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Dr A.S.RUBY CELSIA

[Linkedin](#) | [Googlescholar](#) | [Scopus](#) | [Web of Science](#) | drrubycelesia@gmail.com | +91 7708603793 |

Address : Melnallathur, Tiruvallur, Tamilnadu, 602002, India

A dedicated Academician and Researcher focused on Food Microbiology. I hold key leadership roles as Program Coordinator of the Department, NBA Criterion 5 Coordinator and IQAC Coordinator. I am also an AICTE UHV Certified Faculty, AU Recognized Supervisor and Certified Entrepreneurship Educator.

1. ADMINISTRATIVE POSITION HELD

1. Department IQAC
2. Department Project Coordinator
3. Research and Development Coordinator
4. Programme Coordinator

2. TECHNICAL CORE SKILLS

Animal Model Research, Biofilm, Nanomaterial synthesis and characterizations, Food Product development

3. WORK EXPERIENCE

Associate Professor

Oct 2025 - Present

Prathyusha Engineering College | India

A dynamic academic professional excelling in teaching, curriculum development, and student mentorship. I hold key leadership roles like IQAC incharge, NBA, NAAC, AQAR Coordinator, showcasing my commitment to Department and institutional advancement.

Assistant Professor

Feb 2022 – Sep 2025

K.S.Rangasamy College of Technology | India

As an Assistant Professor, my core responsibilities include: delivering engaging lectures and developing curriculum; mentoring students and providing academic support; contributing to departmental administration; and conducting research to publish in academic journals and advance professionally.

Junior Research Fellow

Jun 2016 - Jun 2019

Mepco Schlenk Engineering College | India

A dedicated researcher have worked with a Rs. 22 Lakh grant from DST Nanomission mentored by Dr R Mala. My expertise spans nanobiomaterials, medical implants, in vivo models, and training students in research and financial reporting.

Teaching Assistant

Jun 2015 - May 2016

Mepco Schlenk Engineering College | India

Assisting faculty with classroom instruction, records, and assignments

4. EDUCATION

Mepco Schlenk Engineering College <i>Ph.D Biotechnology</i>	Jan 2017 - Aug 2022
Mepco Schlenk Engineering College <i>M.Tech Biotechnology</i>	Jul 2014 - Jun 2016
Mepco Schlenk Engineering College <i>B.Tech Biotechnology</i>	Aug 2010 - Apr 2014

5. RECENT CERTIFICATION

AI Samarth (English) — AI Literacy CENTRA (Centre for Teacher Accreditation)	Dec 2025
Research Readiness: Ranking & Accreditation Edhitch	Dec 2025
Certified Entrepreneurship Educator Wadhvani Foundation	Aug 2025
Universal Human Values Educator All India Council For Technical Education	Jul 2022

6. PUBLICATION

S. No.	JOURNALS			BOOKS AND BOOK CHAPTER	PATENTS	
	SCI	WoS	Scopus		Filed	Granted
Counts						

6.1 Journals

Published:

1. K. Arunprasath, Y. Carlin Calaph, A. M. Shanawaz, P. S. Sankarganesh, **Ruby Celsia AS**, and S. Vignesh. Sustainable Utilization of Waste PET: Current Trends and Future Prospects in Recycling. Techniques - Sciences - Methodes, 10(1), 118-140. 2026. Assoc. Generale des Hygienistes et Techniciens Municipaux. (Scopus Indexed)

2. K. Arunprasath, P. SenthamaraiKannan, Indran Suyambulingam, T.G. Yahas Gowda , Siva Avudaiappan, **Ruby Celsia AS**, (2025). A comprehensive review on hydrophobicity in cellulosic natural fibers: Trends, techniques, and future directions. *International Journal of Biological Macromolecules*,149642.
3. Prasath, K. A., Shanawaz, A. M., Calaph, Y. C., Pradeesh, T. R., & **Ruby Celsia AS**, (2025). Upcycled nanomaterials from wastewater treatment for active and smart packaging: A review. *Journal of Composites Engineering and Sustainability*, 1(1), 3–14.
4. Muthukumarasamy, K., Kanagarajan, B., Jayachandrabal, B.M., **Ruby Celsia AS** et al. (2025). Development of packaging films from banana pseudostem sap and PVDF: mechanical and thermal properties. *Biomass Conversion and Biorefinery*, <https://doi.org/10.1007/s13399-025-06851-8>
5. **Ruby Celsia AS**, Kanagaraj A, Karuppiyah P, et al. Leveraging citrus extract to enhance antioxidant properties of mung bean (*Vigna radiata*) protein edible films. *Biomass Conversion and Biorefinery*. 2025. doi:10.1007/s13399-025-06778-0.
6. Kanagaraj A, SenthamaraiKannan P, **Ruby Celsia AS**, Karthic S, Divakaran D, Suyambulingam I, et al. Physiochemical profiling of bioplasticizer derived from *Ficus benghalensis* leaves for eco-friendly applications. *Ind Crops Prod*. 2024;222:119535.
7. Aarthi E, Kiruthika Devi V, **Ruby Celsia AS**. Enhancing Nutritional Profile of Chocolate Spread with Millet: A Study on Development of Millet-Based Foods. *Int J Emerg Technol Innov Res*. 2024;11(1):c125-c130.
8. Deepan B, Gunasekaran P, **Ruby Celsia AS**. Formulation Of Nutritional Enriched Instant Noodles As A Functional Food. *IJRAR*. 2024;11(1):86-91.
9. Harini Priya M, Manju Abinaya K, **Ruby Celsia AS**. Enrichment Of Folic Acid In Herbal Candy. *IJRAR*. 2024;11(1):459-70.
10. Dhanapal NS, Ramakrishnan S, **Ruby Celsia AS**. A Sensor Detection Of Melamine And Its Constituents In Milk - A Survey. *IJRAR*. 2024;11(1):722-33.
11. Rajapriya M, Abinaya S, **Ruby Celsia AS**. Formulation Of Plant Based Meat Analogue And Its Application Towards Nugget. *IJRAR*. 2024;11(1):17-24.
12. Sengottuvel S, Ganesan N, **Ruby Celsia AS**. Formulation And Evaluation Of Wheat Baked Chips With Using *Borassus Filabellifer*. *IJRAR*. 2024;11(1):857-64.
13. Sharthika S, Suresh M, **Ruby Celsia AS**. Development And Evaluation Of Edible Cutlery From Fortified Millet Mix. *IJRAR*. 2023;10(4):637-46.
14. Nithya Shree D, Sangeeth R, **Ruby Celsia AS**. Paper-Based Sensor For Melamine Detection. *IJRAR*. 2023;10(3):603-12.
15. Sarankumar K, Subhash P, **Ruby Celsia AS**. Enzymatic Hydrolysis Of Lactose In Functional Probiotic Capsules. *IJRAR*. 2023;10(3):139-53.
16. Kuppan NK, Palanisamy A, **Ruby Celsia AS**. Enrichment Of High Antioxidant In Meat Analogue Produced With *Arthrospira platensis* & *Annona muricata*. *IJRAR*. 2023;10(3):121-6.

