa University, Karaikudi.
28. Examiner - Paper evaluation- B.Voc course , Alagappa University, April, 2017.
29. Member of Inspection committee – DDE learning centre- Bargur- 10.5.17.
30. Squad member of DDE exam May 17- Ambasamudram, Surandai, Tenkasi and Alangulam.
31. Special Invitee, senate meeting, Alagappa University, Karaikudi on 21.7.17.
32. Member of selection committee for selecting Assistant professor in Microbiology at Central University of Tamilnadu on 1.7.17.
33. Stock verification Officer, Department of English, Alagappa University, Karaikudi- 24.7.17.
34. Chairman- M.Sc Microbiology question paper setting, Nov, 2017. Bharathidasan University, Trichy- 8.8.17.
35. Appointed as a question paper setter for Feb. 2018 for M.Phil Degree Examination, Bharathidasan University, Tiruchirappalli – 23.08.2017.
36. Appointed as member of the Board of Examiner for Nov. 2017 PG examination, Lady Doak College (Autonomous), Madurai – 14.09.2017.
37. Reviewed – DST-SERB Project proposal entitled “Antidiabetic and Antioxidant activities of probiotic Lactobacillus spp. Isolated from indigenous healthy human gut flora and North Indian fermented food” submitted by Sukhraj Kaur, Assistant Professor, Dept. of Microbiology, Guru Nanak Dev University, Amristar, Punjab (File No: EMR/2017/005212) on 17.10.2017.
38. Special Invitee – Standing committee on academic affairs meeting, Alagappa University, Karaikudi, 30.10.17.
39. Member-Data collection committee - IQAC, Alagappa University, Karaikudi, 30.10.17

40. Chairman of the Valuation board for M.Sc Microbiology exam paper evaluation, Alagappa University, Karaikudi, Nov 2017.
41. Chairman for Question paper setting for M.Sc Microbiology examination, Apr, 2018, Bharathidasan University, Trichy.
42. Special Invitee, Standing committee meeting, Alagappa University on 13.3.18.
43. External practical examiner for UG microbiology- Umayal College, Karaikudi, April, 2018.
44. Special Invitee, Senate meeting, Alagappa University on 10.5.18.
45. M.Sc Microbiology entrance QP setting- Periyar University, 18.5.18.
46. Special Invitee, Syndicate meeting, Alagappa University on 30.5.18.
47. Chairman- M.Sc., Microbiology, Distance Education - question paper setting, Alagappa University, Karaikudi - 7.6.18
48. Chairman- University Rank examination, 2018 – M.Sc., Microbiology - question paper setting, Bharathidasan University, Trichy- 9.7.18
49. Chairman for Question paper setting for M.Sc Microbiology examination, Nov, 2018, Bharathidasan University, Trichy. 25.08.2018
50. Special Invitee, 68<sup>th</sup> Standing committee of academic affairs, Alagappa University, Karaikudi on 22.11.2018.
51. QP Setter M.Phil Microbiology, Feb, 2019. Bharathidasan University, Trichy- 05.12.2018.
52. Chairman- M.Sc., Microbiology, May 2019, Distance Education - question paper setting, Alagappa University, Karaikudi – 07.02.2019
53. QP Setter - Feb, 2019 Examination - B.Sc., Catering Science and Hotel Management, Sri Krishna Arts and Science College (Autonomous), Coimbatore - 09.02.2019.
54. QP setter B.Sc Microbiology Examination, Bharathidasan University, Trichy- Apr, 2019. 07.03.2019

55. Chairman, M.Sc Microbiology Examination, Bharathidasan University, Trichy- Apr, 2019. – 11.03.2019

56. QP setter M.Phil Microbiology Examination, Bharathidasan University, Trichy- Apr, 2019.- 21.03.2019

57. Practical Examiner for B.Sc Microbiology, Syed Hameedha College, Kilakarai – 22.03.2019 & 23.03.2019 (2 days).

### Resource persons in various capacities

Number of Invited / Special Lectures delivered: 26

### Others

1. Articles published in Newspapers / Magazines : 0
2. No. of PhD Thesis evaluated : 05
3. No. of PhD Public Viva Voce Examination conducted : 03
4. Sequences submitted in Genbank – 53

