



Dr. JESTEENA JOHNEY, Ph.D.,

Head of the Department

Centre for Bioscience and Nanoscience Research, Coimbatore-21, TamilNadu, India

Personal Profile

Official Address : Centre for Bioscience and Nanoscience Research,
461/3 Amman Nagar, L and T Bypass Road, Eachanari,
Coimbatore-641021, TamilNadu, India

Mobile Number : +91 9629236319

E-mail : jesticbnr@gmail.com

Academic Qualifications: M.Sc., Ph.D

Degree / Qualification	Name of the Institution	Board	Year
Ph.D (Food & Nutrition)	Bharathiar University	Bharathiar University	2022
Food Safety Supervisor Certificate of Competence	KSPC	FSSAI	2019
MSc. Food & Nutrition	Dr. N.G.P Arts And Science College, Coimbatore	Bharathiar University	2014
BSc. Microbiology	ST. Pius X th College, Rajapuram	Kannur University	2012

Teaching and Research Experience: 10.6 years

Employment details

- Over 10 years of Research and Teaching experience in the field of Microbiology, Biotechnology, Molecular biology, Nanotechnology and Food Microbiology.
- Working as Head of the Institute from 04/07/2023 to till date.
- Worked as Joint Director in Centre for Bioscience and Nanoscience Research (Affiliated to Bharathiar University), Coimbatore, Tamilnadu, India, from 20/05/2016 to 03/07/2023.

- Worked as Microbiologist in the same research institute from 20/05/2014 to 19/05/2016.

Area of Research

- Edible coating to the fruits and vegetable using Biopolymer
- Preparation of value added products using cereals, pulses and millet
- Biogenic synthesizing of Silver, Gold, Zinc and Titanium nanoparticle using plants and Microbes
- Extraction and identification of Antimicrobial and Anticancer agent (Bacteria, Fungi and Plants).
- Extraction and identification of phytoconstituent (Plants)
- Identification of Microorganism using Microbiology and Molecular biology techniques

Additional works and Events Organized in leading roles

- Editorial board member in Scholastic Journal
- Member in BGR publication
- Acted as peer reviewer (Manuscripts) in the journal of Food science and Applied Biotechnology (**Elsevier**) and Aqua culture Research (**Hindawi**)
- Act as a **Board of Study** member in NGP college
- ISO auditee 2015 to till date
- **Trainer** - Implant trainer for the students of various colleges from 2014 to till date.
- Giving guidance for the B.Sc and M.Sc students for various department of life science for the project works.
- **Co-ordinator** - National conference (3), National Seminar (6), National level workshop (13), online courses (10). FDP programme (3)

Research paper Publication, NCBI gene sequencing, Patent

- Research article published in various **UGC, Web of science, Scopus** Indexed Journal : **47** (Field of Molecular biology, Microbiology, Biotechnology, Food microbiology, Food and Nutrition, Nanotechnology etc.)
- <https://www.researchgate.net/profile/Jesteena-Johney>
- <https://scholar.google.com/citations?hl=en&user=XKSYlswAAAAJ>

Total number of Publications in various Journals	Citation	I10index	H-index
47	234	9	9