17. Sankari R, Prabha H, **Ruby Celsia AS**. Exploring the Hazards of Microplastics in Shrimp: a Comprehensive investigation of Identification and Characterization Strategies. *The Indian Journal of Technical Education*. 2023;pp 160-8.
18. Mala R, Gazana I, Ghayathri BL, Preetha M, Keerthana RC, Prasath NH, **Ruby Celsia AS** et al. Antibiotic loaded nano rod bone cement for the treatment of osteomyelitis. *Recent Pat Nanotechnol*. 2021;15(1):70-89. doi:10.2174/1872210514666200811103724.
19. Rajendran M, **Ruby Celsia AS**, Ramesh K, Chandran KR. Chemical composition, Antioxidant and Anti-Inflammatory activity of ficus racemose fruit. *Int J Pharm Res*. 2020;12(01). doi:10.31838/ijpr/2020.12.01.242.
20. Mala R, Roy S, Ravichandran K, Mishra B, Gupta DK, Nagarajan S, **Ruby Celsia AS** et al. In silico screening and molecular dynamics of phytochemicals from Indian cuisine against SARS-CoV-2 MPro. *J Biomol Struct Dyn*. 2020;40(7):3155-69. doi:10.1080/07391102.2020.1845980.
21. Rajendran M, **Ruby Celsia AS**, Prasath NH, Chandran K, Raman G. Susceptibility of biofilm forming *Pseudomonas aeruginosa* and *Staphylococcus aureus* to antibiotic-adjuvants. *Malays J Microbiol*. 2020. doi:10.21161/mjm.190649.
22. Rani DJ, Mala R, Mohan P, Keerthana R, Prasath NH, **Ruby Celsia AS**. Chitosan nanoparticle- mediated delivery of curcumin and phycocyanin for photodynamic therapy against biofilm forming bacteria. *Mater Express*. 2020;10(11):1854-70. doi:10.1166/mex.2020.1861.
23. **Ruby Celsia AS**, Mala R, Prasath NH. Re-Potentialization of β -Lactam Antibiotic by Synergistic Combination with Biogenic Copper Oxide Nanocubes against Biofilm Forming Multidrug-Resistant Bacteria. *Molecules*. 2019;24(17):3055. doi:10.3390/molecules24173055.
24. Mala R, Prasath NH, **Ruby Celsia AS**. Bactericidal activity of zinc oxide nanoparticles. *IOP Conf Ser Mater Sci Eng*. 2019;561(1):012065. doi:10.1088/1757-899x/561/1/012065.
25. Mala R, Rani M, Prasath NH, **Ruby Celsia AS**. A review on nano material based drug delivery for burn injury. *AIP Conf Proc*. 2019. doi:10.1063/1.5100697.
26. Mala R, Rani M, Prasath NH, **Ruby Celsia AS**. Nano composite material of chitosan for wound healing: A review. *AIP Conf Proc*. 2019. doi:10.1063/1.5100698.
27. Mala R, **Ruby Celsia AS**. Isolation and identification of burn wound superbugs by molecular technique and their susceptibility to silver nanoparticles. *IOP Conf Ser Mater Sci Eng*. 2018;310:012146. doi:10.1088/1757-899x/310/1/012146.
28. Mala R, **Ruby Celsia AS**, Sundaram VB, Rajan R, Gurusamy UM. Evaluation of Nano Structured Slow Release Fertilizer on the Soil Fertility, Yield and Nutritional Profile of *Vigna radiata*. *Recent Pat Nanotechnol*. 2017;11(1):50-62. doi:10.2174/1872210510666160727093554.

29. Mala R, **Ruby Celsia AS**, Devi SM, Geerthika S. Comparison on bactericidal and cytotoxic effect of silver nanoparticles synthesized by different methods. IOP Conf Ser. 2017. doi:10.1088/1757-899x/225/1/012155.
30. Mala R, **Ruby Celsia AS**, Mahalakshmi R, Rajeswari S. Agronomic Biofortification of *Amaranthus dubius* with Macro Nutrients and Vitamin A. IOP Conf Ser. 2017;225:012214. doi:10.1088/1757-899x/225/1/012214.
31. Mala R, **Ruby Celsia AS**, Geerthika S, Kiruthika N, VazagaPriya C, Kumar KS. Foley catheters functionalised with a synergistic combination of antibiotics and silver nanoparticles resist biofilm formation. IET Nanobiotechnol. 2017;11(5):612-20. doi:10.1049/iet-nbt.2016.0148.
32. Mala R, **Ruby Celsia AS**. Influence of solution and process parameters on the fabrication of E- Spun nano fiber for wound healing: a review. Recent Pat Nanomed. 2015;4(2):102-15. doi:10.2174/1877912304666141009230331.
33. **Ruby Celsia AS**, Mala R. Fabrication of Nano Structured Slow Release Fertilizer System and its Influence on Germination And Biochemical Characteristics of Vigna Radata. Int J ChemTech Res. 2014;6(10):4497-503.

6.2 Books and Book Chapter

Published :

1. Poomalaisundar, K.R., Sengottaiyan, N., Sivakumar, P., Murthi, J.S., Kesava Ramanujam, A., **Ruby Celsia AS**. (2026). Scale Up Production of Nanomaterials. In: Kulkarni, S. (eds) Next-Generation Nanomaterials for Sustainable Engineering. Lecture Notes in Nanoscale Science and Technology, vol 43. **Springer**, Cham. https://doi.org/10.1007/978-3-032-05719-8_1
2. Velayutham, V., Senthilkumar, S., Kolandaivel, P., & **Ruby Celsia AS**. (2025). Pharmacodynamic aspects of herb-drug interactions. In P. Singh (Ed.), *Herb-drug interactions: A medicinal approach*. **Bentham Publisher**.
3. **Ruby Celsia AS**, Arthy Annadurai, Sujatha Rajendran, Ari Ganesh (2026). Nanoparticles for improving egg quality in poultry. In *Nanobiomaterials in animal husbandry* (Vol. 1). **Springer** Singapore.
4. Buwa V, Khan N, **Ruby Celsia AS**, Nlebedim V. Quality control and inspection techniques with AI and ML. In: Sarkar T, Haldorai A, editors. Artificial intelligence in food science: Transforming food and bioprocess development. **Elsevier**; 2025. doi:10.1016/B978-0-443-26468-9.00029-1
5. Sarkar S, **Ruby Celsia AS**, Milwood U. Computational intelligence for plant-based alternatives. In: Sarkar T, Haldorai A, editors. Artificial intelligence in food science: Transforming food and bioprocess development. **Elsevier**; 2025. doi:10.1016/B978-0-443-26468-9.00003-5