### Sequence submitted in GenBank

#### Bacteria - 36

1. **Arun,A.**, Karthika, Nithyakalyani, Karthicksundaram and Balashankar. *Bacillus subtilis* strain Bio AA1 16S ribosomal RNA gene, partial sequence. LOCUS: FJ966219 1401 bp DNA linear BCT 27-MAY-2009.
2. **Arun,A.**, Karthika, Nithyakalyani, Karthicksundaram and Balashankar. *Bacillus sp.* Bio AA2 16S ribosomal RNA gene, partial sequence. LOCUS FJ966220, 1466 bp DNA linear BCT 27-MAY-2009.
3. **Arun,A.**, KarthickSundaram, Balashankar, Nithyakalyani and Karthika. *Bacillus subtilis* strain Bio AA3 16S ribosomal RNA gene, partial sequence. LOCUS FJ966221, 1448 bp DNA linear BCT 27-MAY-2009



4. **Arun,A.**, KarthickSundaram, Balashankar, Karthika and Nithyakalyani. *Bacillus subtilis* strain Bio AAF1 16S ribosomal RNA gene, partial sequence. LOCUS FJ966222, 1450 bpDNAlinear BCT 27-MAY-2009.
5. **Arun,A.**, Nithyakalyani, Karthika, Balashankar and KarthickSundaram. *Bacillus subtilis* strain Bio AAS1 16S ribosomal RNA gene, partial sequence. LOCUS FJ966223, 1408 bp DNA linear BCT 27-MAY-2009.
6. Eyini, **Arun,A.**, Arthi,S., Shobana and Ananthi. *Bacillus pumilus* 16S ribosomal RNA gene, partial sequence. LOCUSFJ750449, 486 bp DNA linear BCT 14-MAR-2009.
7. **Arun,A.**, Shobana, Arthi,S. and Ananthi. *Bacillus cereus* 16S ribosomal RNA gene, partial sequence. LOCUS FJ750450 461 bp DNA linear BCT 14- MAR-2009.
8. **Arun,A.**, Arthi,S., Immanuel,c. and Eyini. *Bacillus cereus* isolate MC1 16S ribosomal RNA gene, partial sequence. LOCUS EU735070, 481 bp DNA linear BCT 17-JUN-2008.
9. **Arun,A.**, Arthi,S., Immanuel,C. and Eyini. *Bacillus mycooides* isolateMR716S ribosomal RNA gene, partial sequence. LOCUS EU735071, 461 bp DNA linear BCT 17-JUN-2008.
10. Veeramanikandan,V., Mrudula,S. and **Arun,A.** *Aeromonas sp.* B4 16S ribosomal RNA gene, partial sequence. LOCUS GQ505370621, bp DNA linear BCT 30-SEP-2009.
11. Veeramanikandan,V., Mrudula,S. and **Arun,A.** *Arthrobacter sp.* B3(2009) 16S ribosomal RNA gene, partial sequence. LOCUS GQ505369, 951 bp DNA linear BCT 30-SEP-2009.
12. Veeramanikandan,V., Mrudula,S. and **Arun,A.** *Pseudomonas sp.* B2(2009) 16S ribosomal RNA gene, partial sequence. LOCUS GQ505368, 681 bp DNA linear BCT 30-SEP-2009.
13. Veeramanikandan,V., Mrudula,S. and **Arun,A.** *Pseudomonas sp.* B1(2009) 16S ribosomal RNA gene, partial sequence. LOCUS GQ505367, 558 bp DNA linear BCT 30-SEP-2009.
14. **Arun, A.**, Dinesh, G., and Satheesh Kumar, R. *Pseudomonas aeruginosa*. ANF2 (2015) 16S ribosomal RNA gene, partial sequence. LOCUS KR809373, 1463 bp DNA linear BCT 26-OCT-2015.
15. **Arun, A.**, Dinesh, G., and Satheesh Kumar, R. *Bacillus cereus*. ANA3 (2015) 16S ribosomal RNA gene, partial sequence. LOCUS KR809374, 1505 bp DNA linear BCT 26-OCT-2015.