- NCBI gene sequence submitted : **42**

Publications

1. Geethu Suresh, R. Ragunathan & **Jesteena Johney.**, 2024, Optimization of laccase production by *P.pulmonarius* through solid substrate fermentation of tender coconut enhanced laccase production and biomass delignification, **Biomass Conversion and Biorefinery**, <https://doi.org/10.1007/s13399-024-06263-0>.
2. Linima VK, Ragunathan R, **Jesteena Johney.**, 2024, Biofabrication of *Centella asiatica* mediated metal (Silver and Iron) nanoparticles and their enhanced antimicrobial, anticancer activity in retinoblastoma Y79 cancer cells, **Nano-Structures & Nano-Objects**, 39(3): 101226, DOI:10.1016/j.nanoso.2024.101226
3. Geethu Suresh, R. Ragunathan & **Jesteena Johney.**, 2024, Assessing the Impact of Corn Steep Liquor as an Inducer on Enhancing Laccase Production and Laccase Gene (Lac1) Transcription in *Pleurotus Pulmonarius* During Solid-State Fermentation, **Biosciences Biotechnology Research Asia**, 20(4):1407-1418, DOI:10.13005/bbra/3186
4. S. Santhiya, R. Ragunathan & **Jesteena Johney.**, Evaluation and characterization of *Vachellia leucophloea* (Roxb.) Maslin, Seigler & Ebinger using phytochemical, antioxidant, GC-MS, antibacterial, and anticancer properties, **Plant Science Today**, <https://doi.org/10.14719/pst.3160>
5. Parvathy Menon P R, Nirmala Devi N, R Ragunathan, **Jesteena Johney.**, Anti-Diabetic Activity and Anti-Oxidant Activity of *Kalanchoe Pinnata* and their Characterization Studies, **Journal of survey in fisheries Sciences**, 2024,11(4), 1-7. <https://doi.org/10.53555/sfs.v11i4.2721>
6. Sabari Rani Ganesh Moorthy, Sasidharan Satheesh Kumar, Kishore Devandaran, Santhosh Anguchamy, Ramachandra Ragunathan and **Jesteena Johney.**, Evaluation of the Antimicrobial, Antioxidant, and Cytotoxicity Against MCF-7 Breast Cancer Cell Lines of *Phyllanthus emblica* L. Bark Extract, **Journal of Natural Remedies**, 2024, 24 (5),1091-1097, DOI: 10.18311/jnr/2024/36228
7. C.M. Brinda, R. Ragunathan and **Jesteena Johney.**, Biosurfactant production by *Bacillus amyloliquefaciens*, characterization and its potential applications, **Journal of Environmental Biology**, 2024,;45 (3)338-348, <http://doi.org/10.22438/jeb/45/3/MRN-5202>
8. Geethu Suresh, R. Ragunathan and **Jesteena Johney**, 2023, Screening and Molecular Identification of Potential Lignolytic White Rot Fungi Isolated from Western Ghats, **Biosciences Biotechnology Research Asia**, 20 (4), DOI : <http://dx.doi.org/10.13005/bbra/3186>.
9. S. Violet Beulah, M. Rajalakshmi, P. Srinivasan, M. Greeshma, V. Abirami, U. Sivabarathi, R.Ragunathan, **Jesteena Johney**, V. Bharathi, 2023, In Vitro Antioxidant and Anticancer Effect of *Ganoderma Lucidum* from Wood, **Advances in Bioresearch**, 14(5), 158-167.
10. **Jesteena Johney**, Vibha Shruthi R, Reshmi Gopalakrishnan, R. Ragunathan., Direct synthesis of PVA-PEG-based silver nanocomposites (using *Pleurotus* species) as nano antibiotics, International Journal of Current Science - IJCSPUB (IJCSPUB.ORG), 2023: 13 (4); 255-266.
11. N. Abirami, **Jesteena Johney**, R. Ragunathan, 2023, Production of surfactin from novel *Bacillus* Spp. isolated from soil and its antifungal properties, **Journal of Environmental Biology**, 44, 728-735.
12. N. Muthukrishnan, R. Ragunathan, **Jesteena Johney**, 2023, Statistical Optimization of Alkaline Protease Enzyme Produced by *Bacillus subtilis* MH266414 and its Application in Different Industries, **International Journal of Current Microbiology and Applied Sciences**, 12(5):125-135
13. Subramanian Pradeepa, Shanmuga sundaram Chithra, **Jesteena Johney**, Ebenezer Sam, Ragunathan R, 2023, Encapsulation of Grape Seed Extract and Evaluation of its Potency against Gram-Negative