6. **Ruby Celsia AS**, Ganesh SS, Ramasamy Y, Jayakumar V, Akinlabi ET, Oke SA. Development of Biodegradable Materials. In: *Advanced Manufacturing Technologies in Biomedical Science*. 1st ed. Boca Raton, FL: **CRC Press**; 2025. p. 20.
7. **Ruby Celsia AS**, Elumalai C, Sekar DA, Kavin S, Angamuthu M. Energy Efficiency in the Meat and Meat Processing Sector: Introduction to Energy Efficiency in the Meat Industry. In: Hamad AA, Singh P, Saxena D, Haghi AK, editors. *Energy Efficient Technologies for Food Safety, Quality, and Security*. Hershey, PA: **IGI Global**; 2025. doi:10.4018/979-8-3693-8342-1. IGI Global Publisher
8. *Futuristic Trends in Biotechnology*. Volume 3, Book 11. **IIP Publisher**; 2024. 978-93-6252-983-1.
9. Mala R, Prasath NH, **Ruby Celsia AS**. Mechanistic Insights into the Potentiation of Photodynamic Therapy by Nano Weapons. In: L K, VA, V M, editors. *Biological Synthesis of Nanoparticles and Their Applications*. 1st ed. Boca Raton, FL: 2019. Available from: <https://www.taylorfrancis.com/books/e/9780429265235>. **CRC Press**
10. Mala R, **Ruby Celsia AS**. Crystalline Biofilm Formation on Foley Catheter: A Macro Problem with Microbes and the Nano Weapons to Control Blockage. In: Sabu T, Yves G, Nandakumar K, Oluwatobi S, Praveen K, editors. *Nanotechnology-Driven Engineered Materials: New Insights*. 1st ed. Boca Raton, FL: CRC Press; 2018. **CRC Press**
11. Mala R, **Ruby Celsia AS**. Toxicity of Nanomaterials To Biomedical Applications-A Review. In: Sabu T, Yves G, Nandakumar K, Oluwatobi S, Praveen K, editors. *Nanotechnology-Driven Engineered Materials: New Insights*. 1st ed. Boca Raton, FL: CRC Press; 2018. **CRC Press**
12. Mala R, **Ruby Celsia AS**. Bioceramics in orthopaedics: A review. In: Thomas S, Balakrishnan P, Sreekala MS, editors. *Fundamental Biomaterials: Ceramics*. Woodhead Publishing; 2018. doi:10.1016/B978-0-08-102203-0.00008-1. **Woodhead Publishing (An imprint of Elsevier)**

In Review & Press :

1. Buwa V, Khan N, **Ruby Celsia AS**, Nlebedim V. Quality control and inspection techniques with AI and ML. In: Sarkar T, Haldorai A, editors. *Artificial intelligence in food science: Transforming food and bioprocess development*. Elsevier; 2025. doi:10.1016/B978-0-443-26468-9.00029-1. (**In Press, Expected Feb 2027**)
2. **Ruby Celsia AS**, Gowsika Selvaraj, and Gowtham Kottaisamy. (2026). Microbial cells or components as edible films and coatings: A revolutionary approach in food industry. In S. Rawat & T. Malik (Eds.), *Microbial-based designer foods: Designing next-generation functional foods powered by microbes*. Springer Nature. (**In Press, Expected May 2026**)
3. Nagaarjun Nagarajan, Mouriya Selvaraj, Saran Srinivasan, and **Ruby Celsia AS**. Innovations in Bioplastic Materials: Challenges and Opportunities. In: *Bioplastics Revolution Innovations, Applications, and Impacts of Eco-friendly Polymers*. 2026. **Apple Academic Press. (In Press, Expected Dec 2026)**

4. Prabha Kolandaivel, Praveen Kumar Prabhakaran, Sree Abirami Sivaguru, Manoj Kumar Muthu Samy, **Ruby Celsia AS**, Ayush Madan, and Jayprakash Yadav. Fermentation and Polymerization in Bioplastic Production. In: Bioplastics Revolution Innovations, Applications, and Impacts of Eco-friendly Polymers. 2026. *Apple Academic Press. (In Press, Expected Dec 2026)*
5. Kalairajan Poomalaisundar, Elayabharathi Sellapillai, Kavya Nagarajan, Nithish Kumar Sengottaiyan, and **Ruby Celsia AS**. Innovative Technologies for Waste Reduction and Resource Recovery. In: Advancing Municipal Waste Residues for Bioenergy Solutions. 2026; *Apple Academic Press(In Press, Expected Nov 2026)*
6. Prabha Kolandaivel, Monish Kanna Sengottuvel, Vishakh Harikumar, and **Ruby Celsia AS**. Advanced Waste Management Strategies for Reducing Emissions and Enhancing Resource Recovery. In: Advancing Municipal Waste Residues for Bioenergy Solutions. 2026; *Apple Academic Press (In Press, Expected Nov 2026)*
7. Nithishkumar Sengottaiyan, Emmanuel Simon, Faras Abdu Hadi, Kalai Rajan Poomalaisundar, and **Ruby Celsia AS** Soil Fertility and Nutrient Management. In: Improving Soil Health for Sustainable Agriculture Management, Practices, and Strategies. 2026. *Apple Academic Press. (In Press, Expected Nov 2026)*

6.3 Patents

1. Preparation Process of non dairy milk and beverage using greengram milk (Application Number: 202541008199), 2025.
2. Organic Lipstick With A Twoway Crayon, Application Number : 202341084207 (Patent Filed),2025
3. Process for preparing Nano foliar spray fertilizer with micronutrient to fortify food with iron, zinc, carotenoids and vitamin A. **Granted** , 2023
4. Cool Heal Nano Care, Application Number. **Granted**, 2023
5. A Process for the Extraction and Stabilization of Mucilage from Coccullus Hirsutus using Nanoparticle. Application Number 201841040921 (Awaiting Examination) 2018
6. Extraction of urease inhibitor from Tamarind fruit pulp and the coating of urinary catheter with the bioactive formulation to inhibit encrustation. **Granted**, 2024
7. A dressing material for wound healing, **International Patent WIPO (Published Oct 2020)**

6.3 Conference Publication

1. K. Arunprasath, Y.Carlin Calaph, A.M. Shanawaz, PSP.Sankarganesh, Ruby Celsia Arul Selvaraj, S. Vignesh, G.Velmurugan (March 26 & 27th 2026), Study Of The Mechanical Properties Of Aluminum 7075/ MICA Powder Hybrid Metal Matrix Composites (HMMCs), in the International Conference on Sustainable Innovations in Materials, Manufacturing, and Automation [ICSIMMA2026] organized by Kalasalingam University, Krishnakovil.

