



ABOUT ME

Passionate and dedicated teacher with a deep commitment to education, research, and student success. With 13 years of experience in Microbiology, I strive to create an engaging and intellectually stimulating learning environment that fosters critical thinking and academic excellence. Beyond the classroom, I take pride in mentoring students, guiding them in their academic and professional journeys. A lifelong learner, I am always seeking innovative teaching methods and collaborative opportunities to inspire the next generation of scholars and professionals.

SKILLS

Communication skills, Class room management, Subject matter expertise, Pedagogical skills, Technological proficiency, Mentoring and guidance, Creativity and innovation, Patience and adaptability, Collaboration and team work.

CONTACT

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Dr. ASHA B

Asst. Professor

Department of Microbiology,
Safi Institute of Advanced Study,
Rasiya Nagar, Vazhayoor East,
Malappuram, Kerala. 673633

EDUCATION

Ph D Microbiology 2014-2020

Karpagam Academy of Higher Education, Coimbatore

B Ed Natural Science 2006-2007

Govt. College of Teacher Education, Kozhikode

Mark Percentage secured: 66%

M Sc Microbiology 2002-2004

School of Biosciences, M G University, Kottayam

Mark Percentage secured: 66%

B Sc Zoology 1999-2002

Govt. College, Kodancherry, Kozhikode

Mark Percentage secured: 87%

- **QUALIFIED ‘CSIR-NET’ IN ‘LIFESCIENCES’**

WORK EXPERIENCE

Asst. Professor 2012-Present

Department of Microbiology, SAFI Institute of Advanced Study, Rasiya Nagar, Vazhayoor East, Malappuram, Kerala. 673633

Microbiologist 2011-2012

DB Lulu’s Zebra Speciality Laboratory, Kozhikode

Lecturer in Microbiology 2008-2009

M A M O College, Mukkam, Kozhikode

BOOK PUBLISHED

As Editor of the book ‘**Insights into Advanced in Life Sciences**’, by SKJ Publishers in 2020.

JOURNAL PUBLICATIONS

1. Shaima, Mariyam H, Nasri M K F, **Asha B**, Shabanamol S and Govindan M S (2025). Identification and probiotic evaluation of lactic acid bacteria isolated from coconut inflorescence sap (Neera). Asian Journal of Dairy and Food Research. 1-7. <https://doi.org/10.18805/ajdfr.DR-2314>.
2. **B Asha**, N K Shainy and M Palaniswamy (2025). Immobilisation, characterisation and zymogram analysis of alkaline protease produced by *Bacillus cereus* FT 11. Proceedings of the Indian National Science Academy. 1-8. <https://doi.org/10.1007/s43538-025-00391-5>
3. N K Shainy, **Asha B**, Shabanamol S, Farha Baramy, Aswathi A and Kulandhaivel M (2024). Enhanced quinalphos degradation using immobilised cells of *Enterobacter cloacae* isolated from farmland soil of Vazhayoor panchayath, Malappuram District, Kerala. Journal of Applied Biology and Biotechnology. Vol 12 (6). 96-104. <https://doi.org/10.7324/JABB.2024.197535>
4. **Asha B** and Palaniswamy M. (2021). Study of the applications of alkaline protease produced by soil isolated *Bacillus cereus* FT 11. Journal of Primeasia, 2(1): 1-8.
5. **Asha B** and Palaniswamy M. (2018). Characterization of crude and partially purified thermo active and thermo stable alkaline protease produced by *Bacillus cereus* FT1. Journal of Pharmaceutical Sciences and Research. 10(1): 180 – 187.
6. **B. Asha** and M. Palaniswamy (2018). Optimization of alkaline protease production by *Bacillus cereus* FT 1 isolated from soil. Journal of Applied Pharmaceutical Sciences. 8(02): 119 -127. <https://doi.org/10.7324/JAPS.2018.8219>.

BOOK CHAPTER PUBLICATIONS

1. **Asha B**, Farha Baramy and Aswathi A (2025). Bioluminescent marine bacteria as biosensors for heavy metal detection in water supplies. Proceedings of International Conference on Research Pathways to 2030: Insights for Sustainable Development- PCAS JMRF. ISBN: 978-81-979165-3.
2. Farha Baramy, **Asha B** and Anju (2025). In vitro evaluation of Ciprofloxacin based combinations against clinical bacterial pathogens. Proceedings of International Conference on Research Pathways to 2030: Insights for Sustainable Development- PCAS JMRF. ISBN: 978-81-979165-3.
3. **Asha B** and Fabina (2024). Antibacterial activity and minimum inhibitory concentration (MIC) determination of *Cinnamomum tamala* against bacterial pathogens. Proceedings and abstracts of the “International conference on Advancements and Innovations in Phytochemistry, Nutraceuticals and Functional Foods”. ISBN: 978-81-954713-7-9.

