

Department of Biochemistry

List of publications and patent

List of Publications

1. N Hurria, S Dhonde, PE Jagtap, GJ Belwalkar, NS Nagane, VS Bhandare, Effect of soft drinks on bone, Int J Clin Biochem Res 8 (2), 104-108 (2021)
2. Murugan, K., J. Subramaniam, R. Rajaganesh, C. Panneerselvam, P. Amuthavalli, **J. Anitha**, L. Wang, J.-S.-Hwang *, H.-U. Dahms, S. Mudigonda and Al Thabiani Aziz, Efficacy and side effects of bio-fabricated Sardine fish scale silver nanoparticles against malarial vector *Anopheles stephensi*. Scientific Reports. 11 (2021) 19567. (SCI).
3. P. Murugesan, **J. Anitha**, R. Selvakumar, A Short Verification of the Quality of Irrigation Water in the Tea-growing Districts of South India, Bhartiya Krishi Anusandhan Patrika. 2021. (36):237-241
4. P. Amuthavalli, **J. Anitha et al.**, Zinc oxide nanoparticles using plant *Lawsonia inermis* and their mosquitocidal, antimicrobial, anticancer applications showing moderate side effects, Sci Rep 11, 8837 (2021). <https://doi.org/10.1038/s41598-021-88164-0>.
5. S Dhonde, PE Jagtap, GJ Belwalkar, V Mane, N Shilwant, NS Nagane, A study of microalbuminuria in patients with type 2 diabetes mellitus, visiting tertiary care center Sangli, International Journal of Clinical Biochemistry and Research 9 (1), 31-37 (2022)
6. Shaikh Sajeed, Nagaraj, Study of serum Magnesium, Potassium and Calcium in Acute myocardial infarction patients, AMJ, ISS:0005-2523, Volume 62, Issue10, Dec 2022
7. Pyati A K, Khanikekar P K, Shetkar N R, et al. (June 20, 2022) Association of Cord Blood Glucose, Sodium, Potassium, and Calcium Levels With Neonatal Birth Asphyxia: A Hospital-Based Study. Cureus 14(6): e26115. DOI 10.7759/cureus.26115
8. Yerramsetty, Hitesh Chopra, Viajaya Nirmala Pangi, Veera Bramhachari Pallaval, Anitha J., Yugal Kishore Mohanta, Mohammad Amjad Kamal* and Sunil Junapudi, Venomous Peptides as Cardiac Ion Channel's Modulators, Venoms and Toxins 2: 2022: 12-20.
9. J. Anitha, R. Selvakumar, S. Hema, K. Muruganand T. Permkumar, Facile green synthesis of nano-sized ZnO using leaf extract of *Morinda tinctoria*: MCF-7 cell cycle arrest, antiproliferation, and apoptosis studies, Journal of Industrial and Engineering Chemistry, 105 (2022) 520–529.
10. Shaik Sajeed, Nagaraj, Anand K. Pyati, Mirza Sharif Ahmed Baig, Study of oxidative stress and antioxidant levels in Emphysema patients, ISSN: 0005-2523 Volume 63, Issue 01, January, 2023
11. Dr. Sadiya Afreen, Dr. Mirza Sharif Ahmed Baig, Dr Nagaraj S, Dr Saba Nazneen Khan, Correlation of Vitamin D levels in children with lower Respiratory tract infections in age

group of six months to five years, Volume - 12, Issue - 06, June - 2023 • Print ISSN No. 2277 – 8160, doi : 10.36106/gjra

12. J. Anitha, Aathi Muthusankar, Sundram Viswanathan, Palanivel Murugesan, Nallani Chakravarthula Gayathri, Rajendran Selvakumar and Thathan Premkumar, Molecular targeting of prodigiosin against anti-inflammatory genes cyclooxygenase-1 and -2, Process Biochemistry, Volume 126, March 2023, Pages 260-271.
13. Dr. Vaishali Bhandare Joshi, Dr. P. E. Jagtap et al., Advancement in Biomarkers for early diagnosis and Management of Neonatal sepsis: Insights into Oxidative stress, Inflammatory Markers and Novel Biomarkers, jchr, 14(2), 2187-2193 (2024)
14. Questionnaire-based comparative analysis of conventional chalk & blackboard versus power point presentation as teaching methods in Medical college from students perspective & point of view. Natl. J. Physiol. Pharm. Pharmacol (2024) Vol. X(X): 1–8.
15. M. Sangeetha, Aathi Muthusankar, and J. Anitha, Design and Synthesis of Linear Acetamides As Cholesterol Lowering Agents, Russian Journal of Bioorganic Chemistry, 50(5) (2024) 1–14.
16. Dr. P.E. Jagtap, et al., Role of Hormones and inflammatory Markers in female infertility, Walawalkar int. med. J., 12(2) (2025)
17. Shaik Sajeed, Nagaraj, Study of Microalbuminuria level among patients with Type-2 Diabetes Mellitus complications in tertiary care hospital of Maharashtra. JAMP: Int. J. Acad Pharma. 2025; 7(1); 470-473 International Journal of Academic Medicine & Pharmacy, ISSN (O): 2687-5365 ; ISSN (P): 2753-6556. (2025)
18. J. Anitha, A.Muthusankar, M.Sangeetha , V.Lokesh Kishore, P. Sherin, R. Selvakumar, K. Chandraprakash, T. Premkumar. Chitosan-coated silver nanoparticles synthesized using Moringa oleifera flower extract: A potential therapeutic approach against triple-negative breast cancer, International Journal of Biological Macromolecules, 320(4), 2025, 145995.

List of Patent

- F.No. 202341080480, **J. Anitha et al.**, Antiviral kepel leaves compounds against monkey pox protein process thereof, Indian patent, published, **waiting for exam**, December 2023.
- F.No. 201941044048, **Dr. J. Anitha, Dr. R. Selvakumar and Dr. K. Murugan**, Synthesis of dried bikki seed reduced nanoparticles against skin cancer therof, Indian Patent Granted on 25.4.2024, **patent grant number 534979**.

- F.No. 202521083590 A, **J. Anitha et al.**, Biogenic Zinc nanoparticles from *Rhodymyrtus tomentosa* for colon cancer therapy, Indian patent Published 19/9/2025, **waiting for exam.**