2. Arunprasath K, Shanawaz A.M, Carlin Calaph .Y, Kavitha S, Ruby Celsia Arul Selvaraj, Amuthakkannan P, G.Velmurugan (March 26 & 27th 2026), Mechanical And Thermal Studies of Flax And Basalt Fiber Epoxy Matrix Polymer Composite, in the International Conference on Sustainable Innovations in Materials, Manufacturing, and Automation [ICSIMMA2026] organized by Kalasalingam University, Krishnakovil.
3. Hemalatha R, Yogeshwaran S, Ruby Celsia Arul Selvaraj, Nithish Kumar S. (April 24&25, 2025). "Sensory Evaluation and Consumer Acceptance of PUFA Enriched Foods." Presented at the First International Conference on Frontier Areas of Agriculture, Biotechnology, and Food Technology for Sustainable Bio-resources and Bio-economy (ICFAABF '25), organized by the Department of Biotechnology, Agricultural Engineering, and Food Technology, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India. Dates: April 24–25, 2025.
4. Nethra Palanisikku, Abitha Balasubramanian, Akaash Babu Natarajan, Bharath Ganesan, Ruby Celsia Arul Selvaraj, K.Arunprasath (April 11 &12, 2025), Sustainable Materials: The Emerging Role of Bioplastics in Modern Industries in the International Conference On Interactive Design And Digital Manufacturing (ICIDDM 2K25) organized by SRM Institute Of Science And Technology, Tiruchirappalli
5. Bharath Ganesan, Tharani Thirugnanam, Vaishnavi Janagieraman, Ruby Celsia Arul Selvaraj (April 11 &12, 2025), Transforming Materials: Innovations of Shaping the Future of Bioplastics- A technical review for sustainable imminent in the International Conference On Interactive Design And Digital Manufacturing (ICIDDM 2K25) organized by SRM Institute Of Science And Technology, Tiruchirappalli
6. Arunesh Rajendran, Praveen Mohan, Dharunraj Murugesan, Ruby Celsia Arul Selvaraj, K.Arunprasath (April 11 &12, 2025),Exploring Nano Exopolysaccharides in Fermented Foods: Current Trends and Future Perspectives-A Review in the International Conference On Interactive Design And Digital Manufacturing (ICIDDM 2K25) organized by SRM Institute Of Science And Technology, Tiruchirappalli
7. Ruby Celsia Arul Selvaraj, A.M.Shanawaz, PSP.Shankar ganesh, S.Kavitha, K.Arunprasath (April 11 & 12, 2025), The Role of Exopolysaccharides in Fermented Foods: Functions, Applications, and Health Benefits in Nano Technology – A Technical Review, in the International Conference On Interactive Design And Digital Manufacturing (ICIDDM 2K25) organized by SRM Institute Of Science And Technology, Tiruchirappalli
8. Praveen M, Gowtham K, Ari G, Arunesh R D (27th April 2024) Formulation of Nutrient Choco-Bar in the International Conference On Adaptive Technologies For Sustainable Growth (ICATS -2024) organized by Paavai Engineering College (Autonomous), Namakkal
9. Praveen M, Gowtham K and Ruby Celsia A S - Development Of Fortified Feed From Maize Cob (April 17, 2024) National conference on “Technological Innovations In Life Sciences Towards Sustainability” (TILS-24) organized by K.S.Rangasamy College of Technology, Tiruchengode

10. Sujatha Rajendran, A.S.Ruby Celsia -Instant Idli Batter Pellet (April 17, 2024) National conference on “Technological Innovations In Life Sciences Towards Sustainability” (TILS-24) organized by K.S.Rangasamy College of Technology, Tiruchengode
11. Arunesh R D, Ari G and Ruby Celsia A S - Formulation Of Nutrient Choco Bar Using Kodo Millet (April 17, 2024) National conference on “Technological Innovations In Life Sciences Towards Sustainability” (TILS-24) organized by K.S.Rangasamy College of Technology, Tiruchengode
12. P. Sankar, A.S. Ruby Celsia - Formulation And Evaluation Of Herbal Cookies Enriched With *Centella asiatica L.* (April 17, 2024) National conference on “Technological Innovations In Life Sciences Towards Sustainability” (TILS-24) organized by K.S.Rangasamy College of Technology, Tiruchengode
13. Aravind Kumar Thirumal Marugan, Ruby Celsia Arul Selvaraj, Agilandeshwari Poopathi -Nutritional Prowess Unveiled: Essential Elements Within Indian Microgreens (April 17, 2024) National conference on “Technological Innovations In Life Sciences Towards Sustainability” (TILS-24) organized by K.S.Rangasamy College of Technology, Tiruchengode
14. Mekha Am Abraham, Nehal Jacob and Ruby Celsia A.S, (Mar 2023), Edible Cutlery: A Substitute for Single use Plastic Cutlery, presented at International Conference organized by Paavai Engineering College (Autonomous), Namakkal.
15. Nithya Sree D, Sangeeth R. and Ruby Celsia A.S, (Mar 2023), A Comprehensive Survey of sensor detection of melamine and it's constituents in milk and it's products, presented at International Conference organized by Paavai Engineering College (Autonomous) , Namakkal.
16. Saran Kumar K, Subhash P. and Ruby Celsia A.S, (Mar 2023), Characterization of Yogurt Powder: A survey of quality parameters using Various Drying techniques, presented at International Conference organized by Paavai Engineering College (Autonomous) , Namakkal.
17. Naveen Kumar G, Sakthi Murugan S. and Ruby Celsia A.S, (Mar 2023), Health, dietary preferences, protein based, consumer preferences and effect on egg batter properties in Egg replacement presented at International Conference organized by Paavai Engineering College (Autonomous), Namakkal.
18. Hariprabha D,Sankari R. and Ruby Celsia A.S, (Mar 2023), Uncovering the impact of micro plactics in shrimp: A Comprehensive Investigation of identification and characterization strategies, presented at International Conference organized by Paavai Engineering College (Autonomous) , Namakkal.
19. Arul Prakash P, Naveen Kumar K and Ruby Celsia A.S, (Mar 2023), Health concerns, consumer preference, present trends & difficulties, the efficiency of ingredients and additions in Plant based meat, presented at International Conference organized by Paavai Engineering College (Autonomous) , Namakkal.
20. Banupriya K, Nethra P, Sridevi S and Ruby Celsia A.S (2023 May), Effect of Ascorbic Acid and Aloe Vera Gel on *Agaricus Bisporus* in presented at International Conference on Innovation towards Sustainable Development Goals (SDGs) - Session 2 organised by Project Contest Innovations LLP, Chennai

