

Name : Dr C KANAGARAJ
Staff ID : RCAS01738
Designation : ASSISTANT PROFESSOR & HEAD
Department : BIOTECHNOLOGY
Experience : 14 years and 5 months
Qualification : MSc., MBA., Ph.D.
Specialization : Molecular Biology
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ACADEMICS

Degree	Branch	Institution / University	Year of Completion
BSc	Microbiology	Bharathiar University	2003
MSc	Biotechnology	Periyar University	2005
MBA	Biotechnology	Anna University	2009
PhD	Animal Science	Bharathidasan University	2011

RESEARCH AND PUBLICATIONS

GRANTS

Title	Agency	Amount	Year	Status
Preparation of Microbial consortium for Hydroponic Plantation	TNSCST – SPS	7500/-	2024	Completed

SEED MONEY

Title	Institution	Amount	Year	Status
Enhanced volatile compound activity of synthesized silver nanoparticles derived from plant extract: Application of Therapeutic Population	Rathinam College of Arts and Science	1.725 lakhs	2019	Completed
Study on the Impact of Herbal Product in treating menstrual Issues	Rathinam College of Arts and Science	1.58 lakhs	2021	Completed
Dynamics on River Basin Diversity of Tinospora Cordifolia (wild) Miers	Rathinam College of Arts and Science	0.75 lakhs	2024	Completed

GUIDANCE

Program	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	3

Journal Publications

1. 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.
2. Selvam, S., & Kanagaraj, C. (2024). Immortal plant having miracle power to cure multiple diseases: *Tinospora cordifolia* – A review. *STARD Research*, 11(2), 280–285.
3. Aravindh, S., & Kanagaraj, C. (2024). Exploring phytochemicals in *Aloe barbadensis* Miller root extract. *Aegaeum Journal*, 12(5), 58–79.
4. Mohanapriya, B., Suresh, S. N., Sathyapriya, A., Kanagaraj, C., & Mythily, N. (2023). Evaluation of anti-dandruff activity of polyherbal serum against *Malassezia* fungus from human scalp. *Journal of Coastal Life Medicine*, 11(2), 1443–1447.
5. Kanagaraj, C., Mohanapriya, B., et al. (2023). *In vitro* cytotoxic effect of methanolic extract from *Eclipta prostrata* L. against human colorectal adenocarcinoma cell line. *Medical Research Archives*, 11(2).
6. 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.
7. 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 foodborne pathogens. *International Journal of Health Sciences*, 6(3).
8. Aravindh, S., Kanagaraj, C., Mohanapriya, B., & Sathyapriya, A. (2022). Molecular characterization of freshwater microalgae and metabolites analysis. *Anvesak*, 52(2), 1.
9. Kavitha, A., Shanmugam, S., Chinaza, G., Kanagaraj, C., & Subramanian, R. (2021). Synthesis and enhanced antibacterial activity using plant extracts with silver nanoparticles: Therapeutic application. *Inorganic Chemistry Communications*, 134, 109045.
10. Bershiyal, S., Kanagaraj, C., Aravindh, S., & Mohanapriya, B. (2021). GC-MS analysis of methanolic extract of residential plant *Eclipta prostrata* (L.). *International Journal of Current Research in Chemistry and Pharmaceutical Sciences*, 8(6).
11. Mohanapriya, B., Kanagaraj, C., & Aravindh, S. (2021). Antibacterial studies of *Azadirachta indica* bark resin and gelatin in MDR organisms. *A Journal of the History of Ideas and Culture*, 38(6), 158–160.
12. Aravindh, S., Kanagaraj, C., & Mohanapriya, B. (2021). Nanoparticles from medicinal plants and their anti-biofilm activity. *A Journal of the History of Ideas and Culture*, 38(6), 153–157.
13. Mohan Raj, L., Kalaigandhi, V., & Kanagaraj, C. (2015). The occurrence of MDR/MDS *Pseudomonas aeruginosa* among nosocomial and community-acquired infections in and

- around Coimbatore, India. *International Journal of Current Microbiology and Applied Sciences*, 4(11), 753–761.
14. Mohan Raj, L., Kalaigandhi, V., & Kanagaraj, C. (2015). Study on MDR *Pseudomonas aeruginosa* from diabetic and non-diabetic clinical samples. *International Journal of Informative & Futuristic Research*, 3(2), 345–349.
 15. Kanagaraj, C., Muthuvel, P., & Ayyappadas, M. P. (2015). Screening of bacteriocin production and associated enzyme activity from *Lactobacillus acidophilus*. *International Journal of Biotechnology and Bioengineering Research*, 6(1), 13–18.
 16. Ayyappadas, M. P., Renugadevi, R., Kanagaraj, C., & Vivekanandhan, K. (2014). Study on drug susceptibility and bovine Hb using ELISA on bovine mastitis pathogens. *International Refereed Journal of Engineering and Science*, 3(5), 01–04.
 17. Kanagaraj, C., & Emmanuvel Rajan, K. (2011). Genetic diversity and population structure of leaf-nosed bat *Hipposideros speoris* (Chiroptera: Hipposideridae) in the Indian subcontinent. *African Journal of Biotechnology*, 10(8), 1320–1328.
 18. Kanagaraj, C., Marimuthu, G., & Emmanuvel Rajan, K. (2010). Genetic analysis on three South Indian sympatric hipposiderid bats (Chiroptera, Hipposideridae). *Animal Biodiversity and Conservation*, 33(2), 187–194.
 19. Kanagaraj, C., & Emmanuvel Rajan, K. (2007). Expression of red/green color sensitive opsin in Chiroptera: A prime report. In *Proceedings of the 31st Annual Conference of Ethological Society of India, Recent Trends in Animal Behavior* (pp. xx–xx).
 20. Chinnasamy, K., Thiruchenthil Nathan, P., Raghuram, H., & Emmanuvel Rajan, K. (2007). Evolutionary dynamics of hipposiderid bats in the Indian sub-continent. *Bat Research News*, 48(3), 128.

