

**LINU M. SALIM**

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**EDUCATIONAL QUALIFICATIONS:**

Course	Institution	University/ Board
Ph D Microbiology	School of Biosciences, M.G. University	M.G. University, Kottayam
M.Phil Biosciences	School of Biosciences, M.G. University	M.G. University, Kottayam
M.Sc. Microbiology	J.J. College of Arts and Sciences, Pudukottai	Bharathidasan University, Thiruchirapally
B.Sc. Industrial Microbiology	M.S.M. College, Kayamkulam	Kerala University
S.S.L.C	V.V.H.S.S Thamarakulan	Kerala

**FDP PROGRAMMES ATTENDED**

- Five days FDP program conducted on Internet Of Things (IoT) Organised by AICTE Training and Learning Academy at SOEUT, KUFOS from 23-09-2019 to 27-09-2019.
- Five days online FDP on ‘Recent Trends and Developments in Food Technology’ organized by Saintgits college of engineering in association with AFSTI, Cochin chapter during 10<sup>th</sup> to 14<sup>th</sup> August 2020.
- One day online FDP on Enterprise Risk Management delivered by IRM India on 19-12-2020
- Five days online FDP on “Inoculating Universal human values in Technical Education” organized by AICTE from 26 July 2021 to 30 July 2021

**TRAINING PROGRAMMES:**

- 1) Five days Job training programme at C.E.P.C. Laboratory and Technical division, Kollam.
- 2) Two weeks training at Bishop Benzigar Hospital, Kollam.

3) Training programme on HACCP (level 3) held at NIPST, MG University from 9-12-2015 to 13-12-2015.

4) Short course on Recent advances in Post harvest engineering held at CIFT, Cochin from 13-11-2019 to 22-11-2019

#### **MERITS/ SCHOLARSHIPS RECEIVED:**

- First rank B. Sc. Industrial microbiology (Vocational). Kerala university (2003)
- Merit award offered by MSM College Kayamkulam
- M.G.University M.Phil merit scholarship
- PG Merit scholarship awarded by Kerala University
- Mentor of state level selected YIP project

#### **SEMINARS AND CONFERENCES ATTENDED**

- 18<sup>th</sup> Swadeshi Science Congress, 5-7 November, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram.
- 21<sup>st</sup> Kerala Science Congress, held at Kollam on 2009, January 28<sup>th</sup> to 31<sup>st</sup>.
- National seminar on current scenario in molecular biology, held at St. Peter's college Kolenchery on 2009, July 8<sup>th</sup> & 9<sup>th</sup>.
- 19<sup>th</sup> Swadeshi Science Congress, Kerala agricultural university, Mannuthi, Dec 10-12,2009
- 22<sup>nd</sup> Kerala Science Congress,KFRI Peechi,28-31<sup>st</sup> January 2010
- Indian Science Congress 2010 held at RGCB, Thiruvananthapuram
- 24<sup>th</sup> Kerala Science Congress, Rubber Research Institute,29-31<sup>st</sup> January 2012
- 25<sup>th</sup> Kerala Science Congress held at Technopark, Thiruvananthapuram from 29<sup>th</sup> January to 1<sup>st</sup> February 2013.
- *Phytophthora* 2011, International Workshop, Seminar and Exhibition on Phytophthora diseases of plantation crops and their management, 2011.
- National seminar on Biodiversity conservation and farming systems for wetland ecology, RARS, Kumarakom, 22-23 February 2017.
- National seminar series to celebrate birth bicentenary of Charles Darwin, SBS, MG University, 7<sup>th</sup> August 2009.
- National seminar on Approaches to safety and quality in food processing held on 29<sup>th</sup> November 2019 at St. Teresa's College, Ernakulam

#### **WORKSHOP ATTENDED**

- State level workshop on Molecular Phylogenetics in Microbiology, 26<sup>th</sup> to 28<sup>th</sup> September 2012.
- Participated in five day Entrepreneurship Development Program on 'Recent trends, challenges and opportunities in innovations and start ups' organized by BIIC, MG University, Kottayam from May 03-07, 2021
- Participated in technical session entitled "The making of India's Pharmaceutical Industry and Implications in Africa" held on August 3 to 13, 2021 organized by St. Pius X College, Rajapuram.