21. Deepika A, Kavitha D, Monisha S and Ruby Celsia A.S, (2023 May), Studies And Analysis of *Drynaria quercifolia* in presented at International Conference on Innovation towards Sustainable Development Goals(SDGs) - Session 2 organised by Project Contest Innovations LLP, Chennai
22. Kavitha M, Kaviya Sri K, Madhumathi A and Ruby Celsia A.S, (2023 May), “Fructose from *Psidium guajava* – an Alternative natural sweetener for diabetes” n presented at International Conference on Innovation towards Sustainable Development Goals (SDGs) - Session 2 organised by Project Contest Innovations LLP, Chennai
23. Monish Kumar M , Suhith R , Ruby Celsia A S, (May 2023), Development of antioxidant edible film from mung bean (*vigna radiata*) protein enriched with lemon peel, presented at 11th International Conference on Contemporary Engineering And Technology – 2023” (Icctet – 2023), organized By Organization of Science And Innovative Engineering & Technology (OSIET). Chennai.
24. Sankari R, Hari Prabha, Ruby Celsia A.S, (June 2023), Exploring the Hazards of Microplastics in Shrimp : a Comprehensive investigation of Identification and Characterization Strategies, present at International Conference on Technological Advancements in Science, Engineering and Managemen (ICTASEM 23) Organized by JCT College of Engineering and Technology, Coimbatore.
25. Harini Priya M, Manju Abinaya K and Ruby Celsia A.S, (2022 Apr), Herbal Candy- A Review, presented at Biotechnological Effective Approach in Science and Technology, BEAST -2022, K.S.R College Of Arts And Science For Women, Tiruchengode.
26. Deepan B, Gunasekaran P, Ruby Celsia A.S, (2022 Apr), Development Methods of Nutrient Enriched Instant Noodles- A Review presented at Biotechnological Effective Approach in Science and Technology, BEAST -2022, K.S.R College Of Arts And Science For Women, Tiruchengode
27. Rajapriya M, Abinaya S and Ruby Celsia A.S, (2022 Apr), Compromising The World’s Hidden Hunger By Availing Fortification – A Review presented at Biotechnological Effective Approach in Science and Technology, BEAST -2022, K.S.R College Of Arts And Science For Women, Tiruchengode
28. Monish Kumar M , Suhith R, Ruby Celsia A.S, (2022 Apr), Systematic Study of Biodegradable Packing Material presented at Biotechnological Effective Approach in Science and Technology, BEAST -2022, K.S.R College Of Arts And Science For Women, Tiruchengode
29. R.Mala,. N Hari Prasath, Ruby Celsia A.S (2019, Jan). Size Dependent Bactericidal Activity Of Zinc Oxide Nanoparticles presented at International Conference on Nanoscience and Nanotechnology ICONN-2019, SRM Institute of Science and Technology, Kattankulathur, Chennai.
30. Ruby Celsia A.S, R.Mala (2019, Jan). Surface Modification of Urinary Catheter by Impregnation of Silver Nanoparticles to Prevent Swarming and Biofilm Formation by Clinical Isolates presented at International Conference on Nanoscience and Nanotechnology ICONN-2019, SRM Institute of Science and Technology, Kattankulathur, Chennai.

31. R.Mala, Ruby Celsia A.S, N Hari Prasath, N.Subash (2019, Jan). Emergence of Extensive Drug Resistance in Burn Wound Pathogens and their Susceptibility to Zinc Oxide Quantum Dots presented at International Conference on Nanoscience and Nanotechnology ICONN-2019, SRM Institute of Science and Technology, Kattankulathur, Chennai.
32. R.Mala, N.Hari Prasath, I.Gazana, BL.Ghayathri, Ruby Celsia A.S (2019, Jan). Antibiotic loaded nano hydroxyapatite beads as bone cement for the treatment of osteomyelitis presented at International Conference on Nanoscience and Nanotechnology ICONN-2019, SRM Institute of Science and Technology, Kattankulathur, Chennai.
33. Ruby Celsia A.S, R. Mala, N. Hari Prasad, (2018, Dec). Prevalence of lactam resistant pathogens in burn wound and their susceptibility to Zinc oxide nanoparticles, presented at 10th Bengaluru India Nano 2018, Bengaluru, Karnataka.
34. R.Mala, Ruby Celsia A.S, Varalakshmi, (2018 Jul), Multi functional nano fibrous mat for diabetic wound healing, presented at International conference on BioMaterials, BioEngineering, and BioTheranostics BioMET 2018, VIT, Vellore, Chennai.
35. Ruby Celsia A.S and R. Mala (2017 Dec) Inhibition of Swarming Mobility and Biofilm Formation of Clinical Isolates by Phytochemicals and Silver Nanoparticles presented at conference BIOPROCESSING INDIA 2017, Recent Trends in Bioprocessing for Healthcare, Energy and Environment organized by IIT Guwahati, Assam
36. Ruby Celsia A.S, N. Subash and R. Mala, (2017 Dec), Toxic Effect of Silver Nanomaterial on Adult Zebrafish , presented at International Symposium on Nanomaterials for Clean energy and Health Applications organized by Coimbatore Institute of Technology, Coimbatore
37. Ruby Celsia A.S, N. Subash and R. Mala, (2017 Dec), Burn Wound Healing activity of Composite Nano Fiber Loaded with Curcumin and *Mimosa pudica* and *Lawsonia inermis* Extract presented at International Symposium on Nanomaterials for Clean energy and Health Applications organized by Coimbatore Institute of Technology, Coimbatore.
38. R Mala and Ruby Celsia A.S, (2017 Aug), Isolation and identification of Burn wound superbugs by molecular technique and their susceptibility to silver nanoparticles, presented at International Conference on Advances in Materials and Manufacturing Applications, Amrita School of Engineering, Bengaluru
39. R.Mala and Ruby Celsia A.S, (2017 Feb), Fabrication, Characterization and Wound healing acitivity of Chitosan Gelatin Composite nanofiber loaded with Curcumin and phytochemicals, presented at Fourth International Conference on Nanostructured Materials and Nanocomposites (ICNM 2017), Mahatma Gandhi University, Kottayam, Kerala,
40. Vaishnavi S., Shurekha M., Soundaryaa N., Ruby Celsia A.S.and Mala R, (2017 Feb) Influence of Spirulina mediated Zinc oxide nano particles on germination, growth and photosynthetic pigment of *Coriandrum sativum*, presented at Fourth International Conference on Nanostructured Materials and Nanocomposited (ICNM- 2017), Mahatma Gandhi University, Kottayam, Kerala.

