

## **DR. ASHA B**



**Designation: Assistant Professor, Department of Microbiology**

**Qualification: Ph D**

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A dedicated and resourceful teacher who is committed to the academic and social development of every student. She is a post graduate in Microbiology from School of Biosciences, Mahatma Gandhi University, Kottayam and pursued her Ph. D in Industrial Microbiology in the topic ‘Production of alkaline protease from *Bacillus cereus* FT11 and its applications’ from Karpagam Academy of Higher Education, Coimbatore in the year 2020. She has a wide area of interest in teaching such as Food and Dairy Microbiology, Soil and Agricultural Microbiology, Environmental and Sanitation Microbiology and Medical Microbiology. Her research interests include Microbial enzymes, Bioluminescence and antimicrobial activities of plant extracts. She has a number of publications in several Scopus indexed journals and ISBN publications.

### **EDUCATIONAL QUALIFICATION**

- Ph. D in Microbiology in the topic topic ‘Production of alkaline protease from *Bacillus cereus* FT11 and its applications’ from Karpagam Academy of Higher Education, Coimbatore.
- M Sc in Microbiology from School of Biosciences, Mahatma Gandhi University, Kottayam
- B Ed in Natural Science from Govt. College of Teacher Education, Kozhikode
- CSIR-NET in Lifesciences

### **WORK EXPERIENCE**

- Asst. Professor in the Department of Microbiology at SAFI Institute of Advanced Study from 1<sup>st</sup> October 2012 till date.
- Lecturer in Microbiology at M A M O College, Mukkam, Kozhikode from June 2008 to August 2009.

- Microbiologist at Db Lulu's Zebra Specialty Laboratory, Kozhikode from October 2011 to September 2012.

## AERA OF INTERESTS

- **Teaching:** Food and Dairy Microbiology, Soil and Agricultural Microbiology, Environmental and Sanitation Microbiology, Medical Microbiology.
- **Research:** Microbial enzymes, Bioluminescence, Antimicrobial activity of plant extracts.

## PUBLICATION

- 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.
- 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. Proceedings of International Web conference, BIOINVENTIYON, 2020. ISBN: 978-93-82845-41-6.
- Anusree TE, 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. Proceedings of International Web conference, BIOINVENTIYON, 2020. ISBN: 978-93-82845-41-6.
- 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-COMPREHENSION". ISBN: 978-93-5382-190-6.
- 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', "BIO-COMPREHENSION". ISBN: 978-93-5382-190-6.
- 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.
- 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.

- 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.
- 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.
- 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.
- Jishna T, Shimna U, Shainy N K, Shana Sherin C, Asha B and Kunhi A A M (2017). Isolation and characterisation of Dimethyl phenol (2,6 and 2,3 xylenol) degrading bacterium from petroleum contaminated soil. Advances in Microbiology, Proceeding of National Seminar Biospark'16: "Nanotechnology meets Microbiology": ISBN: 978-3-330-07223-7. 85 – 94.

## PRESENTATIONS

### Paper Presentations:

- RSM Optimization of alkaline protease production by *Bacillus cereus* FT 11. 2021. Two days International Conference Proceeding in Life Science organized by International Journal of Microbial Sciences.
- Immobilization, Characterization, and Zymogram analysis of alkaline protease produced by *Bacillus cereus* FT 11. 2020. Emerging Strategies in Antimicrobial agents and bio-innovations organized by Centre for professional development, R K University, Rajkot, Gujarat.
- Characterization of immobilized alkaline protease enzyme produced by soil isolated *Bacillus* sp. 2018. MESMAC International conferences- Ecologies of the New: Matter, Mind and Body organized by MES Mampad College, Malappuram
- Characterization of immobilized alkaline protease produced by *Bacillus cereus* FT1. 2017. 9<sup>th</sup> Annual Research Congress KAHEARC- 2017- National Research Congress organized by Karpagam Academy of Higher Education, Coimbatore.