## **PUBLICATIONS:**

- Linu M. Salim, Stephen Joseph and M.S. Jisha. Response of cowpea [*Vigna unguiculata* (L.) Walp.] to "Phosphate Solubilizing Bacteria isolated from Rhizosphere". *Asian Journal of Biosciences*. 2008.3(1): 95-98.
- M.S. Linu, J. Stephen and M.S. Jisha. "Phosphate solubilizing *Gluconacetobacter* sp., *Burkholderia* sp. and their potential interaction with Cowpea (*Vigna unguiculata* (L.) Walp)". *International Journal of Agricultural Research*. 2009.4(2).79-87. DOI: [10.3923/ijar.2009.79.87](https://doi.org/10.3923/ijar.2009.79.87)
- Linu M. Salim and M.S. Jisha. Effect of biocontrol agents against *Colletotrichum capsici* causing anthracnose of chilli (*Capsicum annum* L.). *International Journal of Biology, pharmacy and Allied sciences*, 2013, 2(12): 2218-2223.
- Linu M. Salim and M.S. Jisha. In vitro control of *Colletotrichum capsici* induced chilli anthracnose by fungicides and biocontrol agents, *International journal of applied and pure science and agriculture*. 2017, 3(5).
- Mineral phosphate solubilization by indigenous *Pseudomonas aeruginosa* isolates from chilli (*Capsicum annum* L) rhizosphere. Linu M.S., Aju K. Asok and Jisha M.S. *Journal of tropical agriculture*. 2018. 134-144.
- Linu M Salim, Sreekumar J, and Jisha M S. "Plant growth promoting traits of indigenous *Pseudomonas aeruginosa* isolates from chilli (*Capsicum annum* L) rhizosphere". *Communications in Soil science and plant analysis*. 2019. 50(4)
- Linu M Salim, Sreekumar J, and Jisha M S. Induction of systemic resistance in chilli (*Capsicum annum* L.) by autochthonous *Pseudomonas aeruginosa* against anthracnose pathogen *Colletotrichum capsici* *Journal of tropical agriculture* 2018. 56(2):153-166.
- Linu M. Salim and M.S. Jisha. Response of cowpea [*Vigna unguiculata* (L.) Walp.] to phosphate solubilizing bacteria isolated from rhizosphere. *Proceedings of 19<sup>th</sup> Swadeshi science congress* pp.31.

- Linu M. Salim and M.S. Jisha. Antifungal activity of phosphate solubilizing bacteria isolated from rhizosphere. Proceedings of 22<sup>nd</sup> Kerala science congress pp.831-832.

- Linu M. Salim and M.S. Jisha. Study of antifungal activity of phosphate solubilizing bacteria isolated from rhizosphere soil. Proceedings of 24<sup>th</sup> Kerala science congress pp.23-24.

-Growth enhancement of chilli (*Capsicum annuum* L.) with phosphate solubilizing *Pseudomonas* sp. isolated from chilli rhizosphere. Proceedings of National seminar on Biodiversity conservation and farming systems for wetland ecology, pp. 275-276.

### **PAPER PRESENTATION:**

-Study of antifungal activity of phosphate solubilizing bacteria isolated from rhizosphere soil. 24<sup>th</sup> Kerala Science Congress, Rubber Research Institute, 29-31<sup>st</sup> January 2012

### **POSTER PRESENTATION:**

Growth enhancement of chilli (*Capsicum annuum* L.) with phosphate solubilizing *Pseudomonas* sp. isolated from chilli rhizosphere. National seminar on Biodiversity conservation and farming systems for wetland ecology, RARS, Kumarakom, 22-23 February 2017.

### **BOOK CHAPTER**

Book chapter on biofertilizers in ICAR published Recent advances in agricultural sciences

### **WORK EXPERIENCE:**

-8 months work experience as project assistant at School of Biosciences, M.G.University, Kottayam from August 2009 to March 2010

Topic-Molecular characterization of phosphate solubilizing bacteria isolated from rhizosphere soil of Kerala.