41. Ruby Celsia A.S and Mala R., (2017 Jan), Influence of Silver nanoparticles on Swarming mobility of *Proteus mirabilis*" presented at Section of New biology, Proceedings of the 104th Indian Science Congress, Sri Venkateswara University, Tirupathi, P184.
42. Mala R. and Ruby Celsia A.S (2017 Jan), Effect of *Ananas cosmosus* fruit on crystalline biofilm formation in foley catheter presented at Section of medical sciences, Proceedings of the 104th Indian Science Congress, Sri Venkateswara University, Tirupathi, p125.
43. Ruby Celsia A.S and Mala R, (2017 Jan), Influence of Silver nanoparticles on Swarming mobility of *Proteus mirabilis* presented at Section of New biology, Proceedings of the 104th Indian Science Congress, Sri Venkateswara University, Tirupathi, P184
44. Ruby Celsia A.S and Mahalakshmi R, Rajeswari S and Mala R (2016 Dec), Agronomic Biofortification of *Amaranthus dubius* with macronutrients and Vitamin A" presented at International Conference on Advanced material technologies (ICAMT 2016), Dad institute of Engineering and Technology, Visakhapatnam.
45. Ruby Celsia A.S Geerthika S., Mala R. and Malathi Devi S.,(2016 Dec) "Comparison on bactericidal and cytotoxic effect of silver nanoparticles synthesized by different methods" presented at International conference on Advanced material technologies (ICAMT 2016), Dadi Institute of Engineering and Technology, Visakhapatnam.
46. Ruby Celsia A.S, Geerthika and Mala R, (2016 Jan) Antibiofilm Property of *Zingiber officinale* and *Piper nigrum*", presented at 103rd Indian Science Congress, section of New biology, University of Mysore, Mysuru ,Karnataka.
47. Ruby Celsia A.S and Mala R, (2016.Jan),Control of Crystalline Biofilm by Nanocomposite", presented at National Conference of Microbial Biofilm, SASTRA University, Tanjore,
48. VidhyaBharathi S, Ruby Celsia A.S, Raja BlessinaS,Uma Maheswari G and Mala R. (2015 Dec) presented at Influence of Slow release Nanofertilizer System on Germination and Biochemical Characteristics of *Vigna radiate* presented at International Conference on Nanomaterials and Nanotechnology (NANO-2015),KS Rangasamy College of Technology, Tiruchengode.
49. Ruby Celsia A.S and Mala R. (2015 Nov) "Susceptibility of Catheter Associated Uropathogens to Silver and Copper Nanocomposite" presented at in the International Conference on Nanostructured Polymeric Materials and Polymer Nanocomposites, ICNPM 2015" Organized by International and Inter university Centre for Nanoscience and Nano technology,Mahatma Gandhi University, Kottayam
50. Vidhya Barathi S, Ruby Celsia A.S and Mala R. (Feb, 2015) Fabrication of nanostructured slow release fertilizer system as a carrier of PGPR and its influence on germination of *Vigna radiate* presented at event on Bangalore India Bio,Organized by the Government of Karnataka, Bangalore
51. Ruby Celsia A.S and Mala R, (2016 Jan) "Control of Crystalline Biofilm by Nanocomposite", presented at National Conference of Microbial Biofilm, SASTRA University, Tanjore.

52. “Poster –Walkway of Discovery (2015 Feb), presented at Bangalore India Bio 2015-India’s Biggest Biotech Show”, Organized by Government of Karnataka, Bangalore, Karnataka.
53. Mala R.,and Ruby Celsia A.S (2014 Oct), Slow release of CAPNG from neem cake and its influence on germination of *Arachis hypogea*, presented at International Conference on Agri2014, Organized OMICS, Hyderabad, Andhra Pradesh.
54. Ruby Celsia A.S and Mala R. (Oct 2014)”Fabrication of Nanostructured PGPR mediated Slow release fertilizer system and its influence on germination of *Arachis hypogea*”, presented at International Conference on Agriculture and Horticulture, Organized by OMICS, Hyderabad, Andhra Pradesh.
55. Ruby Celsia A.S and Mala R. (Oct 2014), Supersorbable polymer sponge for 3D culture and delivery of PGPR presented at International Conference on polymer processing and characterization- ICPPC 2014,Organized by International and Inter University centre for Nanoscience and Nanotechnology, Kottayam, Kerala,
56. Ruby Celsia A.S and Mala R. (2014 Jul), Fabrication and Characterization of Nano-structured slow release fertilizer system and its influence on germination on *Vigna radiate*. presented at Recent advances in Chemical Engineering Technology, Annamalai University, Chidambaram
57. Ruby Celsia A.S, Raja Blessina S,Uma Maheswari G and Mala R. (2014 Mar) , Influence of IPNS on germination of *Vigna radiate*, presented at national conference on Integrated Approaches for Sustainable Agriculture, Annamalai University, Chidambaram.

