

Dr. R. Mala

International and National Journal Publications

1. **Dr.R.Mala**, Ms.A.S.Ruby Celsia, Mr.Hari Prasath, Miss.Keerthana R, Miss.Gopika Shri published "Susceptibility of biofilm forming *Pseudomonas aeruginosa* and *Staphylococcus aureus* to antibiotic-adjuvants" *Malaysian Journal Of Microbiology*, Vol.16, Issue.5, pp.1-8, October-2020
2. **Dr.R.Mala**, Ms.A.S.Ruby Celsia, Mr.Karthikeyan, Miss.Keerthana R published "Chemical Composition Antioxidant and Anti-Inflammatory Activity of *figus racemosa* Fruit" *International Journal of Pharmaceutical Research*, pp.1-10, October-2020
3. **Dr.R.Mala**, Miss.Gazana, Miss.Gayathri, Mrs.Preetha Mohan, Miss.Keerthana, Mr.Hari Prasath published "Antibiotic Loaded Nano Rod Bone Cement for the Treatment of Osteomyelitis" *Recent Patents in Nanotechnology*, Vol.14, Issue.1, pp.1-20, September-2020
4. **Dr.R.Mala**, Miss.N.Maheswari, Ms.A.S.Ruby Celsia published "EFFECT OF INTEGRATED PLANT NUTRIENTS ON SOIL AND NODULE MICROBE OF *ARACHIS HYPOGEA*" *Ecology, Environment and Conservation*, Vol.25, Issue.4, pp.1784-1788, December-2019
5. Ms.Preetha Mohan , **Dr.R.Mala** published "Comparative antibacterial activity of magnetic iron oxide nanoparticles synthesized by biological and chemical methods against poultry feed pathogens" *Material Research Express*, Vol.6, Issue.11, pp.577-583, October-2019
6. Ms.A.S.Ruby Celsia, **Dr.R.Mala**, Mr.Hari Prasath published "Re-Potentialization of Lactam Antibiotic by Synergistic Combination with Biogenic Copper Oxide Nanocubes against Biofilm Forming Multidrug-Resistant Bacteria" *Molecules*, Vol.24, Issue.17, pp.1-18, August-2019
7. **Dr.R.Mala**, Mrs.Jansi rani, Mr.G.Hariprasath, Ms.A.S.Ruby Celsia published "A review on nano material based drug delivery for burn injury" *AIP conference proceedings*, Vol.2105, Issue.978-0-7354-1837-0, pp.200121-200129, May-2019
8. Ms.Preetha Mohan , **Dr.R.Mala** published "A review on the effect of ZnO nanomaterial as supplement in poultry farming" *AIP conference proceedings*, Vol.2105, Issue.978-0-7354-1837-0, pp.20030-20035, May-2019
9. **Dr.R.Mala**, Mrs.Jansi rani, Mr.G.Hariprasath, Ms.A.S.Ruby Celsia published "Nano Composite Material of Chitosan for Wound Healing: A Review" *AIP conference proceedings*, Vol.2105, Issue.978-0-7354-1837-0, pp.200131-2001310, May-2019
10. **Dr.R.Mala**, Mr.G.Hariprasad, Ms.A.S.Ruby Celsia published "Bactericidal activity of ZnO nanoparticle" *Materials todays proceedings*, Vol.21, Issue.5, pp.1-10, May-2019
11. Dr.V.S.Benitha, Dr.K.Jeyasubramanian, **Dr.R.Mala**, Dr.G.S.Hikku, Mr.Rajesh Kumar published "New sol–gel synthesis of NiO antibacterial nano-pigment and its application as healthcare coating" *Journal of Coatings Technology and Research*, Vol.16, Issue.1, pp.59-70, January-2019
12. **Dr.R.Mala**, Ms.A.S.Ruby Celsia published "Isolation and identification of burn wound superbugs by molecular technique and their susceptibility to silver nanoparticles" *IOP Conference Series: Materials Science and Engineering*, Vol.310, Issue.1, pp.1-12, March-2018
13. **Dr.R.Mala**, Ms.A.Annie Aglin, Ms.A.S.Ruby Celsia, Miss.Geerthika , Miss.Kiruthika , Miss.VazagaPriya published "Foley catheters functionalised with a synergistic combination of antibiotics and silver nanoparticles resist biofilm formation" *IET Nanobiotechnology*, Vol.11, Issue.5, pp.612-620, August-2017

