

## Year wise publications of each faculty

2021

### Dr. MS Latha

1. V. Vijeesh, Vysakh A, Ninan Jisha, MS Latha. Malic acid attenuates potassium oxonate induced gouty inflammation in Wistar rat. *Biointerface Research in Applied Chemistry*. (2021). 12 (2),1682 – 1691.
2. V. Vijeesh, Ninan Jisha, Vysakh A, MS Latha. Interaction of eugenol with xanthine oxidase: multi spectroscopic and in silico modelling approach. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. 258 (2021) 119843. **Impact factor: 4.098.**
3. Ninan Jisha, A. Vysakh, V. Vijeesh, P.S. Anand, M.S. Latha. Methanolic extract of *Muntingia calabura* L. mitigates 1,2-Dimethyl hydrazine induced colon carcinogenesis in Wistar rats. *Nutrition and Cancer*.2020. (Article in press) **Impact factor: 2.900.**
4. Ninan Jisha, Vysakh A, V. Vijeesh, MS Latha. Ethyl acetate fraction of *Muntingia calabura* L. exerts anti-colorectal cancer potential via regulating apoptotic and inflammatory pathways. *Journal of Ethnopharmacology*. 2020. <https://doi.org/10.1016/j.jep.2020.113064>. **Impact factor: 4.360.**
5. Vysakh A, Sebastian Jose Midhun, Ninan Jisha, Kuriakose Jayesh, V. Vijeesh, Mathew Jyothis, MS Latha. *Rotula aquatica* Lour. inhibits growth and biofilm formation of clinically isolated uropathogenic *Escherichia coli*. *Asian Pacific Journal of Tropical Biomedicine*. 2020; 10(12): 547-554. **Impact factor: 1.545.**
6. Vysakh A, Kuriakose Jayesh, Lal Raisa Helen, Mathew Jyothis, MS Latha. Acute oral toxicity and anti-inflammatory activity of methanolic extract of *Rotula aquatica* Lour. roots in Wistar rats. *Journal of Ayurveda and integrative Medicine*. (2020) 11;(1):45-52.
7. D. Suma, MS Latha. Antiproliferative effect of the root bark of *Gardenia gummifera* L. f on HepG2 cell lines. *International Journal of Pharmaceutical Sciences and Drug Research*.2021,13(4),361-370. DOI: 10.25004/IJPSDR.2021.13040.

### Dr. Jytohis Mathew

8. Ashitha. A, Radhakrishnan. EK, Jyothis Mathew (2020) Characterization of biosurfactant produced by the endophyte *Burkholderia* sp. WYAT7 and evaluation of its antibacterial and antibiofilm potentials. *J Biotechnol*. <https://doi.org/10.1016/j.jbiotec.2020.03.005> **Impact factor -3.307**

9. Soumya Das, Aswani R, Midhun Sebastian Jose, Radhakrishnan EK, Jyothis Mathew (2020) Advantage of zinc oxide nanoparticles over silver nanoparticles for the management of *Aeromonas veronii* infection in *Xiphophorus hellerii*. *Microb pathog* <https://doi.org/10.1016/j.micpath.2020.104348> **Impact factor -3.738**
10. Soumya Das, Aswani Ravi, Midhun Sebastian Jose, Sebastian Korattiparambil Sebastian, Radhakrishnan Edayileveetil Krishnankutty, Jyothis Mathew (2021) Disease inductive potential of *Aeromonas veronii* XhG1.2 isolated from *Xiphophorus hellerii* in selected ornamental fish. *Aquaculture research* 52 (11): 5891-5897. <https://doi.org/10.1111/are.15399>. **Impact factor -2.08**
11. Soumya Das, S. Sreejith, J.S. Midhun, Jilna Babu, Celen Francis, R. Aswani, K.S. Sebastain, E.K. Radhakrishnan, Jyothis Mathew (2021) Genome sequencing and annotation of multi-virulent *Aeromonas veronii* XhG1.2 isolated from diseased *Xiphophorus hellerii*. *Genomics* 113(1Pt2):991-998. doi: 10.1016/j.ygeno.2020.10.034. **Impact factor -5.736**
12. Anuthara R, Sebastian Jose Midhun, Jyothis Mathew (2021) An in vitro and in silico study of anti-dermatophytic activity of gossypol from fruits of *Thespesia populnea* (L.) Sol. ex Correa *Asian Pacific Journal of Tropical Biomedicine* 2021; 11(12): 543-552 doi: 10.4103/2221-1691.331270 **Impact Factor: 1.55**
13. Sunil MA, Sunitha VS, Santhakumaran P, Mohan M C., Jose M. S., Radhakrishnan EK, Mathew J (2021) Protective effect of (+)-catechin against lipopolysaccharide-induced inflammatory response in RAW 264.7 cells through downregulation of NF- $\kappa$ B and p38 MAPK. *Inflammopharmacology* 29(4):1139-1155. doi: 10.1007/s10787-021-00827-6.

