

Curriculum Vitae

General Information

Name : Dr. M. Kowsalya
Email : kowsalyamariyappan23@gmail.com
Date of Birth : 23.05.1996
Nationality : India
Highest Qualification : Ph.D.,
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Academic Background/ Education

Academic Qualification	Year	University / Institution	Recognition status
Ph.D	2024	K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.	UGC Regulation, 2016
M.Sc.,	2018	K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode.	UGC
B.Sc.,	2016	Kongu Arts & Science College affiliated to Bharathiar University, Erode	UGC

Employment/ Work History

Post occupied	From	To	Institution/College	Total duration
Assistant Professor	June, 2024	Present	K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode-637215.	3 Months
Research Scholar	Dec, 2018	Feb, 2024	K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode-637215.	6

Publications

1. **Kowsalya, M.,** Sudha, K. G., Ali, S., Velmurugan, T., Karunakaran, G., & Prasanna Rajeshkumar, M*. (2022). In-Vitro Assessment Of Probiotic Properties Of Lactic Acid Bacteria Isolated From Naturally Fermented Rice Gruel Of South India. *Journal of Microbiology, Biotechnology and Food Sciences*, 12(1), e4908. <https://doi.org/10.55251/jmbfs.4908>. **(Impact Factor: 1)**.
2. **Kowsalya, M.,** Sudha, K.G., Ali, S., Velmurugan, T., Prasanna Rajeshkumar, M*. (2023). Sustainability and controlled release behavior of microencapsulated *Lactobacillus plantarum* PRK7 and its application in probiotic yogurt production. *Food Bioscience*, 52, 102430. <https://doi.org/10.1016/j.fbio.2023.102430>. **(Impact factor: 5.31)**.

3. **Kowsalya, M.,** Velmurugan, T., Mythili, R., Kim, W., Sudha, K.G., Ali, S., Kalpana, B., Ramalingam, S., & Prasanna Rajeshkumar, M*. (2023). Extraction and characterization of exopolysaccharides from *Lactiplantibacillus plantarum* strain PRK7 and PRK11, and evaluation of their antioxidant, emulsion and antibiofilm activities. *International Journal of Biological Macromolecules* 242, 124842. **(Impact factor: 8.2)**
4. **Kowsalya, M.,** Prasanna Rajeshkumar, M*, Velmurugan, T., Sudha, K.G., Ali, S. (2020). Role of vitamin E in boosting the immunity from neonates to elderly. Intech Open Book series, Biochemistry, vol 22. Book entitled 'Vitamin E in Health and Diseases'. <https://doi.org/10.5772/intechopen.98553>.
5. Ali, S., Sudha, K.G., Karunakaran, G., **Kowsalya, M.,** Kolesnikov, E., Gorshenkov, M.V., VVelmurugan, T., Prasanna Rajeshkumar, M*. (2022). Anticancer and photocatalytic activities of zinc oxide nanorods synthesized from *Manilkara littoralis* leaf extract. *Materials Chemistry and Physics*, 277, 125541. <https://doi.org/10.1016/j.matchemphys.2021.125541> **(Elsevier: Impact factor. 4.6)**
6. Sudha, KG, Ali S, Karunakaran G, **Kowsalya M,** Kolesnikov E, Mikhail V., Gorshenkove, Velmurugan T, Prasanna Rajeshkumar M*. (2021). An eco-friendly production of ZnO NRs using *Knema andamanica* (Warb) extracts for photocatalytic and anticancer applications. *Inorganic Chemistry Communications*, 109030, <https://doi.org/10.1016/j.inoche.2021.109030> **(Impact Factor: 2.495).**
7. Ali S, Sudha KG, Karunakaran G, **Kowsalya M,** Kolesnikov E, Mikhail V. Gorshenkove, Prasanna Rajeshkumar M*. (2021). Novel *Leea grandifolia* leaves mediated synthesis of ZnO nanorods for photocatalytic and anticancer applications. *Applied Organometallic Chemistry*, <http://doi.10.1002/aoc.6239> **(Wiley: Impact factor. 4.105).**
8. Sudha KG, Ali S, Karunakaran G, **Kowsalya M,** Kolesnikov E, Prasanna Rajeshkumar, M*. Eco-friendly synthesis of ZnO nanorods using *Cycas pschannae* plant extract with excellent photocatalytic, antioxidant, and anticancer nanomedicine for lung cancer treatment. *Applied Organometallic Chemistry*, 34 (4) 2020, 5511, <https://doi.org/10.1002/aoc.5511> **(Wiley: Impact factor. 4.105).**
9. Sudha KG, Ali S, Karunakaran G, **Kowsalya M,** Kolesnikov Mikhail V., Gorshenkove, Prasanna Rajeshkumar M*. *Cyrtandroemia nicobarica*-Synthesized ZnO NRs: A New Tool in Cancer Treatment. *JOM* <https://doi.org/10.1007/s11837-020-04486-w> (Springer: Impact factor. 2.305).
10. Ali S, Sudha KG, Karunakaran G, **Kowsalya M,** Kolesnikov E, Prasanna Rajeshkumar M*. "Green synthesis of stable antioxidant, anticancer and photocatalytic activity of zinc oxide nanorods from *Leea asiatica* leaf. *Journal of Biotechnology* 329 2021, 65-79, <http://doi.org/10.1016/j.biotech.2021.01.022> **(Elsevier: Impact factor. 3.307).**

