

## DEPARTMENT OF BIOTECHNOLOGY

### Research Publications in peer reviewed International and National Journals

#### Dr. W.A.Manjusha

- 1) Anita Yovas, **Manjusha W.A.** , Stanely Mainzen Prince Ponnian.  $\beta$ -caryophyllene modulates B-cell lymphoma gene-2 family genes and inhibits the intrinsic pathway of apoptosis in isoproterenol-induced myocardial infarcted rats; A molecular mechanism . European Journal of Pharmacology. Elsevier. 932.2022.
- 2) Jegan S. R, **Manjusha W. A.** Screening of Antioxidant, Anticancer activity and GC-MS analysis of selected seaweeds from Kadiapattinam Coast, Kanyakumari. Journal of survey in Fisheries Sciences. 2023.10(IS): 3749-3756.
- 3) Manjusha W.A., Deepa P.K. ,Josphine J.S. and Ahil raj S. A comparative study of vermicompost using agrowastes. Asian jr. Of microbiol. Biotech. Env. Sc. Vol. 24, no. (1) : 2022 : 105-109
- 4) J.S. Josphine, **W. A. Manjusha.** Antifouling Potential Of Pseudomonas Aeuroginosa Isolated From Marine Water. Asian Jr. of Microbiol. Biotech. Env. Sc. Vol. 23, No. (4) : 2021 : 712-718
- 5) J.S. Josphine, **W. A. Manjusha**, C. Subathra. Evaluation of Antifouling Potential of Staphylococcus Sp. Isolated from Marine Sea Water. Annals of Romanian Society of cell biology. 2021 25(4) : 6650-6661
- 6) Jegan S. R, **Manjusha W. A.** Antagonistic, Antibacterial and Anticancer Activity of Marine Macroalgae-Associated Bacteria Collected from Kanyakumari coast. European Journal of Molecular & Clinical Medicine. 2020. 7(11), 166-175
- 7) Jegan S.R, **Manjusha W.A.**, Alex C.D, Joicy Abraham. Antioxidant and Anticancer Activity of GracilariaCorticata, collected from Somatheeram, Thiruvananthapuram, Kerala. *Journal of Engineering Sciences*. 2020; 11 (2). Pp. 127-135.
- 8) Deepa P.K, Subramanian, **W.A. Manjusha**, Determination of in vitro anti-inflammatory activity of marine microalgae, Nannochloropsis sp. *Indian journal of science and technology*. 2020, Vol 13(08), 871 – 882
- 9) Deepa P. K., A. Subramanian ,**W.A. Manjusha.** Evaluation of antioxidant potential and bioactive metabolites of Nannochloropsis sp. Journal of Advanced Applied Scientific Research. 2020. 2(5) :1-9

- 10) Deepa P. K., A. Subramanian, **W.A. Manjusha**. Phytochemical Screening and Evaluation of Antidiabetic Activity of the Marine Microalgae: *Nannochloropsis* Sp. *International Journal of Life science and Pharma Research*. 2020.10(4). L36-40
- 11) Jegan S.R, **Manjusha W.A** Bioactive screening and evaluation of bioactive compounds present in *Camellia sinensis*. 'International Journal of innovative research explorer'. 2020.
- 12) Jency George and **Manjusha, W.A.** Extraction and Purification of Collagen from Marine Squid *Uroteuthis Duvauceli*. *International Journal of Pharma and BioSciences*. 2020. 10(4) L 77-89.
- 13) Jency George and **Manjusha, W.A.** Characterization of purified Collagen from Marine Squid *Uroteuthis Duvauceli*. *International Journal of Life science and Pharma Research*. 2020. 10(4). L 121-133
- 14) Joicy Abraham, Mahija S.P. Jency George and **Manjusha, W.A.** Identification of Cytotoxicity of Marine sponge *Dendrilla membranosa* against L929 Cell line. *International Journal of Scientific Research in Science and Technology*. 2019; 6(1) pp. 147- 152
- 15) Selvin, J\*, Soniya, J., Asha, K.R.T., **Manjusha, W.A.**, Sangeetha, V.S. and Jayaseema, D.M. Antibacterial potential of antagonistic *Streptomyces* sp. isolated from the marine sponge *Dendrilla nigra*. 2004. *FEMS Microbiol Ecol*. 50: 117—122. N.B. ***This paper has been indexed in fifth position of top 25 research papers published in 2004 (<http://top25.sciencedirect.com>). Impact factor 2.45***

**Dr. P.A. Maryhelen**

1. Anitha.C, Dr. P.A. Mary Helen (2022). Purification of Bioactive Compounds By Column Chromatography and Detection of HPTLC Analysis Of *Cocos nucifera* Inflorescence. *European Journal of Molecular & Clinical Medicine*, vol.9, no.7, pp:7940-7946.
2. Anitha.C, Dr. P.A. Mary Helen (2022). Screening of anticancer activity of methanol extract of *Cocos nucifera* inflorescence in SK-MEL cell lines. *International journal of Food and Nutritional Sciences*, vol.11, no.8, pp: 1010-1019.
3. P.A. Mary Helen, Greeshma M.B, Akhil Kumar S, Athira, and Gopakumar S Nair (2023). Identification of nutritive value and heavy metal deposition in 4 spices of Amaranthaceae family VIZ. *Amaranthus tricolor, A. dubius, A. viridis and Spinaciaoleracea*. *Indian journal of environmental sciences*. vol.27(1), pp:15-17.