**Dr. Linu Mathew**

14. Maya Rajan, Vinaya Chandran, and Linu Mathew (2021): Influence of methyl jasmonate and salicylic acid on Rhamnetin production in adventitious root cultures of *Baccharoides anthelmintica* (L.) Moench, *Natural Product Research*, DOI: 10.1080/14786419.2021.1961251 **Impact Factor 2. 861**

**Dr. Radhakrishnan E.K**

15. Soumya S, Sreejith S, Shibil Shad, Anusha P, Swathy B, Renikrishna R, Saranya S, Jishma P, Radhakrishnan EK and Remakanthan A (2020) Combined effect of *Pseudomonas* spp. consortium and fertilizer with micronutrients on enhanced yield of *Amaranthus tricolor* (L.). *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* 90: 1083–1092 <https://doi.org/10.1007/s40011-020-01179-x>

16. Aswathy Jayakumar, Pooja Padmakumar and Radhakrishnan EK (2020) Drought tolerant bacterial endophytes with potential plant probiotic effects from *Ananas comosus*. *Biologia* <https://doi.org/10.2478/s11756-020-00483-1> **Impact Factor-1.350**
17. Aswani R., Jasim, B., Arun Vishnu R., Antony L., Remakanthan A., Aravindakumar C. T., Radhakrishnan EK (2020) Nanoelicitor based enhancement of camptothecin production in fungi isolated from *Ophiorrhiza mungos*. *Biotechnology Progress* 36(6): e3039. <https://doi.org/10.1002/btpr.3039> **Impact Factor-2.681**
18. Aswathy Jayakumar, Arathy Krishna, Indu C Nair and Radhakrishnan EK (2020) Drought-tolerant and plant growth-promoting endophytic *Staphylococcus* sp. having synergistic effect with silicate supplementation. *Arch Microbiol* <https://doi.org/10.1007/s00203-020-01911-1>. **Impact Factor- 2.552**
19. Jishma, P., Radhakrishnan, E.K. (2020) Modulation of agriculturally useful rhamnolipid profile of *Pseudomonas* sp. K6 due to the supplementation with chitosan and gold nanoparticles. *World J Microbiol Biotechnol* 36(10): 146. <https://doi.org/10.1007/s11274-020-02920-4>. **Impact Factor-3.312**
20. Jishma Panichikkal and Radhakrishnan Edayileveetil Krishnankutty (2020) Rhizobacterial biofilm and plant growth promoting trait enhancement by organic acids and sugars. *Biofouling* 36 (8): 990-999. <https://doi.org/10.1080/08927014.2020.1832219>. **Impact Factor-3.20**
21. Aswani Ravi, Vipina Vinod Thazhe Nandayipurath, Sukanya Rajan, Simi Asma Salim, Nejumal Kannankeril Khalid, Charuvila T. Aravindakumar, Radhakrishnan Edayileveetil Krishnankutty (2020) Effect of zinc oxide nanoparticle supplementation on the enhanced production of surfactin and iturin lipopeptides of endophytic *Bacillus* sp. Fc11 and its ameliorated antifungal activity. *Pest management science* 77: <https://doi.org/10.1002/ps.6118> **Impact Factor-4.845**
22. Sreejith S, Shamna Shajahan, Prathiush P R, Anjana V M, Arathy Viswanathan, Vishnu Chandran, Ajith Kumar G S, Jayachandran R, Jyothis Mathew and Radhakrishnan Edayileveetil Krishnankutty (2020) Healthy broilers disseminate antibiotic resistance in response to tetracycline input in feed concentrates. *Microb Pathog* 149: 104562 <https://doi.org/10.1016/j.micpath.2020.104562> **Impact Factor-3.738**
23. Aswani Ravi, Mary Theresa, Vipina Vinod Thazhe Nandayipurath, Sukanya Rajan, Nejumal Kannankeril Khalid, Aravindakumar Charuvilaputhenvedu Thankappanpilla<sup>i23</sup>, Radhakrishnan Edayileveetil Krishnankutty (2021) Plant beneficial features and application of *Paraburkholderia* sp. NhPBG1 isolated from pitcher of *Nepenthes hamblack*.