11. Karunakaran, G., Cho E-B, Kumar, G.S., Kolesnikov, E., Sudha, K.G., **Mariyappan, K.**, Han, A., Choi, S.S. (2022). Citric Acid-Mediated Microwave-Hydrothermal Synthesis of Mesoporous F-Doped HAp Nanorods from Bio-Waste for Biocidal Implant Applications. *Nanomaterials*,12(3):315. <https://doi.org/10.3390/nano12030315>.
12. Karunakaran, G., Cho E-B, Kumar, G.S., Kolesnikov, E., Sudha, K.G., **Mariyappan, K.**, Boobalan, S. (2023). CTAB enabled microwave-hydrothermal assisted mesoporous Zn-doped hydroxyapatite nanorods synthesis using bio-waste *Nodipecten nodosus* scallop for biomedical implant applications. *Environmental Research*, 216 (3), 114683.
13. **Kowsalya, M.**, Totewad, N.D. (2022). A Review on Production Of Folate From Probiotic Bacteria. *International Journal of Pharmaceutical Research*, 14 (2). <https://doi.org/10.31838/ijpr/2022.14.03.015>.
14. **Kowsalya, M.**, Deepakala, B., Velmurugan, T., Prasanna Rajeshkumar, M*. (2024). Probiotics: Healthy Gut Microbiota to lead a wholesome Life. *International Journal of Nature Science*, vol1(1), 15-23.

Conferences/Workshops

1. Kowsalya, M., Velmurugan, T., Prasanna Rajeshkumar, M. (2023). “Microencapsulation of Lactobacillus plantarum in sodium alginate, inulin and skim milk formulation to study its effect on viability, storage stability and development of probiotic yogurt and chocolates” Presented an Oral presentation in 18th International Conference on ‘Converging microbiological innovation for application in animal, plant, environment and health care’(ICCMIA-2023) on 27th &28th January 2023.
2. Kowsalya, M., Velmurugan, T., Sudha, K.G., Ali, S., Prasanna Rajeshkumar, M*. (2021). “Extraction and characterization of exopolysaccharides from Lactobacillus plantarum isolated from fermented rice gruel a South Indian Fermented Foods”. Awarded Best Oral Presentation in International Virtual Conference on Biology in 21st Century. Conducted from 4th to 13th August, 2021. Kongunadu Arts and Science College (Autonomous), Coimbatore, TN, India.
3. Kowsalya, M., Velmurugan, T., Sudha, K.G., Saheb Ali., Prasanna Rajeshkumar, M. (2020). “Isolation and probiotic characterization of probiotic bacteria isolated from fermented foods”. International Virtual Conference on Natural Products and Synthetic Biology (ICNSB2020). Organized by Bio Sciences and Technology VIT, Vellore & Society of Chemical and Synthetic Biology (SCSB) on 4th-5th July 2020.pp-27.

4. Kowsalya, M., Sudha, K.G., Saheb Ali., Velmurugan, T., Prasanna Rajeshkumar, M. “Health benefits of probiotics in fermented foods” International Virtual Conference on Biology in 21st Century: Transforming of Biological Sciences in supporting the sustainable development goals. Organized by Jointly with Indian Science Congress Association and Department of zoology, Kongunadu Arts and Science college, Coimbatore conducted on 25th June 2020.
5. Kowsalya, M., Sudha, K.G., Saheb Ali., Prasanna Rajeshkumar, M. (2019). “A review on role of probiotics and nutritional diets in infants and children for healthy lifestyle”. CSIR-Sponsored- National conference on Translating the Science into Art of Healthy Living, organized by Department of Biological Science, held at K. S. Rangasamy College of Arts and Science (Autonomous) Namakkal. Conducted on 30th & 31st January 2019. ISBN:978-98-5346-732-6.