14. **Dr.R.Mala**, Ms.A.S.Ruby Celsia, Miss.Mahalakshmi, Miss.Rajeswari published "Agronomic Biofortification of Amaranthus dubius with Macro Nutrients and Vitamin A" IOP CONFERENCE SERIES, Vol.225, pp.1-9, July-2017
15. **Dr.R.Mala**, Ms.A.S.Ruby Celsia, Mrs.S.Malathi Devi, Miss.S. Geerthika published "Comparison on Bactericidal and Cytotoxic Effect of Silver Nanoparticles Synthesized by Different Methods " IOP Conf. Series: Materials Science and Engineering, Vol.225, pp.1-11, July-2017
16. **Dr.R.Mala**, Ms.A.S.Ruby Celsia, Miss. Sundaram VB, Miss.Rajan RBSS, Miss.Gurusamy UM published "Evaluation of Nano Structured Slow Release Fertilizer on the Soil Fertility, Yield and Nutritional Profile of Vigna radiata." Recent Patents on Nanotechnology, Vol.11, Issue.1, pp.50-62, January-2017
17. Mrs.Varalakshmi, Miss.Anantha Suganiya, **Dr.R.Mala** published "Fabrication and Characterization of Hybrid Sponge for Healing of Infectious Burn Wound" Recent Patents on Nanotechnology,, Vol.9, pp.212-221, July-2015
18. **Dr.R.Mala**, Miss.S. Geerthika published "MICROWAVE ASSISTED FUNCTIONALIZATION OF CENTRAL VENOUS CATHETER WITH TAMARIND FRUIT PULP EXTRACT" OFFICIAL JOURNAL OF THE PATENT OFFICE, Issue.47, pp.416-416, November-2017

International Conference Publications

1. **Dr.R.Mala**, Miss.Keerthana R published "Supersorbent hydrogel as microreservoir of water and rhizosphere microbiome" 10th International Congress of Environmental Research, , December-2019
2. Mr.N Hari Prasath, **Dr.R.Mala**, Ms.A.S.Ruby Celsia published "Bactericidal activity of Zinc oxide nanoparticles" ICMSMT 2019, Vol.2, Issue.1, , March-2019
3. **Dr.R.Mala**, Mrs.M.Jansi rani, Mr.N Hari Prasad, Ms.A.S.Ruby Celsia published "Nano Composite Material of Chitosan for wound healing" ICTMIM 2019, , March-2019
4. **Dr.R.Mala**, Mrs.D Jansi Rani, Mr.N Hari Prasath, Ms.A.S.Ruby Celsia published "A review on nano material based drug delivery for burn injury" INTERNATIONAL CONFERENCE ON TRENDS IN MATERIAL SCIENCE AND INVENTIVE MATERIALS: ICTMIM 2019, Vol.2105, Issue.1, pp.20012-, March-2019
5. Ms.A.S.Ruby Celsia, **Dr.R.Mala** published "Surface Modification of Urinary Catheter by Impregnation of Silver Nanoparticles to Prevent Swarming and Biofilm Formation by Clinical Isolates" 5th International Conference on Nanoscience and Nanotechnology, Vol.1, Issue.1, pp.1194-1194, January-2019
6. **Dr.R.Mala**, Ms.A.S.Ruby Celsia, Mr.N Hari Prasath, Mr.N.Subash published "Emergence of Extensive Drug Resistance in Burn Wound Pathogens and their Susceptibility to Zinc Oxide Quantum Dots" 5th International Conference on Nanoscience and Nanotechnology (ICONN 2019), Vol.1, Issue.1, pp.1194-1194, January-2019
7. **Dr.R.Mala**, Mr.N.HariPrasath, Miss.I.Gazana, Miss.BL.Ghayathri, Ms.A.S.Ruby Celsia published "ANTIBIOTIC LOADED NANO HYDROXYAPATITE BEADS AS BONE CEMENT FOR THE TREATMENT OF OSTEOMYELITIS" International Conference On Nanoscience and Nanotechnology, Vol.1, Issue.1, pp.718-718, January-2019