*Probiotics Antimicrob Proteins* 13(1):32-39. <https://doi.org/10.1007/s12602-020-09665-4>

**Impact Factor-4.60**

24. Aswani Ravi, Sukanya Rajan, Nejumal Kannankeril Khalid, Midhun Sebastian Jose, Charuvila T. Aravindakumar, Radhakrishnan Edayileveetil Krishnankutty (2021) Impact of supplements on enhanced activity of *Bacillus amyloliquefaciens* BmB1 against *Pythium aphanidermatum* through lipopeptide modulation. *Probiotics and Antimicrob Proteins*13(2):367-374. doi: 10.1007/s12602-020-09707-x **Impact Factor-4.60**
25. Aswathy jayakumar, Indu C Nair and Radhakrishnan EK (2021) Environmental adaptations of an extremely plant beneficial *Bacillus subtilis* Dcl1 identified through the genomic and metabolomic analysis. *Microb Ecol* 81: 687–702. <https://doi.org/10.1007/s00248-020-01605-7> **Impact Factor-4.552**
26. Jishma P, Gopika Prathap, Remakanthan A and Radhakrishnan E K (2021) Evaluation of plant probiotic performance of *Pseudomonas* sp. encapsulated in alginate supplemented with salicylic acid and zinc oxide nanoparticles. *Int J Biol Macromol.* 166:138-143. <https://doi.org/10.1016/j.ijbiomac.2020.10.110> **Impact Factor-6.953**
27. Aswathy Jayakumar, Sabarish Radoor, Jasila Karayil, Suchart Siengchin, Jyotishkumar Parameswaranpillai and Radhakrishnan E.K (2021) Lipopeptide and zinc oxide nanoparticles blended polyvinyl alcohol-based nanocomposite films as antimicrobial coating for biomedical applications. *Process Biochemistry* 102:220-228 <https://doi.org/10.1016/j.procbio.2020.12.010>. **Impact Factor-3.757**
28. Snigdha and Radhakrishnan E.K (2021) Laponite® clay/poly(ethylene oxide) gel beads for delivery of plant growth-promoting rhizobacteria. *Bulletin of Materials Science* 44: 107. doi:10.1007/s12034-021-02383-9. **Impact Factor-1.783**
29. Jishma P, Neethu Puthiyattil, Aswani R, Remakanthan A, and Radhakrishnan EK (2021) Application of encapsulated *Bacillus licheniformis* supplemented with chitosan nanoparticles and rice starch for the control of *Sclerotium rolfii* in *Capsicum annuum* (L.) seedlings. *Current microb* 78(3):911-919. doi: 10.1007/s00284-021-02361-8. **Impact Factor-2.188**
30. Aiswarya Giriya, Mallika Vijayanathan, Sweda Sreekumar, Jasim Basheer, Tara G Menon, E V Soniya Radhakrishnan EK (2021) Harnessing the natural pool of polyketide and non-ribosomal peptide family: A route map towards novel drug development. *Curr Mol Pharmacol.* doi: 10.2174/1874467214666210319145816.
31. Silju Juby, Divya Choikutty, Nayana A R, Jayachandran K, and Radhakrishnan E K (2021) Quinalphos tolerant endophytic *Bacillus* sp. Fcl1 and its toxicity-alleviating effect in *Vigna*

*unguiculata*. *Curr microb* 78(3):904-910. doi: 10.1007/s00284-020-02317-4. **Impact Factor-2.188**