4. JesvinBency and **Mary Helen P.A.** Novel epitope based peptides for vaccine against SARS – CoV-2 virus: immunoinformatics with docking approach. *International Journal of Research in Medical Sciences*, 2020, 8(7): 2385.
5. Easwari S.V.P, Mahesh, R and **Mary Helen P.A.**, Callus immobilization and Effect of plant growth regulators on Callus Induction and Multiplication of *Annona muricata*, *Journal of Scientific Research*, 2020, 64 (2):146-152.
6. Easwari S.V.P, Vasanthakumari, B Vijayakumar, N and **Mary Helen P.A.** Effect of 2,4-D on callus induction and multiplication of *Annona muricata*. *International Journal of Innovative research in management, engineering and technology*, 2019, 4(2): 30-41.
7. Nandhu M.R, Abhirami V.A, Sukanya S, Prabin John J and **Mary Helen P.A.** Phytochemical Analysis and Antioxidant of Leaf Extracts of *Alysicarpus vaginalis*. *Journal of Emerging Technologies and Innovative Research*, 2019, 6(6):325-337.
8. Anitha C, **Mary Helen P.A.**, Monusha J.J and Shimna P.S. Phytochemical screening, bioactive compound identification and invitro antioxidant potential of *Wrightia tinctoria*, *Journal of Emerging Technologies and Innovative Research*, 2019, 6(8):510-518.
9. **Mary Helen P.A.**, **Teena D. S.**, **Godwin Jacob J. G.**, **Jinto James J.** and **Anitha C.** Preliminary phytochemical screening and antioxidant activity of leaf, stem and fruit of *Ananas cosmosus*. *World Journal of Pharmaceutical Research*, 2019, 8(5):1407-1416.

#### **Mrs. R.Rajini**

1. Insights of Bioactive potential and GC-MS profile of ethanolic and aqueous extract of leaf from the *Aerva lanta* (L) plant. *IJRAR*. 2019.
2. Sujatha & R. Rajini, Exploration of *Musa paradisiaca* L. Pseudostem erudite and its antibacterial influence against the causative agents of Urolithiatic bacterial species'. *JETIR Journal*.2022.

#### **DR. S. JUSTIN RAJ**

1. Abisha Vince Jeo V.S and **S. Justin Raj**, 2020. Therapeutic Properties and Applications of *Tecoma stans* Linn. *Int. J. Pharm. Sci. Rev. Res.*, 63(1): 111-115.

2. Reshmi R. P and S. Justin Raj, 2020. Antibacterial Activity of *Piper nigrum* Leaf against Different Species of Pathogenic Microbes. *Int. J. Pharm. Sci. Rev. Res.*, 62(1): 148-152.

**Dr. S.Sujatha**

1. Sujatha, S. Aseela Devi P.J. Beneesha V.K. Geethu, G. S. Sona, I.S. Jibin, M. A. Sajith S.K. Bedwin Tom K.S. 2019. Renovate the Infertile Rubber Plantation Soil to Fertile Soil through House Hold Agronomics Wastes, *International Journal of Pharmacy and Biological Sciences*. 9 (1): 213-220.
2. Sujatha, S. Akhila, K and Jinto James, J. 2019. Biological insights of Aromatic Plant Leaf Extract of *Zingiber ottensii* (Valeton) Against the Phytopathogenic Organism, *IOSR Journal Of Pharmacy And Biological Sciences*, 14, ( 1) : 01-09.
3. Sujatha, S. Divya, V. and Anchu, S.A, Aleena, A 2016. Bioactive Spectrum of three selected Medicinal flowers on chosen Microbes, *Research Journal of Life Sciences, Bioinformatics, pharmaceutical and Chemical Sciences (RJLBPCS)*, 2(2): 1-17.
4. Sujatha, S. Rajisha, Mary Fornica and Neethu, 2019. Biocidal activity of *Sygium aromaticum* (Willd) against on the larval mosquito of *Culex quinquefasciatus* (Say.) (Diptera: Culicidae). *International Research Journal of Natural Sciences*, 1-15.
5. Sujatha, S. Aseela Devi, Jibin, Sona, Gethu, and Bedwin Tom, 2019. Renovate the Infertile Rubber Plantation Soil to Fertile Soil through House Hold Agronomics Wastes, *International Journal of Pharmacy and Biological Sciences*, 9 (1): 213-220.
6. Sujatha, S. and Anperasi. 2019. Discriminating and bio- accumulation of mercury and lead Contamination in fresh water fish of tilapia, *International Journal Of Scientific Research*, *International Journal Of Scientific Research*, 1-3.
7. Sujatha, S. Anakha K.L., Bency Babu C.S., Keerthi M.P., Krishna Priya S. Anushma B. Nair. 2020. Imminent Bioperspectives of Aromatic Plant Leaf Extracts from *Cinnamomum tamala* and its Biopesticidal Potential against *Tribolium castaneum* (Herbst.), *International Journal of Biotechnology*, 5(2): 31–43p.
8. Aswathy Chandran<sup>1</sup> and S. Sujatha. 2020. Bio-perceptions of Hydro carbon contaminated soil and its Bioremediation effect with Biological Consortia, *Journal La Lifesci*, VOL. 01, ISSUE 03 (015-024).