4. Mashitha PK and **Asha B** (2021). Production and partial characterisation of alkaline protease from *Pseudomonas* sp. isolated from soil. Proceedings of International symposium of ‘Eco friendly Technologies for Sustainable Future’. ISBN: 978-93-5473-469-4.
5. **Asha B**, Rasha Afnan M V, Sana Fathima P and Shainy N K (2020). Antibacterial activity of the leaf and flower extracts of *Centratherum punctatum*, the Brazilian button flower, against clinical pathogens. Insights in to Advances in Life sciences. ISBN: 978-93-82845-41-6.
6. Anusree T E, Shainy NK, **Asha B** and Siljo Abraham (2020). A comparative study of infection control of leaf blight disease in *Hevea brasiliensis* by newly isolated fungus. Insights in to Advances in Life sciences. ISBN: 978-93-82845-41-6.
7. **Asha B** and Shainy NK. (2019). Optimisation of extracellular invertase enzyme production by *Bacillus* sp. isolated from bagasse. Proceedings of ‘BIOCONFERENCE’18’ National conference on ‘Recent Trends in Biology’, “BIO-COMPRENSION”. ISBN: 978-93-5382-190-6.
8. Shainy NK and **Asha B**. (2019). Antifungal activity of bacteria isolated from rhizosphere soil. Proceedings of ‘BIOCONFERENCE’18’ National conference on ‘Recent Trends in Biology’, “BIOCOMPRENSION”. ISBN: 978-93-5382-190-6.
9. Sabna Fathima, **Asha B** and Palaniswamy M. (2019). Production, immobilization and characterization of alkaline protease produced by soil isolated *Bacillus* sp. Proceedings of National Seminar, ‘Symbiosis’18’- Research In Agricultural, Environmental, Industrial And Food Microbiology: Advances And Challenges”. ISBN: 978-93-5300-740-9.
10. **Asha B** and Palaniswamy M (2017). Statistical optimisation of alkaline protease produced by locally isolated *Bacillus* sp. using response surface experimental design. Advances in Microbiology, Proceeding of National Seminar Biospark’16: “Nanotechnology meets Microbiology”: ISBN: 978-3-330-07223-7. 16 – 27.
11. Remya T, Kunhi A A M, **Asha B**, Shainy N K and Farha Baramy (2017). Production, partial purification and characterisation of thermo active and thermo stable alkaline protease from *Bacillus* sp. S CSR 0001 isolated from soil. Advances in Microbiology, Proceeding of National Seminar Biospark’16: “Nanotechnology meets Microbiology”: ISBN: 978-3-330-07223-7. 28 – 46.

RESEARCH PROJECTS UNDERTAKEN

1. Statistical characterization of cellulase enzyme produced by *Fusarium equiseti* isolated from soil. January 2023- June 2023. principle investigator.
2. Antibacterial and MIC determination of *Cinnamomum tamala* against bacterial strains. January 2023- June 2023. principle investigator.

3. Microbiological analysis of commercially prepared yoghurt collected from Kozhikode and Malappuram, Kerala. January 2023- June 2023. principle investigator.
4. Characterization of alkaline protease produced by soil isolated *Staphylococcus* sp. December 2020 – March 2021. principle investigator.
5. MIC determination *Centratherum punctatum*, the Brazilian button flower leaf extract against pathogenic bacterial strains. December 2020 – March 2021. principle investigator.
6. Isolation of protease producing bacteria from spoiled food. December 2020 – March 2021. principle investigator.
7. Antibacterial activity of the leaf and flower extracts of *Centratherum punctatum*, the Brazilian button flower, against clinical pathogens. December 2019 – March 2020. principle investigator.
8. Production of alkaline protease from *Bacillus cereus* FT11 and its applications. January 2014 – August 2020. principle investigator.
9. Application of sea water isolated bioluminescent bacterium as biosensor in detecting heavy metal pollution in water. December 2018 – March 2019. principle investigator.
10. Optimisation of extracellular invertase enzyme production by *Bacillus* sp. isolated from sugarcane waste. December 2017 – March 2018. principle investigator.
11. Characterization of immobilized alkaline protease enzyme produced by *Bacillus* sp. S-CSR-0001. December 2016 - March 2017. principle investigator.
12. Application studies of partially purified alkaline protease enzyme produced by *Bacillus* sp. S-CSR0001. December 2016 - March 2017. principle investigator.
13. Bioethanol production by the cellulolytic activity of *Syncephalastrum* sp. isolated from decaying wood and alcoholic fermentation of *Saccharomyces cerevisiae*. December 2016 – March 2017. principle investigator.
14. Production, optimization and characterization of cellulase enzyme produced by *Trichoderma viridae* S-CSR-0027 isolated from decaying wood. December 2015 – March 2016. principle investigator.
15. Isolation, identification and characterization of bioluminescent bacteria from marine fish sample and their application as biosensors to detect heavy metal pollution in water supplies. December 2015 – March 2016. principle investigator.
16. Production and partial characterization of thermoactive alkaline protease produced by *Aspergillus clavatus* S-CSR-0023 and statistical optimization of cultural conditions for maximum production of protease enzyme. December 2014 – March 2015. principle investigator.
17. In vitro antimicrobial activity of leaf extract of *Santalum album* against multi drug resistant *Staphylococcus aureus*. December 2014 – March 2015. principle investigator.

