

**Name** : Dr. S. Aravindh  
**Staff Id** : RCAS02356  
**Designation** : Assistant Professor  
**Department** : Biotechnology  
**Experience** : 5 Years And 9 Months  
**Qualification** : M.Sc. Ph.D.  
**Specialization** : Biotechnology  
**Mail ID** : [aravindh.bio@rathinam.in](mailto:aravindh.bio@rathinam.in)



## ACADEMICS

Degree	Branch	Institution / University	Year of Completion
BSc	Biotechnology	Bharathiar University	2014
MSc	Biotechnology	Bharathiar University	2016
PhD	Biotechnology	Bharathiar University	2021

Diploma / Certification	Specialization	Institution / University / Agency Name	Year of Completion
Certification	Algal Biotechnology	UC San Diego – Corsera	2025
Certification	Refresher Course on Life Science	UGC- MALAVIYA MISSION TEACHING TRAINING CENTRE	2025
Certification	Universal Human Values Phase I and II	AICTE	2024
Certification	Outcome Based Education: Paradigm Shift In Higher Education	Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education	2023
Certification	Wild Life Ecology	IIT-Kanpur (Swayam-Nptel)	2024
Certification	Innovation by Design	IIT-Bombay (Swayam-Nptel)	2024
Certification	Nanotechnology In Agriculture	IIT-Kanpur (Swayam-Nptel)	2023
Certification	Introduction to Professional Scientific Communication	IIT-Kanpur (Swayam-Nptel)	2020
Certification	Introduction to Algae	University of California San Diego – Coursera	2021

Certification	Antimicrobial resistance - theory and methods	Technical University of Denmark (DTU) (Coursera)	2021
Certification	Bioinformatics Methods I	University of Toronto (Coursera)	2022

## RESEARCH AND PUBLICATIONS

### GRANTS

Title	Agency	Amount	Year	Status
AICTE VAANI Scheme for Organizing International Conference on Emerging Trends in Smart Urban Development and Intelligent Mobility	AICTE	2 lakhs	2025	Completed

### SEED MONEY

Title	Institution	Amount	Year	Status
Development of Wastewater based Microalgae for biodiesel production	Rathinam College of Arts and Science	0.97 lakhs	2022	Completed

### Journal Publications

Dhanush, C., Aravindh, S., Jesreena, J. S., Nagadharshini, R., Jano, N., Almeer, R., & Velu, S. K. P. (2025). Biomimetic synthesis of carbon dots from *Mimosa pudica* leaves for enhanced bioimaging. *Waste and Biomass Valorization*, 16(2), 713–721.

Aravindh, S., Kanagaraj, C., & Suresh, S. N. (2025). Phytochemical screening, antifungal and antioxidant activities of ethanolic leaf and stem extracts of *Eichhornia crassipes* from Ukkadam lake, Coimbatore, Tamil Nadu, India. *Journal of Scientific Research*, 17(1), 341–354.

Kanagaraj, C., Mohanapriya, B., Aravindh, S., Sathyapriya, A., & Suresh, S. N. (2023). *In vitro* cytotoxic effect of methanolic extract from *Eclipta prostrata* L. against human colorectal adenocarcinoma cell line. *Medical Research Archives*, 11(2), 456632.

Aravindh, S., Ruban, P., Sujeeth, N. K., & Gnanadesigan, M. (2023). Exploring the biodiesel production potential of marine microalgae *Nodosilinea nodulosa* SNMVBTAR001 from Kerala coastal region, India. *Biocatalysis and Agricultural Biotechnology*, 53, 102882.

Aravindh, S., Kanagaraj, C., Mohanapriya, B., & Sathyapriya, A. (2023). Isolation, characterization, metabolites profiling of freshwater microalgae from waterfalls of Thirumoorthy Hills, Tamil Nadu, India. *European Chemical Bulletin*, 12(5), 381–386.

Sathyapriya, A., Mohanapriya, B., Kanagaraj, C., & Aravindh, S. (2022). Green synthesis of silver nanoparticles using medicinal fern *Blenchnum orientale* leaves and its application as an antimicrobial agent against food borne pathogens. *International Journal of Health Sciences*, 6(5).

Karthikeyan, S., Aravindh, S., & Ruban, P. (2021). Prediction of heart disease using Naïve Bayes algorithm. *Wesleyan Journal of Research*, 16, 166–170.

Bershiyal, S., Kanagaraj, C., Aravindh, S., & Mohanapriya, B. (2021). [Article title not provided]. *International Journal of Current Research in Chemistry and Pharmaceutical Sciences*.

Aravindh, S., Ruban, P., & Vivetha. (2020). A novel drug from endophytic microbes from Indian medicinal plants. *International Journal for Modern Trends in Science and Technology*, 3(6), 42.

Aravindh, S., & Ruban, P. (2019). Bioprospecting for high lipid producing microalgae for biodiesel production. *International Journal of Trend in Scientific Research and Development*, 3(5), 1001–1007.

Aravindh, S., & Ruban, P. (2019). Seasonal variation of microalgae in relation to physicochemical parameters of coastline of Kerala, India. *International Journal of Pharmaceutical and Biological Sciences*, 10, 347–572.

Aravindh, S., & Ruban, P. (2019). Treatment of primary and secondary domestic wastewater effluents by using microalga *Oscillatoria* sp. *International Journal of Research*, 11, 234–245.

Aravindh, S., & Ruban, P. (2018). Phylogenetic analysis of marine microbes with antimicrobial activities associated with marine sponges from Tuticorin, south-east coast of India. *Wide Spectrum Research Journal*, 4, 5790.