32. Snigdha S., Jishma P., Nandakumar K., Sylas V. P., Thomas S., Radhakrishnan EK (2021) Laponite® nanoclay gel based microenvironment for plant probiotic rhizobacterial delivery. *Rhizosphere* 18: 100346. <https://doi.org/10.1016/j.rhisph.2021.100346> **Impact Factor-3.129**
33. A Jose, AS Saranya, C Chacko, DM Jacob and Radhakrishnan EK (2021) Activity of clove oil and chitosan nanoparticles incorporated PVA nanocomposite against *Pythium aphanidermatum*. *Appl Biochem Biotechnol* <https://doi.org/10.1007/s12010-021-03709-3s> **Impact Factor-2.926**
34. Jishma Panichikkal, Ashitha Jose, Sreejith Sreekumaran, Anju Kanjirakandi Ashokan, Cimmiya Susan Baby, Radhakrishnan Edayileveetil Krishnankutty (2021) Biofilm and biocontrol modulation of *Paenibacillus* sp. CCB36 by supplementation with zinc oxide nanoparticles and chitosan nanoparticles. *Appl Biochem Biotechnol* doi: 10.1007/s12010-021-03710-w. **Impact Factor-2.926**
35. Nayana Aluparambil Radhakrishnan, Aswani Ravi, Bicky Jerin Joseph, Ashitha Jose, Jithesh O, Radhakrishnan Edayileveetil Krishnankutty (2021) Phenazine 1-carboxylic acid producing seed harbored endophytic bacteria from cultivated rice variety of kerala and its broad range antagonism to diverse plant pathogens. *Probiotics Antimicrob Proteins*. doi: 10.1007/s12602-021-09844-x. **Impact Factor-4.60**
36. Raisa Kabeer, Sylas V. P., Praveen Kumar C. S., Thomas A. P., Shanthiprabha V., Radhakrishnan E. K. & Baiju K. R. (2021) Role of heavy metal tolerant rhizosphere bacteria in the phytoremediation of Cu and Pb using *Eichhornia crassipes* (Mart.) Solms. *International journal of phytoremediation*. <https://doi.org/10.1080/15226514.2021.2007215>

#### **Dr.Jisha.M.S**

37. Shabanamol S, MeenuThampi, Karthika S, Anith K N, Sreekumar J and Jisha M. S.(2021). Endophytic diazotrophic *Lysinibacillusphaericus* colonization in *Oryza sativa* occasioned enhanced plant growth, *Tropical Plant Biology*, (Revision submitted).
38. Divya K, MeenuThampi, Smitha Vijayan , Shabanamol S, Jisha M.S\*(2021) Chitosan Nanoparticles as a rice growth promoter: Evaluation of Biological activity. *Archives of Microbiology*.

39. Sherin Varghese, C.S. Akshaya, M.S. Jisha (2021), Unravelling the bioprospects of mycoendophytes residing in *Withaniasomnifera* for productive pharmaceutical applications, *Biocatalysis and Agricultural Biotechnology* 37 (2021) 102172
40. Edna Mary Varghese, Shalu Sivadas, Chippy Suresh, Devikrishna U., Vidhya K. Akhil K. P. & Jisha M. S (2021). Biodegradation of Chlorpyrifos by an optimized Bacillus consortium isolated from pesticide-contaminated soils of Kerala, India. *International Journal of Pest Management* TTPM. <https://doi.org/10.1080/09670874.2021.1973690>
41. Edna Mary Varghese., Aswani P. & Jisha M. S. Strategies in Microbial Degradation Enhancement of Chlorpyrifos – A Review based on the Primary Approaches in Soil Bioremediation. *Biocatalysis and Biotransformation* (IF 1.863)
42. Shabanamol S, MeenuThampi, ,Sajana P , Sherin Varghese, Karthika S , Tijith K George and **Jisha M S\*** Characterization of the major antifungal extrolite from rice endophyte *Lysinibacillus sphaericus* against *Rhizoctonia solani*, *Archives of Microbiology*. (IF 2.552)