8. Recent Professional Development & Faculty Training

1. The Future of Pedagogy: ChatGPT and AI Tools as Teaching Assistants | AVS Engineering College (AICTE ATAL Academy) | Jan 5 – 10, 2026
2. Empowering Educators through the Essence of AI & Data Science with Human Values Sree Buddha College of Engineering (AICTE ATAL Academy) | Jan 5 – 10, 2026
3. Refresher Course: Harnessing AI for Pedagogical Excellence and Academic Productivity | NIT Warangal (Hybrid: Online & Offline) | Dec 13 – 24, 2025
4. Exploratory Data Analytics (EDA) – Tools and Techniques | Velammal College of Engineering & Technology (AICTE ATAL Academy) | Nov 24 – 29, 2025
5. AI for Industry 4.0: Bridging Academia and Industry Applications | Global Group of Institutes (AICTE ATAL Academy) | Nov 17 – 22, 2025
6. Workshop on Animal Handling and Cell Culture Techniques | Bethal Bio Research Centre, Chennai, India | Oct 13 – 17, 2025
7. Microplastics as Emerging Pollutants: Analytical and Monitoring Perspectives | KPRIT College of Engineering (AICTE ATAL Academy) | Sept 22 – 27, 2025
8. Empowering Educators with AI in Teaching & Research | Sanjay Ghodawat Institute (AICTE ATAL Academy) | Sept 1 – 6, 2025

9. Building an Ethical Campus Culture from Classrooms to Governance | T.J.S. College of Arts and Science (AICTE ATAL Academy) | Aug 25 – 30, 2025
10. Design Thinking for HEI towards Education 5.0 | Nehru College of Management (AICTE ATAL Academy) | Aug 18 – 23, 2025
11. GIAN Course entitled “Nanobiotechnology for Healthcare” by IIT Kharagpur, West Bengal, 2015 June 29th to 2015 July 8th
12. TEQIP – II sponsored FDP on “Advances in Nanotechnology and Analytical Instrumentation in Health Sciences” by BIT Campus, Anna University Tiruchy, 2016 June 24th to 2016 July 7th.
13. Five Days E-Workshop on Scientific Communication for Researchers organized by Research & Development Centre, B. M. S. College of Engineering, BENGALURU, 2023 May 29th to June 2nd
14. DBT,TNSCST,NCSTC,DST-GOI sponsored National level workshop on Animal Cell Culture Techniques, organized by DBT, Lady Dock College, Madurai, 2017 Sept 4th to 8th .
15. Workshop on Social Science Research Methodology and use of SPSS software for data analysis organized by Bharathiyar University, Coimbatore, 2014 May 5th to 9th.
16. National level workshop on Modern Scientific Techniques for Indian system of medicine and Natural products development organized by AU-KBC Research centre, MIT Campus of Anna University, Chennai, 2014 June 17th to 21st.
17. Workshop on “ Computer aided drug design and pharmacogenomics” by Amirtha Vishwa vidhyapeetham, Coimbatore, 2014 July 23rd to 27th
18. One Week National Level Online Faculty Development Program On “Outcome Based Education through Student Centric Teaching-Learning Process” held from 22/05/2023 to 26/05/2023 Organized by Department of Engineering Science , BSIOTR Wagholi, Pune in association with “IETE Pune Centre” & “IEEE Communication Society Pune Chair”
19. Three Day Faculty Development Program on Emotional Intelligence conducted by ICT Academy on 02 May 2023 to 04 May 2023 at The Kavery Engineering College, Bhavani
20. Five days workshop on Molecular Materials and Engineering organized by NIT Warangal, Warangal, 2023 Mar 27th – 31st
21. Five days Online STTP on Recent Advancements in medicinal Chemistry and Material Science (RAMCMS – 2023), organized by Department of Humanities and Science, Vardhaman College of Engineering, Hyderabad, 2023 Apr 24th to 28th .
22. One Week International Virtual Faculty Development Program on Research Methods, Tools and Techniques for Multidisciplinary Research Design Organised by Govt SPMR College of Commerce, Jammu and Kashmir, India in collaboration with Cape Comorin Trust, India from 2023 Feb 20th -26th

23. 5-day Face-to-Face UHV-II FDP organized By All India Council for Technical Education (AICTE) at Sri Sairam Engineering College Autonomous, Chennai from 2022 July 26th - 30th
24. Five Days Online 'Faculty Development Program' on 'Current Trends In Biotechnology, Food Technology And Chemical Engineering' from 2022 APRIL 13th - 17th
25. 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) from 14th March, 2022 to 18th March, 2022.
26. Ideation and Proposal Writing Workshop jointly organized by PALS and Rural Technology Action Group, IIT Madras on 2022 March, 2nd and 3rd
27. ICMR Sponsored National workshop on Nanoscience and Nanotechnology, organized by Pondicherry University, Pondicherry, 2016 March 3rd to 5th .
28. National Level workshop on Theory and Practice of X-ray diffraction techniques, organized by ACCET, Karaikudi, 2017 May 25th to 27th .
29. Continuous Education Program on "Workshop on Medical Biomaterials", organized by IIT Madras, 2017 June 23rd & 24th .
30. DBT Sponsored Hands on workshop on Recent research on trends in computing techniques for bioinformatics, organized by MCA, Mepco Schlenk Engineering College, Sivakasi, 2015 July 24th & 25th .
31. Two days workshop on Hands on training in composites perform formation techniques and its characterization, organized by PSGTECHS COE INDUTECH, Coimbatore, 2017 June 8th& 9th
32. One day National level workshop on Writing Scientific Research Paper – Phase II, SSN College of Engineering, Chennai, 2016 Sep 23rd.
33. National webinar on AI Tools for Academic Research organized by the School of CSE, Jain Univerisity, Bangalore, 2023 Mar 31st.
34. National webinar on "Bridging the industry-academia gap to explore biotechnology career" organized by Department of Biotechnology, Maharishi Markandeshwar (Deemed to be) University & Central Research Cell (CRC), Mullana, Ambala, 20th APRIL, 2022
35. National Seminar on "To start a start up in Biotechnology", organized by DBT, Mepco Schlenk Engineering College, Sivakasi, 2019 March 15.
36. National Seminar on "Understanding Biology through large scale data analysis", organized by DBT, Mepco Schlenk Engineering College, Sivakasi, 2018 March 17.
37. National Seminar on "Recent advances in Biochemical Engineering", organized by DBT, Mepco Schlenk Engineering College, Sivakasi, 2016 Sep 30.
38. National Seminar on "Paradigms of Plant microbe interactions", organized by DBT, Mepco Schlenk Engineering College, Sivakasi, 2016 Feb 26.