- Optimization of alkaline protease production by soil isolated *Bacillus* sp using Response surface experimental design. 2016. Biospark'16: "Nanotechnology meets Microbiology"- UGC Sponsored National seminar organized by Department of Microbiology, EMEA College of Arts and Science, Kondotty.
- Isolation and identification of thermo active alkaline protease producing bacteria from soil and optimization of cultural conditions for maximum enzyme production. 2015. 7<sup>th</sup> Annual Research Congress, KUARC-2015- National Research Congress organized by Karpagam Academy of Higher Education, Coimbatore.
- Production, partial purification and characterization of a thermostable and thermoactive alkaline protease from *Bacillus* sp. 2015. "Role of Biopharmaceuticals in achieving health by 2020" – National Conference organized by Department of Biochemistry and Clinical laboratory technology, Dr. NGP Arts and Science College, Coimbatore.
- Poster presentations;
- Study of the applications of alkaline protease produced by soil isolated *Bacillus cereus* FT 11. 2021. 1<sup>st</sup> International e-conference on Microbiology: COVID 19 and current issues organized by Primeasia University, Dhaka, Bangladesh.

#### **WORKSHOPS/ TRAINING ATTENDED**

- One-week FDP: Edu. Tech Hands-on Online Workshop organized by Faculty Development Centre of Kerala State Higher Education Council, Trivandrum, Kerala on 23<sup>rd</sup> to 28<sup>th</sup> June 2021.
- FDP: The role of science and spirituality for a harmonious and fulfilling human community organized by Research foundation of India and St. Paut Institute of Professional Studies, Indore on 15<sup>th</sup> to 19<sup>th</sup> March 2021.
- 8 day FDP for college teachers organized by Farook College, Kozhikode on 17<sup>th</sup> to 25<sup>th</sup> July 2020.
- FDP on E learning organized by ECDC and IQAC, SAFI Institute of Advanced Study, SIAS on 3<sup>rd</sup> and 4<sup>th</sup> June 2020.
- Discover yourself – Three day workshop organized by SAFI Institute of Advanced Study, Vazhayoor on 21<sup>st</sup>, 22<sup>nd</sup> and 23<sup>rd</sup> November 2014.

## **AWARDS AND ACHIEVEMENTS**

- **3<sup>rd</sup> Position in poster presentation** in the 1<sup>st</sup> International E- Conference on Microbiology: COVID 19 and Current Issues organized by Primeasia University, Dhaka, Bangladesh on 31<sup>st</sup> January 2021.
- **Best Paper Presentation award** in the Two days International Conference Proceeding in Life Science organized by International Journal of Microbial Sciences (IJMS) on 1<sup>st</sup> and 2<sup>nd</sup> March 2021.
- **Chief editor** of the book ‘Insight in to Advances in Life Sciences’ published by S K Jain and Sons, Jaipur. ISBN: 978-93-82845-41-6.
- **Course coordinator** in the ‘Learn in lockdown with AKPCTA’ program organized by All Kerala Private College Teachers Association during May 2020.
- **Organizer** of SCIENTIA’19 – Science, Research and Technology for sustainable development- KSCSTE and DST sponsored National Science day celebration organized by Department of Microbiology, Biotechnology and Food Technology, SAFI Institute of Advanced Study, Vazhayoor on 19<sup>th</sup> February 2019.
- **Organizer** of ‘Symbiosis’18’- Research In Agricultural, Environmental, Industrial And Food Microbiology: Advances And Challenges”- Two Days National Seminar Co-Sponsored By KSCSTE organized by Department of Microbiology, SAFI Institute of Advanced Study, Vazhayoor on 15<sup>th</sup> and 16<sup>th</sup> March 2018.

## **OTHER DUTIES (INTERNAL/EXTERNAL)**

### **Internal Duties**

- Convener – Internal Complaint committee from January 2021 till date.
- Convener- Women Development Cell from June 2017 till date
- Member- Anti sexual harassment cell from June 2021 till date
- SIAS Ladies hostel warden from June 2014 to August 2014.

### **External Duties**

- Additional examiner in Calicut University theory paper valuation.
- External examiner in Calicut University practical examination.