-Senior research fellow at Regional agricultural research station, Kumarakom on Ecorestoration project from 15-10-2015 to 31-03-2018.

-Guest Lecturer at Dept of Biotechnology, SN College Kumarakom from 01-06-2018 to 30-03-2019

-Assistant professor (contract) at Faculty of Fisheries Engineering, Kufos from 24-06-2019 to 28-06-22

Guest faculty at Faculty of Fisheries Engineering, Kufos from 29-06-2022 to till date

### **WEBINARS ATTENDED**

1. Webinar on “Current and sustainable trends in Food Biotechnology” on 9.6.2020 conducted by Department of Biotechnology, St. Peters College of Engineering and Technology, Chennai.
2. International webinar on “ How molecular evolution influences structure of protein” on 30.5.2020 conducted by SAFI Institute of advanced studies, Malappuram.

3. International web conference “BIOINVENTIYON 20-Advances in biosciences jointly organized by NIPST and SAFI Institute on 5<sup>th</sup> and 6<sup>th</sup> November 2020
4. Webinar on “Employability Post Covid era :Expectations of Industry vs education systems preparedness, July 11,2020. ASSOCHAM INDIA Participated in the online webinar organized on World Food Safety Day by AFSTI, Cochin chapter in association with KUFOS on June 8, 2021
5. Webinar on FTIR- Principles and Applications held on 24/07/2021 jointly organized by NIPST, MG University, Kottayam, St. Joseph’s college, Thrissur, University of Calicut, Malappuram
6. Webinar on Environment Friendly Health care Facilities Past, Present and Future organized by ASSOCHAM GEM Green Building Council on July 30, 2021
7. Webinar on Chromatography based Techniques held on 31/07/2021 jointly organized by NIPST, MG University, Kottayam, St. Joseph’s college, Thrissur, University of Calicut, Malappuram
8. Webinar on Career Oppurtunities and New Avenues in Food and Nutrition organized by Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore on July 26, 2021.
9. National Online Conference on Implementing Strategies to Achieve Food Security and Food Sustainable Partnership: Progress and Challenges organized by College of Food and Dairy Technology, Tamilnadu on July 29-30, 2021
10. Webinar on Spectroscopic Analytical Techniques held on 17/07/2021 jointly organized by NIPST, MG University, Kottayam, St. Joseph’s college, Thrissur, University of Calicut, Malappuram
11. International webinar on Food Safety Standards and Hazard Issues organized by MES College Ponnani on July 04-05, 2021
12. Webinar on Post Covid Well being Risks and Challenges organized by SBS, MG University and DST- PURSE on June 10-11, 2021
13. Webinar on “ Investment trends during COVID 19 Pandemic ‘ held on September 18, 2021 organized by ISTD Indore Chapter in association with Shri Vaishnav Vidyapeeth, Indore
14. Participated in National nutrition week celebrations 2021 lecture series cum quiz competition from 1 st to 7 th September 2021 at Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
15. Webinar on GC-MS Understanding the technicalities held on 07/08/2021 jointly organized by NIPST, MG University, Kottayam, St. Joseph’s college, Thrissur, University of Calicut, Malappuram
16. Webinar on Introduction to liquid chromatography held on 14/08/2021 jointly organized by NIPST, MG University, Kottayam, St. Joseph’s college, Thrissur, University of Calicut, Malappuram
17. Webinar on biofortification: A path to Sustainable nutrition on October 01, 2021 organized by ASSOCHAM, NewDelhi

### **Currently pursuing courses**

1. Volunteer of AICTE incorporating Universal Human Values on Education, Kerala sector
2. Doing NPTEL online course on “ Fundamentals of Food Process Engineering”

### **Projects Guided**

1. Development and quality analysis of Instant *Spirulina* corn soup
2. Design and development of arrowroot powder production equipment

3. Milling studies of pulses and performance evaluation of two milling machines
4. Smart Vegetable Powder Machine
5. Edible packaging material
6. Application of 3D printing for customized food
7. Mechanization and study of IR assisted electric dryer for fruit drying
8. Universal pepper thresher
9. Apple grading sensor