8. **Dr.R.Mala**, Miss.Z.Afroze Subaitha, Miss.S.Jeyapriya published "IRON OXIDE NANOPARTICLE AS SEED PRIMING SOLUTION TO BOOST GERMINATION AND FORTIFY IRON IN CLUSTER BEAN" International Conference on Nanoscience and Nanotechnology, Vol.1, Issue.1, pp.748-748, January-2019
9. **Dr.R.Mala**, Mr.N HARI PRASATH, Ms.A.S.Ruby Celsia published "Size Dependent Bactericidal Activity Of Zinc Oxide Nanoparticles" International Conference on Nanoscience and Nanotechnology ICONN-2019, , January-2019
10. **Dr.R.Mala**, Miss.P.Akila Pandeewari, Miss.S.Lavanya, Mr.N.Hari Prasath published "NANOENCAPSULATION OF BIOPESTICIDES FOR THE CONTROL OF SHOOT AND FRUIT BORER IN BRINJAL" International Conference on Nanoscience and Nanotechnology, Vol.1, Issue.1, pp.718-718, January-2019
11. Ms.A.S.Ruby Celsia, **Dr.R.Mala**, Mr.N.Hari Prasad published "Prevalance of lactum resistant pathogens in burn wound and their susceptibility to Zinc oride nanoparticles" 10th Bengaluru India Nano 2018,, Vol.1, Issue.1, pp.108-108, December-2018
12. Ms.Preetha Mohan , **Dr.R.Mala** published "Bacterial activity of zinc oxide nanoparticles against poultry feed infectious organism" International Conference on Nano Science & Engineering Applications - 2018 ICONSEA-2018 , , October-2018
13. Ms.Preetha Mohan , **Dr.R.Mala** published "Comparative antibacterial acitivity of magnetic iron oxide nanoparticles synthesized by biological and chemical methods against poultry feed pathogens" International Conference on Nanoscience and Nanotechnology (ICONN 2019), , September-2018
14. **Dr.R.Mala**, Ms.A.S.Ruby Celsia, Mrs.Varalakshmi published "Multi functional nano fibrous mat for diabetic wound healing" BioMET 2018, , July-2018
15. Ms.A.S.Ruby Celsia, **Dr.R.Mala** published "Inhibition of Swarming Mobility and Biofilm Formation of Clinical Isolates by Phytochemicals and Silver Nanoparticles" BIOPROCESSING INDIA 2017 (BPI 2017) , pp.142-142, December-2017
16. **Dr.R.Mala**, Ms.A.S.Ruby Celsia, Mr.N SUBASH published "Burn Wound Healing activity of Composite Nano Fiber Loaded with Curcumin and Mimosa pudica and Lawsonia inermis Extract" International Symposium on NANOMATERIALS FOR CLEAN ENERGY AND HEALTH APPLICATIONS (INSCHA 2017), pp.84-, December-2017
17. Ms.A.S.Ruby Celsia, Mr.N Subash, **Dr.R.Mala** published "Toxic Effect of Silver Nanomaterial on Adult Zebrafish" International Symposium on NANOMATERIALS FOR CLEAN ENERGY AND HEALTH APPLICATIONS (INSCHA 2017), pp.96-97, December-2017
18. **Dr.R.Mala** published "Susceptibility of burn wound pathogens to nano dressings" International Conference And Expo On Biotechnology And Healthcare, pp.43-43, October-2017
19. **Dr.R.Mala**, Ms.A.S.Ruby Celsia published "Isolation and identification of Burn wound superbugs by molecular technique and their susceptibility to silver nanoparticles" International Conference on Advances in Materials & Manufacture Applications (IConAMMA 2017) , pp.603-603, August-2017