9. Sujatha & R. Rajini, Exploration of *Musa paradisiaca* L. Pseudostem erudite and its antibacterial influence against the causative agents of Urolithiatic bacterial species'. JETIR Journal.2022.

**Dr. D.Jini**

1. **Jini, D.**, Rajapaksha, R.M.H., Ariya, S.S. and Joseph, B. (2022). Investigation on the impact of potential phytochemicals from *Curcuma longa* against COVID-19. *Journal of Plant Science*. 17(1): 33-52 (HI:18).
2. Jini, D., Sharmila, S., Anitha, A., Pandian, M. and Rajapaksha, R.M.H., 2022. In vitro and in silico studies of silver nanoparticles (AgNPs) from *Allium sativum* against diabetes. *ScientificReports*, 12(1),p.22109.
3. Panigrahi, P., **Jini, D.**, Bae, H., Lee, H., Ahuja, R. and Hussain, T. (2021). Two-dimensional Janus monolayers of MoSSe as promising sensor towards selected adulterants compounds. *Applied Surface Science*.542:148590 (IF:6.182).
4. Jini, D. and A. Anitha (2021). Anticancer potential of green solvents. In: Green Sustainable Process for Chemical and Environmental Engineering and Science. Inamuddin, Ahamed, M.I., Boddula, R., Asiri. A.M. (Elsevier)Pp, 29-53.
5. **Jini, D.** and Sharmila, S. (2020). Green synthesis of silver nanoparticles from *Allium cepa* and its *in vitro* antidiabetic activity. *Materials Today Proceedings*.,22:432-438 (SJR:0.3).
6. Anitha, A. and **Jini, D.** (2020). Ionic liquids as solvents in biodiesel production. *World Review of Science, Technology and Sustainable Development*.,16(2):122-40 (HI: 13).
7. **Jini, D.**, Malathy, A., Anitha, A., Dhinakaran, A.S. and Suresh, P. (2019). Preparation of herbal curd with *Gymnema sylvestre* and its characterization for the treatment of liver cancer. *Journal of food process engineering*. 43(3):e13338 (IF:1.703).

### **Workshop/Seminar/Symposium organized**

1. **One day Seminar on Career path for life science students** held on 29<sup>th</sup> January 2019.
2. **Hands on Training Programme on Bioinformatics** held on 11<sup>th</sup> and 12<sup>th</sup> February 2019
3. **National Workshop on Animal Tissue Culture and Molecular Biology Techniques** held on 27<sup>th</sup> and 28<sup>th</sup> February 2019
4. **Two days “Workshop on Proteomics and Immuno blotting”** held on 29 & 30 of January 2020.
5. One day Hands on training on **“Layering, T- budding and Epigrafting in plants”** was organized by Department of Biotechnology. The trainee is from Athmanilayam Nursery Garden, Cheruvarakonam on 13<sup>th</sup> February 2020.
6. **One day career guidance** on “Ph.D studies in Taiwan” was organized by department of Biotechnology on 18<sup>th</sup> November 2021
7. An **online Alumni meet** was organized by department of Biotechnology on 12-01-2021 through zoom platform.
8. **“ONE DAY ORIENTATION PROGRAMME ON RECENT RESEARCH IN BIOTECHNOLOGY”** on 24<sup>th</sup> February 2022.
9. The Department of Biotechnology has celebrated **“SCIENCE DAY”** on 28.02.2022.
10. Three days **“HANDS ON TRAINING ON TECHNIQUES IN MOLECULAR BIOLOGY”** from 05/04/2022 to 07/04/2022 in collaboration with X-Cellogen Biotech Pvt. Ltd.
11. An **Online One day career guidance on “Medical coding”** was organized by department of Biotechnology on 30<sup>th</sup> October 2022
12. One day Talk on **Marine Bioprospecting** was organized by the department of Biotechnology on 12<sup>th</sup> October 2022. Dr. T. Citarasu, Associate professor, CMST, M.S. University served as invited guest.
13. The department has conducted Research paper and poster presentation for III UG, I & II PG & Research students on 12<sup>th</sup> October 2022.
14. The department has conducted one day “Japanese endowed course “ on 8<sup>th</sup> February 2023 in collaboration with ICBM and CHGIT, Chennai
15. The department has organized one day “Agricultural Entrepreneurship” on 10<sup>th</sup> February 2023.
16. The department has organized two days National Workshop on **“Molecular Biology Techniques and DNA barcoding”** on 27/02/23 to 28/02/23 in collaboration with NIMS Medicity.