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.
- Chapter 4. Changes in silk Gland Neutral Lipids during the Last instar and Spinning Stages of the Silkworm. Book entitle: *A Closer Look at Silkworms* – nova science Publishers – 2023.
- Dr. S. Aravindh and **Dr. C. Kanagaraj** : Recent Developments in Basic and Applied Sciences Genome Editing and CRISPR Technology – Book entitle: *Recent Development in Basic and Applied Science* – CIIT Publisher -2023.
- **Dr. C. Kanagaraj**, Dr. S. Aravindh : Principles and Practices of Bioethics - Book entitle: *Recent Development in Basic and Applied Science* – CIIT Publisher -2023.
- S Aravindh, **C Kanagaraj**: Advances in UV Visible Spectroscopy: Unravelling the Spectrum of Science. Book entitle: *Essential Techniques Unveiled: A Novice Researcher's Guide to Fundamental Characterization* - CIIT Publisher – 2024.

- **C Kanagaraj**, S Suthira, Application of Flow cytometry in Biological and Medical Research. Book entitle: Essential Techniques Unveiled: A Novice Researcher's Guide to Fundamental Characterization - CIIT Publisher – 2024.
- Dr S Aravindh, **Dr C Kanagaraj**, Dr T Pratheep; Next Gen Biotechnology: Tools, Techniques and Trends. New Century Publishing House – 2024.

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.
- Paper entitled “ ***Appraisal of Heavy Metal Toxicity from Small Reservoirs around Coimbatore District***” Presented in International Conference in Recent Advances in Synthetic Biology, Department of Biotechnology and Bioinformatics of Bishop Heber College, Tiruchirappalli – 9th January 2015.
- Paper entitled “***Evolutionary Dynamics of Hipposiderid Bats in the Indian Sub-continent***” Presented in, The First International South-East Asian Bat Conference, 7-10 May 2007 Thailand.
- Paper entitled “**Expression of Red/Green Color Sensitive Opsin in Chiroptera: A Prime Report**” presented in National Symposium on Women in Agriculture and XXXI Annual Conference of the Ethological Society of India, University of Agricultural Sciences, Bangalore – 560 065, held on April 10-12, 2007.
- Paper entitled “**Bioethanol production from molasses using immobilized *Sacchromyces cerivisiae* and *Zymomonus mobilis***” presented in National Conference on Microbes for Mankind, Department of Microbiology, Karpagam University, Coimbatore-21, India, held on January 9-10, 2004.

PRESENTATIONS

	State Level	National	International
Conference	05	15	8
Seminar	07	12	5

PARTICIPATION

	State Level	National	International
Conference	10	15	8
Seminar	10	15	5
Workshop	5	10	1
Orientation	2	5	0
FDP/PDP	5	15	2

Events Organized (Seminar/Conference/Workshop)

AICTE VAANI Scheme sponsored International Conference on Emerging Trends in Smart Urban Development and Intelligent Mobility, 6th and 7th 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

Served as Resource person of orientation program on “**Design Thinking & Innovation**” organized by Arjun College of Technology on 17th November, 2022.

Served as Resource person of Training program on “**PCR Techniques**” organized by Sri Ramakrishna College of Arts and Science on 9th August, 2023.

Served as Resource person of Hands-on Training program on “**PCR & Fermentor: Innovations and Insights**” organized by Kongu Arts and Science Colleg on 20th to 21st September, 2024.

Served as Resource person of National Level Techno-Management Fest Workshop on “**Cutting Edge Techniques in Molecular Biology - Biogenesis**” organized by SASTRA Deemed to be University on 25th February, 2025.

Recourse person and chaired a session on “**Motivational Session by Successful Innovators**” one day state level seminar organized by Marudhar Kesari Jain College for Women, Vaniyambadi on 25/11/2021.

Served as Resource person of orientation program on “**Entrepreneurship, Innovation and Incubation**” organized by Karim City College, Jamshedpur on 25th to 28th June, 2021.

Members in BoS/ Editorials/ Professional Bodies

Life time member of South East Asian Bat Conservation Research Unit (SEABCRU), Texas Tech University, USA.

Life Member of Society for Biotechnologists (India) – LM1140, Cochin University of Science & Technology, Kochi 682 022, Kerala, India.

Life Member of Society for Alternatives to Animal Experiments – India (SAAE-I), C/o National Centre for Alternative to Animal Experiments (NCAAE) Bharathidasan University, Tiruchirappalli-024.
Subject Expert member of Board of Studies – Department of Biotechnology, Kongu College of Arts and Science, Erode.

AWARDS, HONORS AND RECOGNITION

Awards / Honors /Recognition	Agency / Institution	Year of Award
Excellence in Leadership award for the outstanding contribution and achievement in academic discipline	SNS group of Institutions – Coimbatore-21	2025
Best Mentor Award	YUVA Incubated & KITES Education	2021
Meritorial student fellowship award	UGC – SAP Bharathidasan University	2008
SEABCRU Fellowship	Texas Tech University, Texas, USA	2008
Exemplary student award	SNMV CAS	2003