20. **Dr.R.Mala**, Ms.A.S.Ruby Celsia published "Fabrication, Characterization and Wound healing activity of Chitosan Gelatin composites nanofiber loaded with Curcumin and phytochemicals" Fourth International Conference on Nanostructure materials and Nanocomposites (ICNM 2017), , February-2017

21. Miss.Vaishnavi S, Miss.Shurekha M, Mrs.Soundaryaa N, Ms.A.S.Ruby Celsia, **Dr.R.Mala** published "Influence of Spirulina mediated Zinc oxide nanoparticles on germination , growth and photosynthetic pigment of Coriandrum sativum" Fourth International conference on Nano structured Materials and Nanocomposites ((ICNM 2017), , February-2017

22. **Dr.R.Mala**, Ms.A.S.Ruby Celsia published "Effect of Ananas cosmosus fruit on crystalline biofilm formation in foley catheter" 104th Indian Science Congress, pp.125-, January-2017

23. Ms.A.S.Ruby Celsia, **Dr.R.Mala** published "Influence of Silver nanoparticles on swarming mobilityof Proteus mirabilis" 104th Indian Science Congress, , January-2017

24. Ms.A.S.Ruby Celsia, Miss.S Geerthika, **Dr.R.Mala**, Mrs.S.Malathi Devi published "Comparison on bactericidal and cytotoxic effect of silver nanoparticles synthesized by different method" International Conference on Advanced material technologies (ICAMT 2016), Vol.1, Issue.2, pp.276-503, December-2016

25. Ms.A.S.Ruby Celsia, Miss.Mahalakshmi R, Miss.Rajeswari S, **Dr.R.Mala** published "Agronomic biofortification of Amaranthus dubius with macronutrients and Vitamin A" International conference on advanced material technologies(ICAMT 2016), pp.268-275, December-2016

26. Dr.KP Srinivasakumar , **Dr.R.Mala**, Ms.A.Annie Aglin, Miss. S Kiruthika, Miss. C VazagaPriya published "Invivo efficacy and durability of anti-infective foley catheters functionalized with silver nano particle and antibiotics" Experimental Biology 2016, , April-2016

27. Ms.A.S.Ruby Celsia, Miss.S Geerthika, **Dr.R.Mala** published "Antibiofilm property of Zingiber officinale and Piper nigrum" 103rd Indian Science Congress, pp.174-175, January-2016

28. Miss.S Vidhya Bharathi, Ms.A.S.Ruby Celsia, Miss.S.Raja Blessina, Miss.Uma Maheswari G, **Dr.R.Mala** published "Influence of Slow release nanofertilizer on Germination and Biochemical characteristics of Vigna radiata" International Conference on nanomaterials and Nanotechnology (Nano 2015), pp.286-286, December-2015

29. Mr.Siva Prasad, **Dr.R.Mala** published "Biogenic Synthesis of Silver nanoparticles and toxicity against Vero cell lines" Converging Biotechnological Innovations for Health, Food and Environmental Welfare, , December-2015

30. Miss.P Anusha, Miss.S.Nivetha, **Dr.R.Mala** published "Response of Vigna radiata to priming with zinc oxide nanomaterials" International Conference on Nanomaterials and Nanotechnology (Nano 2015), pp.276-, December-2015

31. Ms.A.Annie Aglin, Miss.Kiruthika N, Miss.Vazagapriya C, **Dr.R.Mala** published "Isolation, Characterization and Susceptibility of Catheter Associated Urinary Tract Organisms to Silver Nano Particls" Nanomaterials and Nanotechnology (NANO-2015), pp.286-287, December-2015

32. **Dr.R.Mala** published "Antioxidant activity of orthopaedic implant functionalized with zinc oxide nanoparticles" International Conference on Nano structured polymeric materials and polymer , pp.27-, November-2015

33. Ms.A.S.Ruby Celsia, **Dr.R.Mala** published "Susceptibility of Catheter associated uropathogens to silver and copper nanocomposite" International conference on nanostructured polymeric materials and polymer nanocomposites ICNPM 2015, pp.112-, November-2015

34. Miss.P.Kasthuri, **Dr.R.Mala** published "Functionalization of Brick surface to resist microbial adhesion by photocatalytic nanopaints" Bangalore Bio 2015, pp.7-, February-2015