18. Production and partial characterization of thermostable alkaline protease produced by *Bacillus coagulans* S-CSR 0001. January 2014 – June 2014. principle investigator.
19. Production and partial characterization of alkaline protease produced by *Pseudomonas aeruginosa* S-CSR-0009. January 2014 – June 2014. principle investigator.
20. Isolation and identification of protease producing microorganisms from spoiled fish and milk and a comparative study on the activity of their protease enzymes. December 2013 – March 2014. principle investigator.

PAPER/ POSTER PRESENTATIONS

1. Paper titled '**Bioluminescent marine bacteria as biosensors for heavy metal detection in water supplies**' in the one-day International Conference in '**Research Pathways to 2030: Insights for sustainable development**' organized by the Department of Corporate Secretaryship of Patrician College of Arts and Science in collaboration with CA and professional accounting of Kongu Arts and Science College (Autonomous) and PCAS Research Centre on 26th September 2025.
2. Paper titled '**Application of bioluminescent bacteria in evaluating the impact of heavy metals: isolation and characterization studies**' in the 4th International conference on '**Microbial innovations for a sustainable future (ICMISF-2025)**', organized by PG and research department of Microbiology, Jamal Mohamed College (Autonomous), Thiruchirappalli, TamilNadu, India, in association with ICAR-National Research Centre for Banana on 11th September 2025.
3. Paper titled '**Antimicrobial activity and minimum inhibitory concentration (MIC) determination of Cinnamomum tamala against bacterial pathogens**' in the International conference on '**Advancement and innovations in phytochemistry, nutraceuticals and functional foods**' held at MACFAST, Pathanamthitta, Kerala on November 11-12, 2024.
4. Paper titled '**Isolation and characterization of bioluminescent bacteria and application study on effect of heavy metals on luminescence**' in the KSCSTE sponsored National seminar '**Bio-Conference 2022**' on '**Advances in Bioscience Research**' organized by the Department of Biotechnology, EMEA College of Arts and Science, Kondotty on 29-30, November 2022.
5. Paper titled '**RSM optimisation of alkaline protease production by Bacillus cereus FT11**' in '**Two-day International Conference Proceedings in Life Science**' held on 1-2 March 2021.
6. Poster titled '**Study of the applications of alkaline protease produced by soil isolated Bacillus cereus FT 11**' in the '**1st International E-conference on Microbiology- COVID 19 and Current issues**' organized by Department of Microbiology, Primeasia University on 31 January 2021.
7. Paper titled '**Immobilization, characterization and zymogram analysis of alkaline protease produced by Bacillus cereus FT11**' in the '**International conference on Emerging Strategies in Antimicrobial**

Agents and Bio innovations' organized by the **Department of Microbiology, School of Science, RK University** on 18-19 December 2020.

8. Paper titled '**Characterisation of immobilised alkaline protease enzyme produced by soil isolated *Bacillus* sp.**' in the '**MESMAC International conference on Ecologies of the new: Matter, Mind and Body**' organized by MES Mampad College (Autonomous), Mampad, Malappuram, Kerala on 9, 10 and 11 January 2018.
9. Paper titled '**Characterization of immobilized alkaline protease enzyme produced by *Bacillus cereus* FT1**' in the '**9th Annual Research Congress (KAHEARC-2017)**' held at Karpagam Academy of Higher Education, Coimbatore on 9th December 2017.
10. Paper titled '**Isolation and identification of thermo active alkaline protease producing bacteria from soil and optimisation of cultural conditions for maximum enzyme production**' in the '**7th Annual Research Congress (KAHEARC-2015)**' held at Karpagam Academy of Higher Education, Coimbatore on December 26, 2015.
11. Paper titled '**Optimisation of alkaline protease production by soil isolated *Bacillus* sp. using response surface experimental design**' in the UGC sponsored National seminar on 'Nanotechnology meets Microbiology' conducted by the Department of Microbiology, EMEA College of Arts and Science, Kondotty, on 17-18 February 2016.
12. Paper titled '**Production, partial purification and characterization of a thermo stable and thermo active alkaline protease from *Bacillus* sp. S CR 0001**' in the '**National conference on Role of Biopharmaceuticals in achieving health by 2020**' conducted by the Department of Biochemistry and Clinical Laboratory Technology, Dr. N G P Arts and Science College (Autonomous) Coimbatore, Tamil Nadu held on 10-11 July 2015.

MEMBERSHIP IN PROFESSIONAL BODIES, AWARDS AND RECOGNITION

- Member of **American Society of Microbiology**.
- Lifetime member of **Kerala Academy of Science (KAS)**. Membership number **L720**.
- ❖ **Best Paper Presentation award** in the 'Two days International Conference - Proceeding in Life Science' conducted on 1st and 2nd March 2021 by **International Journal of Microbial Sciences (IJMS)**.
- ❖ **3rd Position in poster presentation** in the '1st International E- Conference on Microbiology: COVID 19 and Current Issues' conducted on 31st January 2021 by **Primeasia University, Dhaka, Bangladesh**.

DECLARATION

"I affirm that the details in this CV are true and reflect my qualifications, experience, and commitment to excellence."

PLACE: VAZHAYOOR

DATE: 03-11-2025



Dr. ASHA B