



HOLY CROSS COLLEGE (AUTONOMOUS)
Tiruchirapalli-620002



**PG & RESEARCH DEPARTMENT OF BIOTECHNOLOGY &
BIOINFORMATICS**

PAPER PUBLICATION (2023 -2024)

1. Uthra Selvaraj, Sivaranjani Ganapathy, Arumugam Muthuvel, Asha Monica Alex, Javed Masood Khan, **Periyasamy Vijayalakshmi** (2024), Evaluation of the toxicological properties of Himantura imbricata Venom using a zebrafish model (*Danio rerio*), *Toxicon*, 243, 107739.
2. Vidhya Rekha Umopathy, Anandhi Dhanavel, R Kesavan, Prabhu Manickam Natarajan, S Bhumathan, **P Vijayalakshmi** (2024), Anticancer Potential of the Principal Constituent of *Piper nigrum*, Piperine: A Comprehensive Review, *Cureus*, 16(2), e54425.
3. **Rajamanickam Pon Nivedha**, Queen rosary sheela, Saravanan snega, Sherin Rebecca (2024), Isolation and characterization of dye decolorizing bacteria from the textile dye effluents, *Journal of advanced zoology* 44(4):1069-1075.
4. D. S. Ranjith Santhosh Kumar, S. Hari Puthiran, Gayathri Devi Selvaraju, Paul A. Matthew, P. Senthilkumar, **Sowmya Kuppusamy**, Ravishankar Ram Mani, Ashraf Atef Hatamleh, Munirah Abdullah AI- Dosary, Soon-Woong Chang (2023), Preparation and Characterization of Magnetite-Polyvinyl Alcohol Hybrid Nanoparticles (As-PVA-MNPs) Using *Acanthophora spicifera* Marine Algae Extract for Enhanced Antimicrobial Activity Against Pathogenic Microorganisms, *Molecular Biotechnology*, Epub ahead of print. PMID: 37907811.
5. Chandran SCS, Christopher I, Sounderraajan A, Murugesan V, Sabapathy I, Periyasamy V, **Manikkam R** (2023), Molecular docking analysis of quercetin with known CoVid-19 targets. *Bioinformation*. 30;19(11):1081-1085.
6. F. Sherin Rebecca, V. Vidhya Lakshmi, M. Jeyashree, A. Elavarasi & **Rajamanickam Ponnivedha** (2023), Antimicrobial evaluation and molecular docking studies of the combined ethanolic extract of *Mollugo cerviana* and *Mukia maderaspatana*, *Bioinformation* 19(2): 190-195.

BOOK/ CHAPTERS PUBLICATION

1. Dr. A. Sherlin Rosita, Dr. Thomas Jebasingh, **Dr. Pon Nivedha**, Dr. K. Akila, Ms. F. Sherin Rebecca. Introduction to Bioinformation –Book, Alpha International, 2023, ISBN: 978- 93-5762-236-3.
2. **Dr. P. Vijayalakshmi**, Dr. A. Ludas, Dr. P. Dhanalakshmi, Dr. C. Sudha. Code and cells: The synergy of Biotechnology and Bioinformatics. Scientific international publishing home. ISBN 9789361320156
3. **Rajalakshmi Manikkam, Indu Sabapathy, Vijayalakshmi Periyasamy** (2024), Synergistic Effects of Multifunctional Phytochemicals Modulating the Cellular Signal Pathways—as Neuroprotective Therapeutic Approach for Neurodegenerative Disorders, Neuroprotective Effects of Phytochemicals in Brain Ageing, Springer Nature Singapore.
4. **Rajalakshmi Manikkam, Vijayalakshmi Periyasamy, Indu Sabapathy** (2024), Customised Microbiome Restoration Approaches in Older People: Perspectives and Therapeutic Prospects, Gut Microbiome and Brain Ageing: Brain Aging, Springer Nature Singapore.
5. **Manikkam Rajalakshmi, Sabapathy Indu, Periyasamy Vijayalakshmi** (2023), Therapeutic mode action of synthetic compounds and phytochemicals in the molecular mechanisms of phospholipases with respect to cancer, Phospholipases in Physiology & Pathology, Elsevier.
6. **Manikkam Rajalakshmi, Periyasamy Vijayalakshmi Sabapathy Indu** (2023), Identification of potential inhibitor(s) against phospholipase-A2 using Network Pharmacology based approach, Phospholipases in Physiology & Pathology, Elsevier.
7. **Rajalakshmi Manikkam, Periyasamy Vijayalakshmi, Sabapathy Indu**, Balakrishnan Solaimuthu (2023), Biomedical applications of Nanobiosensors in cancer- recent advances and future prospects, Nanosensors in Healthcare Diagnostics, Elsevier.

Sequences Submitted in NCBI GENBANK

S.NO	Authors details	Organism Name	Accession number
2023-2024			
1	Janani,N., Vijayalakshmi,P. and Rajalakshmi,M.	<i>Klebsiella Pneumoniae</i>	PP378521
2	Janani,N., Vijayalakshmi,P. and Rajalakshmi,M	<i>Acinetobacter Schindleri</i>	PP378527
2022-2023			
3	Veronika,R., Vijayalakshmi,P. and Rajalakshmi,M.	<i>Bacillus subtilus</i>	OQ572484
4	Veronika,R., Vijayalakshmi,P. and Rajalakshmi,M	<i>Escherichia coli</i>	OQ572483
5	Veronika,R., Vijayalakshmi,P. and Rajalakshmi,M	<i>Pseudomonas aeruginosa</i>	OQ572484
6	Aarthy,R., Ludas,A. and Ragnathan CBNR,R	<i>Lactiplantibacillus pentosus</i>	OQ472489
7	Anisha,A. and Pramila,M.	<i>Aspergillus fumigatus</i>	OQ472390