## 2020

### **Dr. M.S. Latha**

1. Ninan Jisha, A. Vysakh, V. Vijeesh, P.S. Anand, M.S. Latha. Methanolic extract of *Muntingia calabura* L. mitigates 1,2-Dimethyl hydrazine induced colon carcinogenesis in Wistar rats. *Nutrition and Cancer*. 2020. <https://doi.org/10.1080/01635581.2020.1823438>

**Impact factor: 2.363**

2. Ninan Jisha, Vysakh A, V. Vijeesh, MS Latha. Ethyl acetate fraction of *Muntingia calabura* L. exerts anti-colorectal cancer potential via regulating apoptotic and inflammatory pathways. *Journal of Ethnopharmacology*. 2020. <https://doi.org/10.1016/j.jep.2020.113064>. **Impact factor: 3.690**

3. Vysakh A, Sebastian Jose Midhun, Ninan Jisha, Kuriakose Jayesh, V. Vijeesh, Mathew Jyothis, MS Latha. *Rotula aquatica* Lour. inhibits growth and biofilm formation of clinically isolated uropathogenic *Escherichia coli*. *Asian Pacific Journal of Tropical Biomedicine*. 2020. (Article in press) **Impact factor: 1.903.**

### **Dr. Jyothis Mathew**

4. Das, S., Aswani, R., Midhun, S.J., Radhakrishnan, E.K. and **Mathew, J.**, 2020. Advantage of zinc oxide nanoparticles over silver nanoparticles for the management of *Aeromonas veronii* infection in *Xiphophorus hellerii*. *Microbial pathogenesis*, p.104348. **Impact factor: 2.914**

5. Ashitha, A., Radhakrishnan E.K., **Jyothis Mathew** (2020). Characterization of biosurfactant produced by the endophyte *Burkholderia sp.* WYAT7 and evaluation of its antibacterial and antibiofilm potentials, *Journal of Biotechnology*. DOI: 10.1016/j.jbiotec.2020.03.005. **Impact factor- 3.5**

6. Ashitha.A, Radhakrishnan E.K, **Jyothis Mathew**(2020). Antibacterial potential and apoptosis induced by pigments from the endophyte Burkholderia sp. WYAT7, Current Microbiology. <https://doi.org/10.1007/s00284-020-02013-3>. **Impact factor- 1.74**

7. Das, S., Aswani, R., Jasim, B., Sebastian, K. S., Radhakrishnan, E. K., & **Mathew, J.** (2020). Distribution of multi-virulence factors among Aeromonas spp. isolated from diseased Xiphophorus hellerii. Aquaculture International, 28(1), 235-248. <https://doi.org/10.1007/s10499-019-00456-5> **Impact factor 1.36**

8. Soumya Das, Aswani R, Midhun Sebastian Jose, Radhakrishnan EK, **Jyothis Mathew** .(Oct 2020) Advantage of zinc oxide nanoparticles over silver nanoparticles for the management of Aeromonas veronii infection in Xiphophorus hellerii. **Microbial pathogenesis** <https://doi.org/10.1016/j.micpath.2020.104348> **Impact factor 2.9**

### **Dr.J.G.Ray**

9. Joseph RG, L Graham, B Budel, P Jung, G J Kidron, K Latif, RA Armstrong, HA Mansour, **J G Ray**, GJP Ramos, L Consorti, V Rizzo, CH Gibson and R Schild (2020) Mars: Algae, Lichens, Fossils, Minerals, Microbial Mats and Stromatolites in Gale Crater; Journal of Astrobiology and Space Science Reviews, 3 (1); pp. 40-111

10. Chandana Chandrasekhar and **J G Ray** (2020) Plant Response to Excess of Copper in Soils: A Review; In Landi M, Shemeth SA and Fedenko VS (Eds) Metal Toxicity in Higher plants, Nova Science Publishers, New York, pp. 137-156; Book Chapter with ISBN: 978-1-53616-790-0 (e-book)

11. Prasanthkumar S, Sunil M A and **J G Ray** (2020) Nutraceutical applications of twenty-five species of rapid-growing green-microalgae as indicated by their antibacterial, antioxidant and mineral content, Algal Research, 47 (101878) <https://doi.org/10.1016/j.algal.2020.101878>: **Impact Factor 3.723**