- Bacteria and Cervical Cancer, *International Journal of Innovative Science and Research Technology*, 8(5), 3131- 3137.
14. Linima VK, Ragunathan R, **Jesteena Johnney**, 2023, Biogenic synthesis of *Ricinus communis* mediated iron and silver nanoparticles and its antibacterial and antifungal activity, *Heliyon*, 1; 9(5).
 15. C.M. Brinda, R. Ragunathan, **Jesteena Johnney**, 2023, Diversity and Distribution of Potential Biosurfactant Producing *Bacillus sp* MN 243657, GC-MS Analysis and its Antimicrobial Study, *Biosciences Biotechnology Research Asia*, 20(1):271-291.
 16. D.Siva, Vidya AK, Ragunathan R, **Jesteena Johnney**, 2023, Production and purification and characterization of streptokinase using *Bacillus licheniformis* under solid state fermentation, *Journal of Global Biosciences*, 4(7):2703-12.
 17. Shameela Khadeeja A, **Jesteena Johnney**, Ragunathan, R, 2023, Evaluation of Antioxidant, Antimicrobial, Anticancer, and wound healing properties of leaf extracts of *Acanthus ilicifolius* L, *International Journal of Current Pharmaceutical Research*, 15, 1, 22–29.
 18. K. Kavya, R. Ragunathan and **Jesteena Johnney**, 2023, Pharmacological study, antimicrobial activity and anticancer effects of onion and ginger extracts, *World Journal of Pharmacy and Pharmaceutical Sciences*, 12(3);1108-1122.
 19. Vipin Krishna SL, R Ragunathan, and Jesteena Johnney,2023, Characterization and Evaluation Of Metabolites Using *Lactiplantibacillus plantarum* (OP535992.1) isolated From Indigenous Cow Milk And Its Antimicrobial, Anti-cancerous Properties, *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 14(1), 1- 7.
 20. Khadeeja S, Ragunathan R, **Jesteena Johnney**, Muthusamy K, 2022, Phytochemical Analysis, Antimicrobial and Antioxidant Activity of Mangrove Plants *Bruguiera gymnorhiza* (L.) Lam. and *Excoecaria agallocha* L, *Indian Journal of Science and Technology*, 15;15(47):2594-604.
 21. Ragunathan R, Velusamy S, Nallasamy JL, Shanmugamoorthy M, **Jesteena Johnney**, Veerasamy S, Gopalakrishnan D, Nithyanandham M, Balamoorthy D, Velusamy P, 2022, Synthesis and enhanced photocatalytic activity of zinc oxide-based nanoparticles and its antibacterial activity, *Journal of Nanomaterials*, 15(1);1-9.
 22. Lakshmipriya VP, Anagha RK, Ragunathan Ramachandran and **Jesteena Johnney**, 2022, Studies on Extraction of Chitosan from *Trichoderma Viridae* and Effect of Chitosan Based Edible Coating on Cucumber, *International Journal for Research in Applied Science & Engineering Technology*, DOI:10.22214/ijraset.2022.42181.
 23. **Jesteena Johnney**, Sri SR, Ragunathan R, 2022, Development of Chitosan Silver Nanocomposites: Its Characteristic Study and Toxicity Effect against 3T3-L1 Cell Line, *Journal of Pure and Applied Microbiology*, 21;16(1):494-502.
 24. Natarajan M, Babu SP, Balasubramanian M, Ramachandran R, **Jesteena Johnney**, 2022, Bioactive exopolysaccharide from endophytic *Bacillus thuringiensis* SMJR inhibits food borne pathogens and enhances the shelf life of foods, *Bioactive Carbohydrates and Dietary Fibre*, 1;27:100297.
 25. R. Laxmi priya, R. Ragunathan, **Jesteena Johnney**, 2022, Revealing the Phytochemical Constituents and Biological Evaluation of *Ruta Chalepensis* L (MK828113), *Journal of Pharmaceutical Negative Research*, 13(9),436-453.
 26. Kalima S, Mariappan KT, **Jesteena Johnney**, Ragunathan R, 2021, Extraction of Secondary Metabolites Using *Bacillus endopyticus* and Its Applications, *Journal of Pharmaceutical Research International*, 3;33(30B):18-24.
 27. Alicia Tiny, **Jesteena Johnney**, Ragunathan R, 2020, Biogenic Synthesis of Silver nanoparticle using *Syzygium samarangense* leaf extract and its Antioxidant, Antibacterial and Drug Conjugation studies, *Journal of Pharmaceutical Science and Research*, 12(8),1124-1130.