Karunanithi, S., Aravindh, S., Dhailappan, A. K., & Ruban, P. (2017). Biodegradation of hydrocarbon pollutant soil by indigenous microbes. *Biodegradation*, 4(3), 1038–1047.

Aravindh, S., Ruban, P., & Prasad, S. (2016). Molecular characterization of pigment producing microbes associated with marine sponges and their microbial assay. *International Journal of Bioresource Science*, 3(2), 41–47.

### **Book Chapters**

Aravindh, S., Kanagaraj, C., & Saravanakumar, A. (2025). Multi-cultural language education for promoting environmental sustainability. In *Interdisciplinary education for sustainable development* (pp. 123–146). Rathinam College of Arts and Science.

Aravindh, S., Dhanush, C., & Kanagaraj, C. (2024). Advances in UV-Visible spectroscopy: Unraveling the spectrum of science. In *Essential techniques unveiled: A novice researcher's guide to fundamental characterization* (pp. 26–36). Rathinam College of Arts and Science.

Aravindh, S., & Kanagaraj, C. (2023). Genome editing and CRISPR technology. In *Recent developments in basic and applied sciences* (pp. 35–56). Rathinam College of Arts and Science.

## Books

**Next-Gen Biotechnology: Tools, Techniques, and Trends**  
ISBN: 978-93-341-8862-2 Publisher: New Book Publisher Year: 2025

**AI and Machine Learning in Biology: Advancements, Applications, and Challenges**  
ISBN: 978-93-5917-480-8 Publisher: Laser Publication Year: 2024

**Microbial Innovations for Indian Agriculture and Healthcare**  
ISBN: 978-93-342-7278-9 Publisher: New Book Publishing House Year: 2025

## Proceedings

Aravindh, S., Kanagaraj, C., Karthikeyan, S., & Suresh, S. N. (2025). Microalgae-based bioelectrochemical systems for enhanced electron production and sustainable feed supplementation. *Proceedings of the International Conference on AI in Science, Technology, Commerce, Management and Health Science*, Rathinam College of Arts and Science in collaboration with Lincoln University College, Malaysia.

Aravindh, S. (2023, October 11–12). Microalgal innovations for sustainable biotechnology applications. *Proceedings of the International Conference on Current Trends in Basic and Applied Science (ICCTBAS-2023)*.

Aravindh, S. (2020). National biotechnological approach to the society. *Proceedings of Symbios 2020 – 13th National Conference on Biotechnology*.

Aravindh, S. (2023, January 24–25). Computing and intelligent system for plant protection machinery. *Proceedings of the 2nd International Conference on Computing and Intelligent System (ICCIS'23)*, Rathinam College of Arts and Science, Coimbatore.

Sivaganesh, A., & Chinnnasamy, K. (2024). Use of Indian traditional knowledge systems for optimal use of medicinal plants. *Proceedings of the International Conference on Recent Trends in Life Sciences and Biotechnology: Bridging Ancient to Recent – Uniting Animal, Plant and Microbial Diversity with Indigenous Knowledge for Developed India*.

## PRESENTATIONS

	State Level	National	International
Conference	12	8	3
Seminar	10	10	4

## **PARTICIPATION**

	<b>State Level</b>	<b>National</b>	<b>International</b>
<b>Conference</b>	<b>12</b>	<b>13</b>	<b>6</b>
<b>Seminar</b>	<b>10</b>	<b>10</b>	<b>8</b>
<b>Workshop</b>	<b>6</b>	<b>8</b>	<b>2</b>
<b>Orientation</b>	<b>16</b>	<b>17</b>	<b>8</b>
<b>FDP/PDP</b>	<b>6</b>	<b>10</b>	<b>10</b>

### **Events Organized**

AICTE VAANI Scheme sponsored International Conference on Emerging Trends in Smart Urban Development and Intelligent Mobility, 6<sup>th</sup> and 7<sup>th</sup> August 2025

National Seminar on “Exploration of Principle Behind the Phytochemicals, Characterization, Cultivation & Commercialisation of Medicinal Plants” 27 September 2024

International Conference on Research and Innovation in Biological Science. 27 February 2022

### **Invited Speaker / Session Chair- Conference / Seminar / Workshop**

Resource Person in Orientation session on Institution Innovation Council held on 06.05.2025 at M.O.S.C College of Nursing, Kolenchery

Resource Person in Orientation session on Institution Innovation Council held on 12.07.2024 at St. Paul’s College, Kalamasserry.

Resource Person in webinar on Intellectual Property Rights specially on Copyrights and Patent held on 08.02.2024 at St.Joseph’s College of Arts and Science for Women Hosur.

Resource person in the Seminar organised by Science Club, E. S. Arts and Science College (Co-Ed), Villupuram on 08th September 2023 in the Topic: Phytoremediation Innovations: Future Direction and Challenges"

Jury member for HINSPECTRA 2k23 at Hindustan Polytechnic college on 09.03.2023

### **Members in BoS/ Editorials/ Professional Bodies**

Membership in Indian Academicians and Researchers Association from 2024.

Reviewer for the Elsevier Journal “Measurement: Sensors”

## AWARDS, HONORS AND RECOGNITION

Awards / Honors /Recognition	Agency / Institution	Year of Award
Faculty Academic Excellence Award 2025	International Academics and Research Foundation	2025
Golden Guru Award	GRD Gold Jewelers	2025
Professor Arumugam Award – Excellence in Teaching	Rathinam Star Awards 2024	2024
Excellent Contribution in External Activities	Rotary Club, Coimbatore	2023
Reviewer Recognition Award	Elsevier	2023