12. Deepthi AS and **Ray J G** (2020) Algal associates and the evidence of cyanobacterial nitrogen fixation in the velamen roots of epiphytic orchids, Global Ecology and Conservation, 22; <https://doi.org/10.1016/j.gecco.2020.e00946>: **Impact Factor 2.751**

13. Deepthi AS and **Ray J G** (2020) Applications of endophytic-fungal-isolates from velamen root of wild orchids in floriculture, Brazilian Journal of Biological Sciences, 6(14) pp. 577-589; <https://doi.org/10.21472/bjbs.061409>: Internationally indexed journal

14. **Ray J G**, Santhakumaran P and Kookal S (2020) Phytoplankton communities of eutrophic freshwater bodies (Kerala, India) concerning the physicochemical water quality parameters, Journal of Environment, Development and Sustainability, <https://doi.org/10.1007/s10668-019-00579-y> **Impact Factor 1.676**

### **Dr.Keerthi,T.R.**

15. Tania Thabeeda Subhanandaraj, **Keerthi Thalakkattil Raghavan**, Rakhie Narayanan(2020) “Antibacterial and antibiofilm activity of probiotic based silver nanoparticles is a green approach in biomedical applications” Letters in Applied Nano BioScience 9( 2) 2020, 988 - 994 ISSN 2284-6808

## Dr.Jayachandran.K

16.Rakhimol K R, Sabu Thomas , Nandakumar Kalarikal **Jayachandran.K.** (2020) .Casein mediated synthesis of stabilized metal / metal oxide nanoparticles with varied surface morphology through pH alteration. *Materials Chemistry and Physics*, 246,122803.

17.P Soumya and **Jayachandran K** ( 2020).Pineapple peel extract as an effective substrate for esterase production from *Bacillus subtilis* E9.,*Current Microbiology*,77:3024-3034.<https://doi.org/10.1007/s00284-020-02073-5>.

18.Indu M Nair and **Jayachandran K** (2020).In vitro enzymatic conversion of Glibenclamide using squalene hopene cyclise from *Pseudomonas mendocina* expressed in E.coli BL 21( DE). *Molecular Biotechnology*, <https://doi.org/10.1007/s12033--020-00264-w>.

19..Indu M Nair and **Jayachandran K** (2020).4,4'diaponeurosporenic acid, the C30 carotenoid pigment in endophytic *Pseudomonas mendocina* with squalene cyclase activity. *Current Microbiology* . <https://doi.org/10.1007/s00284-020-02180-3>.

## Dr.Jisha M S

20.Shabanamol S, Meenu Thampi, , Sajana P , Sherin Varghese, Karthika S , Tijith K George and **Jisha M S\*** Characterization of the major antifungal extrolite from rice endophyte *Lysinibacillus sphaericus* against *Rhizoctonia solani*, *Archives of Microbiology*. (Accepted)

21.Tijith K George, DineepDevadasan & **Jisha, M. S.** In-vitro evaluation of the antioxidant potency of a novel endophytic *Penicillium* sp from *Withania somnifera* ,Accepted in *Research Journal of Medicinal Plants*

22.Divya, K., Thampi, M., Vijayan, S., Varghese, S., & **Jisha, M. S. (2020)**. Induction of defence response in *Oryza sativa* L. against *Rhizoctonia solani* (Kuhn) by chitosan nanoparticles. *Microbial Pathogenesis*, 104525. (Impact factor – **2.640** ) <https://doi.org/10.1016/j.micpath.2020.10452>

23.John, E. M., Varghese, E. M., & **Jisha, M. S (2020)**. Plasmid-Mediated Biodegradation of Chlorpyrifos and Analysis of Its Metabolic By-Products. *Current Microbiology*, 77(10), 3095-3103. (Impact factor – **1.610**) DOI 10.1007/s00284-020-02115-y

24.Rishad, K. S., Varghese, S., & **Jisha, M. S. (2020)**. Sequence analysis and docking performance of extracellular chitinase from *Bacillus pumilus* MCB-7, a novel mangrove isolate. *Enzyme and Microbial Technology*, 109624. (Impact factor – **3.70**)

25.Karthika, S., Varghese, S., & **Jisha, M. S. (2020)**. Exploring the efficacy of antagonistic rhizobacteria as native biocontrol agents against tomato plant diseases. *3 Biotech*, 10 (7), 1-17. (Impact factor – **2.270**).