16. **Arun, A.**, Satheesh Kumar, R and Dinesh, G. *Acinetobacter junii*. AH4 (2015) 16S ribosomal RNA gene, partial sequence. LOCUS KR809375, 51452 bp DNA linear BCT 26-OCT-2015.
17. **Arun, A.**, Satheesh Kumar, R and Dinesh, G. *Bacillus thuringiensis*. FH1 (2015) 16S ribosomal RNA gene, partial sequence. LOCUS KR809376, 1469 bp DNA linear BCT 26-OCT-2015.
18. **Arun, A.**, Satheesh Kumar, R and Dinesh, G. *Klebsiella pneumoniae*. FA2 (2015) 16S ribosomal RNA gene, partial sequence. LOCUS KR809377, 1458 bp DNA linear BCT 26-OCT-2015.
19. **Arun, A.**, Satheesh Kumar, R and Dinesh, G. *Comamonas testosteroni*. FB1 (2015) 16S ribosomal RNA gene, partial sequence. LOCUS KR809378, 1554 bp DNA linear BCT 26-OCT-2015.
20. **Arun, A.**, Satheesh Murugan, R and Dinesh, G. *Bacillus thuringiensis*. RH1 (2016) 16S ribosomal RNA gene, partial sequence. LOCUS KU901700, 1493 bp DNA linear BCT 04-APR-2016.
21. **Arun, A.**, Satheesh Murugan, R and Dinesh, G. *Bacillus aerophilus*. RH2 (2016) 16S ribosomal RNA gene, partial sequence. LOCUS KU902032, 1491 bp DNA linear BCT 04-APR-2016.
22. **Arun, A.**, Satheesh Murugan, R and Dinesh, G. *Bacillus cereus*. SB2 (2016) 16S ribosomal RNA gene, partial sequence. LOCUS KU902033, 1504 bp DNA linear BCT 04-APR-2016.
23. Sathish, R., Dinesh, G. and **Arun, A.** *Bacillus beringensis*. AARAT1 (2016) 16S ribosomal RNA gene, partial sequence. LOCUS KX169276, 1100 bp DNA linear BCT 16-JUL-2016.
24. Nagalakshmi, M., Karuppuchamy, S., **Arun, A.**, Satheeshmurugan, R. and Dinesh,G.H. *Rummeliibacillus pycnus*. M1 (2016) 16S ribosomal RNA gene, partial sequence. LOCUS KX576661, 1327 bp DNA linear BCT 31-JUL-2016.
25. Boobalan, T., Govindarajan, R., Samsudeen, N., Arumugam, N., Jothi Basu, M. and **Arun, A.** *Serratia marcescens* AATB1 (2017) 16S ribosomal RNA gene, partial sequence. LOCUS KY468268, 815 bp DNA linear BCT 23-JAN-2017.
26. Boobalan, T., Govindarajan, R., Samsudeen, N., Arumugam, N., Jothi Basu, M. and **Arun, A.** *Klebsiella pneumoniae* AATB2 (2017) 16S ribosomal RNA gene, partial sequence. LOCUS KY465496, 763 bp DNA linear BCT 23-JAN-2017.