35. Miss.S Geerthika, **Dr.R.Mala** published "Antibiofilm property of Piper nigrum and Zingiber officinale" Bangalore Bio 2015, pp.11-, February-2015

36. Miss.S . Niveditha, **Dr.R.Mala** published "Synthesis,Characterization and Antioxidantactivity of Zinc oxide nanomaterials" BANGLORE BIO 2015, pp.8-, February-2015

37. Miss.S.Geerthika, **Dr.R.Mala** published "Antibiofilm propertyof Allium sativum and citrus lemon" 2nd international conference on bioenergy,environment and sustainable technologies, pp.149-, February-2015

38. Miss.Vidhya Bharathi, Ms.A.S.Ruby Celsia, **Dr.R.Mala** published "Fabricationof Nanostructured slow release fertilizer system as a carrier of PGPR and its influence on germination of Vignata radiata" Bangalore Bio 2015, pp.6-, February-2015

39. Miss.Joyabisha, **Dr.R.Mala**, Ms.A.S.Ruby Celsia published "Formulation,Characterization and antimicrobial activity of hydrogel nanodressing" 2nd International conference on Bioenergy, Environment & Sustainable Technologies – BEST2015 , , January-2015

40. Miss.S. Vidhya Bharathi, **Dr.R.Mala** published "Influence of Integrated nutrient management with slow release fertilizer system on Vigna radiata" 2nd International conference on Bioenergy, Environment & Sustainable Technologies – BEST2015 , pp.150-, January-2015

41. Miss.P Kasthuri, **Dr.R.Mala** published "Self cleaning property of touch surfaces by dopping photocatalytic Nanomaterials" 2nd International conference on Bioenergy, Environment & Sustainable Technologies – BEST2015 , pp.402-, January-2015

National Conference Publications

1. Miss.Keerthana R, **Dr.R.Mala** published "Nanogel for agricultural productivity" Vision Nano 2020 , , February-2020

2. **Dr.R.Mala**, Ms.A.S.Ruby Celsia, Mr.N Hari Prasath published "Nano gel wound dressing" Nano India 2019, Vol.1, Issue.1, , April-2019

3. **Dr.R.Mala**, Miss.Afrose Subaitha, Miss.S.Jeyapriya published "Nano Foliar spray" Nano India,2019 , , April-2019

4. **Dr.R.Mala**, Ms.A.S.Ruby Celsia, Mr.N Hari Prasath published "Nano Spray wound healing" Nano India 2019, Vol.1, Issue.1, , April-2019
5. Ms.Preetha Mohan , **Dr.R.Mala** published "Nano nutraceutical enriched poultry feed" Nano India 2019, Vol.1, Issue.1, , April-2019
6. **Dr.R.Mala**, Ms.A.S.Ruby Celsia, Miss.Vaishnavi, Miss.Shureka, Miss.Soundarya published "Agronomic Biofortification of Amaranthus Caudatus and coriandrum sativum using nano Fertilizers to solve hidden and hunger (Bio Splendour)" PSG Nanochallenge 2017, January-2018.
7. Ms.A.S.Ruby Celsia, **Dr.R.Mala** published "Herbal Nano Crystalline Hydrogel for Healing of Infectious burn wound" Recent Trends in Clean Technology for Sustainable Environment (CTSE), , September-2017
8. Mr.N Subash, Mr. S Surya, **Dr.R.Mala** published "Cancer Detection using Gold nanoparticles: A Review" National Conference on Biological Process issues Challenges and Opportunitites NCBP 17, , September-2017
9. Ms.A.S.Ruby Celsia, **Dr.R.Mala** published "Control of Crystalline Biofilm by Nanocomposites" Conference on Microbial biofilm2016 (COMB 2016), pp.34-34, January-2016
10. Miss.S.Anandha Suganya, **Dr.R.Mala** published "Honey Based Silver nanomaterial embedded absorbent sponge to accelerate infectious burn wound healing" Students project Scheme seminar cum exhibition, pp.473-481, August-2015