28. Swathi Krishna R, Sujatha S, Ragunathan R and **Jesteena Johney**, 2020, Characterisation, Antioxidant, Antibacterial and Anticancer activity of Essential oil of *Cymbopogon citratus* and its food preservative effect on *Anchovy fish (Stolephorus indicus)*, ***International Journal of Creative Research Thoughts***, 8(5), 3075-3082.
29. Prakkash MJ, Ragunathan R, **Jesteena Johney**, 2019, Evaluation of bioactive compounds from *Jasminum polyanthum* and its medicinal properties, ***Journal of drug delivery and therapeutics***, 9(2):303-10.
30. Ramasamy R, Subramanian SA, Rajagopal RA, Muthusamy K, **Jesteena Johney**, Ragunathan R, 2018, Molecular Identification and Analysis of Multi-Drug Resistant *Klebsiella pneumoniae*, ***International Journal of Applied Sciences and Biotechnology***, 6(3):279-84.
31. **Jesteena Johney**, Sri SR, Ragunathan R, 2018, Extraction of Chitin and Chitosan from Wild Type *Pleurotus Spp* and its Potential Application – Innovative Approach. ***Journal of Pure Applied Microbiology***, 12(3):1631-1640.
32. Kalima S, **Jesteena Johney**, Thanga Mariappan K, N. Vidhya, R. Ragunathan, 2018, Evaluation of antibacterial study of Indian spices and its compounds characterisation -A comparative Study, ***Research Journal of Pharmaceutical, Biological and Chemical Sciences***, 4(4);443-452.
33. K. Subhaharini, Jesteena Johney, R. Ragunathan, 2018, Silver Nanocomposites from *Aegle marmelos* and its Potential Applications, ***International Journal of Science and Research***, 7 (7), 1189-1194.
34. Thomas SK, **Jesteena Johney**, Ragunathan R, 2018, Molecular characterization of *Myroides gitamensis* from fish samples and use bio preservatives, ***Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences***, 2018;4:568-78.
35. Karthikeyan V, Ragunathan R, **Jesteena Johney**, 2018, Molecular identification of *Pleurotus spp* isolated from Yelagiri niche and its laccase production, ***Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences***, 4(4):209-17.
36. Susan, K.T., **Jesteena Johney**, Ragunathan, R., 2017, Eco-friendly synthesis of silver nanoparticles using banana (*Musa acuminata colla*) peel, its phytochemical, antimicrobial and anticancer activity, ***International Journal of Recent Scientific Research***, 8(10), 21098-21106.
37. Monisha M, Sowmiya M, Ragunathan R, **Jesteena Johney**, 2017, Extraction of bio active compounds from *Cassia auriculata* pods and leaves and its medicinal uses, ***International Journal of Current Microbiology and Applied Science***, 6(8):425-34.
38. Meiyarasi R, Mohanapriya T, Monika B, Shravanthika M, Nithyapriya S, **Jesteena Johney**, Ragunathan R, 2017, Isolation and PCR Amplification of *E. coli* from Freshwater Fish (*Cirrhinus cirrhosis*) and its PCR Amplification of SHV Gene, ***International Journal of Current Microbiology and Applied Science***, 6(4):2467-76.
39. Rajamani M, **Jesteena Johney**, Ragunathan R, 2017, Detection of mecA gene associated with methicillin resistant *Staphylococcus aureus* and its alternatives using nanoparticles and chia seeds, ***International Journal of Medical Research & Health Sciences***, 1;6(11):67-75.
40. Soundararajan G, Ramesh Babu NG, **Jesteena Johney**, Ragunathan R, 2017, Extraction of bioactive compounds from *Rosmarinus officinalis* L. and its anticancer activity against HeLa Cell Line, ***International Journal of Scientific Research***, 6(8):16
41. Suresh K, Ragunathan R, **Jesteena Johney**, 2017, Molecular characterization of Methicillin resistant *Staphylococcus aureus* (MRSA) isolated from ocular patients, ***Der Pharmacia Letter***, 7. 262-270.
42. **Jesteena Johney**, Kannan Eagappan, R. R. Ragunathan, 2017, Microbial extraction of chitin and chitosan from *Pleurotus spp*, its characterization and antimicrobial activity., ***International Journal of Current Pharmaceutical Research***, 9(1);88-93.

43. Nisha V, Monisha C, Ragunathan R, **Jesteena Johney**, 2016, Use of chitosan as edible coating on fruits and in micro biological activity-an ecofriendly approach, *International Journal of Pharmaceutical Science Invention*, 5(8):7-14.
44. Suruthi M, Sivabalakrishnan S, Yuvasri G, Ragunathan R, **Jesteena Johney**, 2016, Antioxidant, Anticancer activity of *Leucas aspera* plant extract and it's DNA damage study on He-La Cell lines, *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences*, 2(2) 1-9.
45. Karthikeyan G, Ponmalar R, Ragunathan R, **Jesteena Johney**, 2015, Degradation and Decolourisation of Textile Industry Effluents using Fungi CBNR isolates, *International Journal of Applied Bioengineering*, 9(2).
46. Ragunathan R, Kumar RR, Tamilenth A, **Jesteena Johney**, 2015, Green synthesis of chitosan silver nanocomposites, its medical and edible coating on fruits and vegetables, *International Journal of Biological & Pharmaceutical Research*, 6(2):129-36.
47. **Jesteena Johney**, R. Ragunathan, K Arul Mozhi, 2014, Development of Low Molecular Chitosan and Its Silver Nanocomposites for the Edible Fruits Coating to Improve the Shelf Life Period, *Research Journal of Pharmaceutical Biological and Chemical Sciences*, 5(6 40).