27. Boobalan, T., Govindarajan, R., Samsudeen, N., Arumugam, N., Jothi Basu, M. and **Arun, A.** *Cronobacter sakazakii* AATB3 (2017) 16S ribosomal RNA gene, partial sequence. LOCUS KY465497, 883 bp DNA linear BCT 23-JAN-2017.
28. Boobalan, T., Govindarajan, R., Samsudeen, N., Arumugam, N., Jothi Basu, M. and **Arun, A.** *Pseudomonas otitidis* AATB4 (2017) 16S ribosomal RNA gene, partial sequence. LOCUS KY465498, 603 bp DNA linear BCT 23-JAN-2017.
29. Mohan Rasu, K., Sivaprakash, G., Dinesh, G.H., Premnath, N., Jothi Basu, M. and **Arun, A.** *Brevibacillus borstelensis* strain AAMR1 (2017) 16S ribosomal RNA gene, partial sequence. LOCUS KY494860, 1479 bp DNA linear BCT 29-JAN-2017.
30. Premnath, N., Mohan Rasu, K., Sivaprakash, G., Dinesh, G.H., Jothi Basu, M. and **Arun, A.** *Klebsiella pneumoniae* strain AANP1 (2017) 16S ribosomal RNA gene, partial sequence. LOCUS KY494861, 1475 bp DNA linear BCT 29-JAN-2017.
31. Mohan Rasu, K., Sivaprakash, G., Dinesh, G.H., Premnath, N., Satheesh Murugan, R., Jothi Basu, M. and **Arun, A.** *Micrococcus luteus* strain AAMR2 (2017) 16S ribosomal RNA gene, partial sequence. LOCUS KY494862, 1464 bp DNA linear BCT 29-JAN-2017.
32. Nagalakshmi, M., Karuppuchamy, S., **Arun, A.**, Jothi Basu, M., Satheesh Murugan, R. and Dinesh, G. *Bacillus cereus* strain A1 (2017). 16S ribosomal RNA gene, partial sequence. LOCUS MF726967, 1267 bp, DNA linear, BCT 30-AUG-2017.
33. Boobalan, T., Arumugam, N., **Arun, A.**, Jothibas, M. and Sureshlingam, G. *Chryseobacterium gleum* isolate MSS small subunit ribosomal RNA gene, partial sequence. LOCUS MH050745, 1175 bp DNA linear BCT 19-MAR-2018.
34. Dinesh, G.H., and **Arun, A.** *Pseudomonas aeruginosa* strain KHAD3. (2018). 16S ribosomal RNA gene, partial sequence. LOCUS MH422009, 1388 bp, DNA linear. BCT 07-JUN-2018.
35. Dinesh, G.H., and **Arun, A.** *Serratia marcescens* strain KHAD1. (2018). 16S ribosomal RNA gene, partial sequence. LOCUS MH422128, 1390 bp, DNA linear. BCT 07-JUN-2018
36. Dinesh, G.H., and **Arun, A.** *Bacillus subtilis* strain KHAD2. (2018). 16S ribosomal RNA gene, partial sequence. LOCUS KY494862, 1218 bp, DNA linear. BCT 07-JUN-2018.