39. National Seminar on “Molecular virology”, organized by DBT, Mepco Schlenk Engineering College, Sivakasi, 2014 Sep 27.
40. National Seminar on “Application of proteomic technologies in Clinical Biochemistry”, organized by DBT, Mepco Schlenk Engineering College, Sivakasi, 2014 Feb 28.
41. National Seminar on “Advances in Agricultural Biotechnology”, organized by DBT, Mepco Schlenk Engineering College, Sivakasi, 2013 March 16.
42. National Seminar on “Advances in Medical Biotechnology”, organized by DBT, Mepco Schlenk Engineering College, Sivakasi, 2012 Sep 29.
43. Attended an international webinar series on “Herbal biomolecules: Novel food technologies in the wake of corona pandemic” organized by AFSTI- Chennai chapter, TANUVAS and FSSAI. 27-28, August 2020

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

- Indian Society for Technical Education ISTE –Lifetime Member -139312, 2024
- International Association of Engineers (IAENG) LIFETIME MEMBERSHIP, IAENG membership number : 344971, 2023
- Association Of Food Scientists And Technologist India, Full Member - AFSTI/FM/2024/282, 2024
- The Institution of Green Engineering- IGEN GREEN9ENSAVCLUB- Professional Membership, 2024
- InRes Institute of Researchers- Lifetime Member-LM042412, 2024
- Tech Forum Research Foundation-Lifetime Member-TFRFLM621325, 2024

9. AWARDS AND HONOURS

- InRes Academic Excellence Award 2024 by Institute of Researchers, 10.05.2024
- Best Researcher Award by National Foundation for Innovative Scientific Research and Technology, 27.04.2024
- Best Presenter Award for the work “Effect of Ascorbic Acid and Aloe Vera Gel on *Agaricus bisporus*” in presented at International Conference on Innovation towards Sustainable Development Goals (SDGs) - Session 2 organised by Project Contest Innovations LLP, Chennai, 2023 May
- Best Presented Award for the work “Studies and Analysis of *Drynaria quercifolia* in presented at International Conference on Innovation towards Sustainable Development Goals (SDGs) - Session 2 organised by Project Contest Innovations LLP, Chennai, 2023 May
- Second Prize in National level Nanotechnology competition “PSG NANOCHALLENGE -2017” organized by PSG College of Technology Coimbatore, 2017
- Best Poster award in the Thematic area “Biomaterial” in the conference BIOPROCESSING INDIA 2017 in IIT Guwahati, Assam.

- Award as Young researcher award in the conference “Recent trends in clean Technology and sustainable environment” organized by SSN college of engineering, Chennai,15thSep,2017
- First prize in My Idea Presentation in the National Conference on Microbial Biofilms, organized by SASTRA University, Tanjore, Tamilnadu, Jan 29-31,2016.
- Secured “BEST PROJECT AWARD” organized by the Department of Biotechnology, Mepco Schlenk Engineering College, Sivakasi,2014.
- Secured “FIRST Prize in National Conference on Sustainable agriculture” organized by the Department of Agronomy, Annamalai Univeristy, Chidambaram,2014.

10. GUEST LECTURE DELIVERED

- “Five days Value Added Course on Nano Materials Technology for Mechanical Engineers”, PSN College of Engineering and Technology, Tirunelveli from 25.10.21 to 29.10.21
- “Emerging Trends and Recent Advancements in Nutraceuticals and Therapeutic Supplements as Future Ceuticals” K S Rangasamy College of Technology, Namakkal, 14.03.2025

11. CONTRIBUTION TO SCIENTIFIC COMMUNITY

- Actively peer reviewer for the publishers
 - Springer Nature
 - Bentham Publications
 - IGI Global
 - American Chemical Society (ACS) Books

12. NCBI GENBANK SUBMISSIONS:

Submitted & published 25 novel nucleotide sequences to the NCBI GenBank database, contributing to global genetic resources for microbial research.

S.No	Strain Name	GenBank Id
1	<i>Alcaligenes faecalis strain DSTNMRM4</i>	MF143519
2	<i>Bacillus licheniformis strain SKPRM17</i>	KY702008
3	<i>Escherichia coli strain ASRM93</i>	KY770797
4	<i>Klebsiella pneumoniae strain RM17</i>	KY770796
5	<i>Pseudomonas aeruginosa strain DSTNMRM20</i>	KY770795.
6	<i>Pseudomonas stutzeri strain DSTNMRM19</i>	KY770794
7	<i>Pseudomonas stutzeri strain DSTNMRM18</i>	KY770793
8	<i>Staphylococcus aureus strain DSTNMRM17</i>	KY770792
9	<i>Alcaligenes faecalis strain DSTNMRM16</i>	KY770791

10	<i>Bacillus subtilis strain DSTNMRM15</i>	KY770790
11	<i>Paenibacillus alvei strain DSTNMRM14</i>	KY770789
12	<i>Pseudomonas stutzeri strain DSTNMRM12</i>	KY770787
13	<i>Aeromonas veronii strain DSTNMRM10</i>	KY770786
14	<i>Pseudomonas aeruginosa strain DSTNMRM9</i>	KY770785
15	<i>Pseudomonas aeruginosa strain DSTNMRM8</i>	KY770784
16	<i>Staphylococcus aureus strain DSTNMRM7</i>	KY770783
17	<i>Staphylococcus aureus strain DSTNMRM5</i>	KY770781
18	<i>Klebsiella pneumoniae strain DSTNMRM3</i>	KY770780
19	<i>Staphylococcus aureus strain DSTNMRM2</i>	KY770779
20	<i>Staphylococcus aureus strain DSTNMRM1</i>	KY770778
21	<i>Staphylococcus aureus strain NMRMA1</i>	KY586049
22	<i>Bacillus subterraneus strain DSTNMRM13</i>	KY770788
23	<i>Bacillus subterraneus strain DSTNMRM6</i>	KY770782
24	<i>Providencia vermicola strain MRMSEC16</i>	KX296689
25	<i>Proteus mirabilis strain MRKMSEC 72 1</i>	KX384040

Teaching Statement

As a Assistant Professor, my primary goal is to bridge the gap between theoretical biotechnology and its practical, real-world applications. I am committed to implementing Outcome-Based Education (OBE), moving beyond traditional lectures to incorporate interactive, case-study-based learning. My objective is to create an inclusive classroom environment that simplifies complex concepts in nanotechnology and microbiology, fostering critical thinking and analytical skills in my students to prepare them for both academic excellence and industrial readiness

Research Statement

My research focus lies at the intersection of Bio-Technology and Green Nanotechnology. Having worked extensively on the synthesis and characterization of nanomaterials, my immediate goal is to develop sustainable, bioactive-infused edible coatings to enhance food shelf-life and safety. I am particularly interested in exploring eco-friendly extraction methods from botanical sources to create zero-waste packaging solutions. Moving forward, I aim to establish collaborative research projects that address microbial biofilm management and the development of nanosensors for food quality monitoring.

Professional Objectives

1. To contribute actively to departmental growth through meticulous documentation for accreditation bodies like NBA and NAAC.

2. To mentor students in research and innovation, guiding them toward impactful final-year projects and publications in indexed journals.
3. To continuously upgrade my technical repertoire through FDPs and certifications in emerging areas like AI in Biotechnology and Entrepreneurship Education.