26.Vijayan, S., Divya, K., Varghese, S., & **Jisha, M. S. (2020)**. Antifungal Efficacy of Chitosan-Stabilized Biogenic Silver Nanoparticles against Pathogenic *Candida* spp. Isolated from Human. *BioNanoScience*, 1-9. (Impact factor – **0.920**) .DOI 10.1007/s12668-020-00781-7.

27.Shabanamol S, Edna Mary Varghese, Meenu Thampi, Karthika S, Sreekumar J & **Jisha M S (2020)**: Enhancement of Growth and Yield of Rice (*Oryza sativa*) by Plant Probiotic



Endophyte, *Lysinibacillus sphaericus* under Greenhouse Conditions, Communications in Soil Science and Plant Analysis, DOI: 10.1080/00103624.2020.1751190. (Impact factor – **0.760**).

28.Dhanya, S., Varghese, S., Divya, K., Sreekumar, J., & **Jisha, M. S. (2020)**. *Pseudomonas taiwanensis* (MTCC11631) mediated induction of systemic resistance in *Anthurium andreaeanum* L against blight disease and visualisation of defence related secondary metabolites using confocal laser scanning microscopy. *Biocatalysis and Agricultural Biotechnology*, 101561. (Impact factor – **2.140**)

29.Karthika S, Midhun SJ & **Jisha MS (2020)** A potential antifungal and growth-promoting bacterium *Bacillus* sp. KTMA4 from tomato rhizosphere. *Microbial pathogenesis* 142:104049. . (Impact factor – **2.640**)

30.Aswani P., Edna Mary Varghese, Akhil K.P., **Jisha M.S.** (2020). Toxicity study of Chlorpyrifos, an organophosphate pesticide, and its bioremediation using *Pseudomonas putida*. *Pesticide Research Journal* 31(2):220-232

#### **Dr Linu mathew**

31.Maya Rajan, Vinaya Chandran, Shahena S, Anie Y and **Linu Mathew** (2020). In vitro and in silico inhibition of  $\alpha$ -amylase,  $\alpha$ -glucosidase, and aldose reductase by the Leaf and Callus extracts of *Vernonia anthelmintica* (L.) Willd. *Advances in Traditional Medicine Springer* (accepted).

32.Shahena. S, Maya Rajan, Vinaya Chandran, **Linu Mathew**, Allelopathic effect of *Wedelia trilobata* L., on the germination and growth of *Cicer arietinum*, *Vigna unguiculata* and *Vigna radiata* seedlings *Journal of applied Biology and Biotechnology* ( Accepted)

33.Maya Rajan, K. S. Feba, Vinaya Chandran, S. Shahena, **Linu Mathew** Enhancement of rhamnetin production in *Vernonia anthelmintica* (L.) Willd. cell suspension cultures by eliciting with methyl jasmonate and salicylic acid *PhysiolMolBiolPlants* Impact factor 2.00

34.Rajan M, Shehena S, Chandran V, **Mathew L** Callus induction, Indirect Organogenesis and Plantlet Regeneration from different explants of *Vernonia anthelmintica* (L.) Willd. . *J Appl Biol Biotech* 2020;8(03):017–022. DOI: 10.7324/ JABB.2020.80304

#### **Dr.Anie Y**

35.V H Haritha, A George, B V Shaji, **Y Anie** . NET-associated citrullinated histones promote LDL aggregation and foam cell formation in vitro. (2020). *Exper Cell Res*. <https://doi.org/10.1016/j.yexcr.2020.112320> (**IF – 3.383**).

36.B V Shaji, S Shaji, V H Haritha, S Pramod, **Y Anie**. Calcium depletion at high glucose concentration promotes vesicle-mediated NET release in response to *Staphylococcus aureus*. *Mol Immunol*. (2020); 124: 211–217. (**IF – 3.641**).

#### **Dr. RADHAKRISHNAN E.K.**

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