## Fungi - 14

37. Jeyakanthan, J., Mohan Rasu, K., Boobalan, T., Dinesh, G.H., Mariadasse, R., Suresh Lingam, T. and **Arun, A.** *Psathyrella candolleana*. isolate JJAA1 (2016) internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence.. LOCUS KX022942, 653 bp DNA linear BCT 26-APR-2016.
38. Jeyakanthan, J., Mohan Rasu, K., Boobalan, T., Dinesh, G.H., Mariadasse, R., Suresh Lingam, T. and **Arun, A.** *Psathyrella candolleana*. isolate JJAA2 (2016) internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence.. LOCUS KX022943, 681 bp DNA linear BCT 26-APR-2016.
39. Jeyakanthan, J., Mohan Rasu, K., Boobalan, T., Dinesh, G.H., Mariadasse, R., Suresh Lingam, T. and **Arun, A.** *Coprinus sterquilinus*. isolate JJAA3 (2016) internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence.. LOCUS KX022944, 637 bp DNA linear BCT 26-APR-2016.
40. Ananthi, V. and **Arun,A.,** *Pichia kudriavzevii* strain AV1, (2017) small subunit ribosomal RNA gene , partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence. LOCUS MF926445, 499 bp DNA linear PLN 13-SEP-2017.
41. Ananthi, V. and **Arun, A.,** *Candida albicans* isolate AV1, (2018) 26S ribosomal RNA gene, partial sequence. LOCUS MG996750, 409 bp DNA linear PLN 04-MAR-2018.
42. Arumugam, N., Kavitha, T., Boobalan, T., **Arun, A.,** Jothi Basu, M. and Suresh Lingam, G. *Rhodotorula mucilaginosa* isolate GPJPh3 (2018) large subunit ribosomal RNA gene, partial sequence. LOCUS MH000318, 1159 bp DNA linear PLN 04-MAR-2018.
43. Arumugam, N., Kavitha, T., Boobalan, T., **Arun, A.,** Jothi Basu, M. and Sureshlingam, G. *Meyerozyma caribbica* isolate ORJPh4 (2018) large subunit ribosomal RNA gene, partial sequence. LOCUS MH000319, 962 bp DNA linear PLN 04-MAR-2018.

44. Arumugam, N., Kavitha, T., Boobalan, T., **Arun, A.**, Jothi Basu, M. and Sureshlingam, G. *Pichia kluyveri* isolate ORPJP4 (2018) large subunit ribosomal RNA gene, partial sequence. LOCUS MH000320, 1171 bp DNA linear PLN 04-MAR-2018.
45. Arumugam, N., Kavitha, T., Boobalan, T., **Arun, A.**, Jothi Basu, M. and Suresh Lingam, G. *Saccharomycopsis crataegensis* isolate LMJPh2 (2018) large subunit ribosomal RNA gene, partial sequence. LOCUS MH000321, 1172 bp DNA linear PLN 04-MAR-2018.
46. Arumugam, N., Kavitha, T., Boobalan, T., **Arun, A.**, Jothi Basu, M. and Suresh Lingam, G. *Galactomyces candidum* isolate PAJPh5 (2018) large subunit ribosomal RNA gene, partial sequence. LOCUS MH000322, 1159 bp DNA linear PLN 04-MAR-2018.
47. Ananthi, V. and **Arun, A.**, *Pichia kudriavzevii* isolate AV2 internal transcribed spacer 2 and large subunit ribosomal RNA gene, partial sequence. LOCUS MH000699, 570 bp DNA linear PLN 05-MAR-2018.
48. Ananthi, V. and **Arun, A.**, *Rhodotorula mucilaginosa* isolate AV1, (2018) internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence. LOCUS MH279637, 308 bp DNA linear PLN 08-MAY-2018
49. Ananthi, V. and **Arun, A.**, *Pichia manshurica* isolate AV1 internal transcribed spacer 1 and 5.8S ribosomal RNA gene, partial sequence. LOCUS MH279643, 209 bp DNA linear PLN 08-MAY-2018.
50. Arumugam, N., Kavitha, T., Boobalan, T., **Arun, A.**, Jothi Basu, M. and Saravanan, S. *Meyerozyma caribbica* xylose reductase mRNA, complete cds. LOCUS MH286916, 954 bp DNA linear PLN 07-JUL-2018.

## **Microalgae - 2**

51. Mohan Rasu, K., Dinesh, G. and **Arun, A.** *Acutodesmus obliquus*. Isolate 1 (2016) small subunit ribosomal RNA gene, partial sequence. LOCUS KX169274, 1536 bp DNA linear BCT 16-JUL-2016.
52. Mohanrasu, K., Dinesh, G. and **Arun, A.** *Acutodesmus obliquus*. Isolate 2 (2016) small subunit ribosomal RNA gene, partial sequence. LOCUS KX169275, 1570 bp DNA linear BCT 16-JUL-2016.

## **Protein - 1**

53. Arumugam, N., Kavitha, T., Boobalan, T., **Arun, A.**, Jothi Basu, M. and Saravanan, S. xylose reductase [*Meyerozyma caribbica*]. LOCUS AWX90327, 317 aa linear PLN 07-JUL-2018.

### Recent Publications

1. Sivaprakash, G., Mohanrasu, K., Ananthi, V., Jothibas, M., Nguyend, D.D., Ravindran, B., Chang, S.W., Nguyen-Tri, P., Tran, N.H., Sudhakar, M., Gurunathan, K., Arokiyaraj, S., Arun, A. 2019. Biodiesel production from *Ulva linza*, *Ulva tubulosa*, *Ulva fasciata*, *Ulva rigida*, *Ulva reticulate* by using  $Mn_2ZnO_4$  heterogenous nanocatalysts. Fuel, Vol 255 (115744). (**IF 5.128**).
2. Thulasinathan Boobalan, Samsudeen Nainamohamed, James Obeth Ebenezer Samuel , Saravanan Soorangkattan, JothiBasu Muthuramalingam, Mohanrasu Kulanthaisamy , R. Balasubramani, D. Duc Nguyene,, S. Woong Chang, Nanthi Bolan, Yiu Fai Tsangh , Leonel Ernesto Amabilis-Sosa, **Arun Alagarsamy**. 2019. Comparative study on *Cronobacter sakazakii* and *Pseudomonas otitidis* isolated from septic tank wastewater in microbial fuel cell for bioelectricity generation. Fuel 248 (2019) 47–55. (**IF 5.128**).
3. Sivaprakash, G., Mohan, R.K., Dinesh, G.H., Ananthi, V., Boobalan, T., Jothi, B.M., Ravindran, B., Soon, W.C., Arokiyaraj, S., Ke, D., **Arun, A.** 2019. Environmental friendly synthesis of  $TiO_2$ -ZnO nanocomposite catalyst and Silver nanomaterials for the enhanced the production of biodiesel from *Ulva lactuca* seaweed and potential antimicrobial properties against the microbial pathogens. Journal of Photochemistry and Photobiology B: Biology. Apr; 193:118-130. doi: 10.1016/j.jphotobiol.2019.02.011. Epub 2019 Feb 27. (**IF 4.067**), ISSN: 1011-1344.
4. Rathinam Raja<sup>\*</sup> , Ana Coelho<sup>\*</sup> , Shanmugam Hemaiswarya<sup>\*</sup> , <sup>\*</sup> Parkavi Kumar<sup>\*</sup> , Isabel S Carvalho<sup>\*</sup> , **Arun Alagarsamy<sup>\*</sup>** . 2018. Applications of microalgal paste and powder as food and feed: An update using text mining tool. Beni-Suef University Journal of Basic and Applied Sciences. <https://doi.org/10.1016/j.bjbas.2018.10.004>. Elsevier publication.
5. Boobalan Thulasinathan, Mohan Rasu Kulanthaisamy, Arumugam Nagarajan, Saravanan Soorangkattan, Jothi Basu Muthuramalingam, Jeyakanthan Jeyaraman,

- Alagarsamy Arun.** 2018. Studies on the diversity of macrofungus in Kodaikanal region of Western Ghats, Tamil Nadu, India. *Biodiversitas*. 19 (6): 2283-2293.
6. M. Sudhakar, S. Ozgur, T. Boobalan and **A. Arun.** 2018. Biopolymer Synthesis and Biodegradation. In Book: Sustainable Biotechnology- Enzymatic Resources of Renewable Energy. Om V. Singh • Anuj K. Chandel (Edt). Springer International Publishing AG, Cham, Switzerland. ISBN 978-3-319-95479-0. Page 399-421.
  7. V.Ananthi, G.Siva Prakasha, K.Mohan Rasu, K.Gangadevi, T.Boobalan, Rathinam Raja, K.Anand, M.Sudhakar, Anil Chuturgoon, **A.Arun.** Comparison of integrated sustainable biodiesel and antibacterial nano silver production by microalgal and yeast isolates. *Journal of Photochemistry and Photobiology B: Biology*. (September 2018), 186:232-242 (**IF 4.067**), ISSN: 1011-1344.
  8. K.Mohanrasu, N.Premnath, G.Siva Prakash, Muniyasamy Sudhakar, T. Boobalan and **A. Arun.** Exploring multi potential uses of marine bacteria; an integrated approach for PHB production, PAHs and polyethylene biodegradation. *Journal of Photochemistry and Photobiology B: Biology*, Vol.185, (August 2018), Pages 55-65 (**IF 4.067**), ISSN: 1011-1344.
  9. AlYahya, Sami, Rani, B. Jansi, Ravi, G., Yuvakkumar, R., **Arun, A.**, Ameen, Fuad, AlNadhary, S.2018. Size dependent magnetic and antibacterial properties of solvothermally synthesized cuprous oxide (Cu<sub>2</sub>O) nanocubes. *Journal of Materials Science: Materials in Electronics*, Springer Publication. DOI: 10.1007/s10854-018-9865-7. (**IF 2.195**). ISSN: 0957-4522 (Print) 1573-482X (Online).
  10. Dinesh, G. H., Murugan, R. S., Mohanrasu, Arumugam, N., Basu, M.J., **Arun, A.** 2019. Anaerobic Process for Biohydrogen Production using Keratin Degraded Effluent. *Journal of Pure and Applied Microbiology*, 13(2), 1135-1143. <https://dx.doi.org/10.22207/JPAM.13.2.52>
  11. Dinesh, G. H., Sundaram, K., Mohanrasu, K., Murugan, R. S., Moorthi, P. V., Swetha, T. R. A., **Arun, A.** 2018. Optimization (Substrate and pH) and Anaerobic Fermentative Hydrogen Production by Various Industrial Wastes Isolates Utilizing Biscuit Industry Waste as Substrate. *Journal of Pure and Applied Microbiology*, 12(3), 1587-1596.

12. Ramu Satheesh Murugan, Gujuluva Hari Dinesh, Tondi Rajan Angelin Swetha, Thulasinathan Boobalan, Muthuramalingam Jothibas, Panneer Selvam Manimaran, Gopal Selvakumar, Alagarsamy Arun, *Acinetobacter junii* AH4-A Potential Strain for Bio-hydrogen Production from Dairy Industry Anaerobic Sludge, *J Pure Appl Microbiol.*, 2018; Vol. 12(4), 1761-1769. doi: 10.22207/JPAM.12.4.09.
13. K. Mohan Rasu, T. Boobalan, **A. Arun**, M. Sudhakar (2018), *Biodegradable and Biobased Polymers for Ecological Applications: A Move Towards to Manufacturing Sustainable Biodegradable Plastic Products*. John Wiley-Scrivener USA. (Accepted).
14. K. Mohanrasu, Rathinam Raja and **A. Arun** / Ed: Se-Kwon Kin - *Marine Microbes: Potential Candidates in Bioremediation Process*. Book Title: *Encyclopaedia of Marine Biotechnology*. Willey – Blackwell, 2017. ISBN: 978-1-119-14377-2. (Accepted).
15. Arumugam N, Saravanan S, Kavitha T, Boobalan T, Jothi Basu M, **Arun A.** (2017) Campus wide Floristic Diversity Of Medicinal Plants In Indian Institute Technology- Madras (IIT-M), Chennai. *American Journal of Plant Sciences (AJPS)*, 8 (12): 2995-3012.
16. **A. Arun**, and T. Kavitha, 2019, 3<sup>rd</sup> International Conference on Recent Trends in Microbiology, Shanlax Publications, ISBN: 978-93-88398-26-8.
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