

JANAKI. A

janakitncpbpb@gmail.com

Objectives: Interested in working with a challenging environment where I can excel my knowledge in the field of Zoology in a higher mode.

Total Years of Experience : 2 Y at Thiruthangal Nadar College, Dept of Plant Biology

(From July 2019 to Till date)

Educational Qualification :

Ph. D., Zoology [2014-2020], Department of Zoology, Presidency College, University of Madras, Chennai, Tamil Nadu, India. (Awaiting for Viva - Voce)

Thesis Title “PHYTOCHEMICAL SCREENING, IN VITRO ANTIOXIDANT, ANTIMICROBIAL AND ANTICANCER ACTIVITIES OF *MILLINGTONIA HORTENSIS* (L.F), *BAUHINIA TOMENTOSA* (L.) AND *ALBIZIA LEBBECK* (L.) WILLD”

M. Phil., Zoology (75%) [2010-2011], Department of Zoology, University of Madras, Chennai, Tamil Nadu, India.

Thesis Title CRYOPRESERVATION OF SPERMATOOZOA IN THE FRESHWATER FISH *CHANNA STRIATUS* (Bloch, 1793)

M. Sc., Zoology (63%) [2007 - 2008], Department of Zoology, University of Madras, Chennai, Tamil Nadu, India.

B. Sc., Zoology (66%) [2003 - 2006]. Queen Mary’s College, University of Madras, Chennai, Tamil Nadu, India

Technical Skills:

- ✓ Isolation, identification and biochemical characterization of bacteria from different sources
- ✓ Culturing, preservation and maintaining of bacteria
- ✓ Chromatographic techniques (Column chromatography)
- ✓ Isolation, separation and characterization of compound
- ✓ Bioassay techniques (agar and disc diffusion, MIC)
- ✓ Electrophoresis (SDS and Native PAGE)
- ✓ Spectroscopy (UV-vis spectra)
- ✓ ELISA plate reader

Research Publications:

- ✓ Jeyanthi,R. Kaleena. P. K* Babu. M, **Janaki. A**, and Velu. K. 2019. Larvicidal activity of weed *Argyrea nervosa* against three mosquito vectors, *International Journal of Research and Analytical Reviews*, 6(2). 7-17.
- ✓ Sudha Ravi, Kaleena. P. K*, Babu. M, **Janaki. A** and Velu. K, (2019). Antibacterial and antioxidant activity of *Imperata cylindrica* (L.) raeusch. *International Journal of Research and Analytical Reviews*, 6(2)- 21-30.
- ✓ **Janaki, A.**, Kaleena, P.K., Elumalai, D., Velu, K., Babu, M., Sudha Ravi., Hemavathi, M., and Arulvasu, C., 2018. Qualitative and quantitative phytochemical analysis: In vitro studies of antioxidant and anticancer activity of *Bauhinia tomentosa* (L) leaf extracts. *Journal of pharmacognosy and phytochemistry*, 7:5; 2403-2410. (Impact factor:0.255)
- ✓ Sudha Ravi, Kaleena, P.K., Babu, M., **Janaki, A.**, Velu, K., and Elumalai, D., 2018. Phytochemical screening, antioxidant and anticancer potential of *Imperata cylindrica* (L.) Raeusch against human breast cancer cell line(MCF7). *International Journal of Pharmacy and Biological Sciences*, 8,3:938-945
- ✓ Babu, M., Kaleena, P.K.,* **Janaki, A.**, Velu, K., Jeyanthi, R., (2018). Phytochemical profiling and larvicidal potential of common grass *Pennisetum polystachin* against mosquito vectors. *International Journal of Research and Analytical Reviews (IJRAR)*, 5(4); 103-116.
- ✓ Babu, M., Kaleena, P.K.,* **Janaki, A.**, Velu, K., Sudh Ravi., (2018). Larvicidal activity and histopathological alterations effected by *Kyllinga nemoralis* grass weed extracts on the mosquito vectors. *International Journal of Research and Analytical Reviews (IJRAR)*, 5(4); 388-403.
- ✓ **Janaki, A.**, Kaleena, P.K., Elumalai, D., Hemalatha, P., Babu, M., Velu,K., Sudha Ravi, 2017. Phytochemical Screening, Antioxidant and antibacterial activities of *Millingtonia hortensis* (L). *Int. J. of Current. Pharm. Res.* 9(5): 2017. (Impact factor:0.13)
- ✓ Hemalatha. P., Elumalai. D., **Janaki. A.**, Babu. M., Velu. K., Velayutham. K., Kaleena. P.K., 2015. Larvicidal activity of *Lantana camara aculeata* against three important mosquito species. *J.Ento. Zool. Stud.*, 3 (1); 174-181.
- ✓ Velu, K., Elumalai, D.,Hemalatha, P., Babu, M., **Janaki, A.**, Kaleena P. K., 2015. Phytochemical screening and larvicidal activity of peel extracts of *Arachis hypogaea* against chikungunya and malarial vectors. *International Journal of Mosquito Research* . 2 (1): 01-08.

- ✓ Velu.K, Elumalai, D., Hemalatha, P., Babu, M., **Janaki, A.**, Hemavathi, M., Kaleena P.K., 2015. Evaluation of silver nanoparticles toxicity of *Arachis hypogaea* peel extracts and its larvicidal activity against malaria and dengue vectors. Environ Sci Pollut Res. DOI 10.1007/s11356-015-4919-3

Paper Presentation:

NATIONAL & INTERNATIONAL

- Presented a paper “**Plant mediated green synthesis of silver nanoparticles using aqueous leaf extracts of *Millingtonia hortensis* (Linn) against MCF-7 cell line**” on 18th and 19th September, NATCON- 2014.
National Conference on Natural Products as therapeutics. Medical Microbiology, Nanobiology and System biology: Current Scenario & Emerging Trends hosted by PG & Research Departments of Biotechnology & Bioinformatics, Mohamed Sathak College of Arts & Science, Solinganallur, Chennai, Tamil Nadu, India.
- Presented a paper “**Phytochemical screening and antioxidant activities of *Millingtonia hortensis* (Linn)**”, International Seminar on Biotechnology- challenging the challenges of the changing world (BCCCW 2015), Department of Zoology, Plant Biology and Plant Biotechnology, Biochemistry and Applied Microbiology, Justice Basheer Ahmed Sayeed College for women, Chennai, Tamil Nadu, India on 4th and 5th February 2015
- Presented a poster “**Antioxidant and toxicity studies of *Bauhinia tomentosa* (Linn)**” International Symposium on Medicinal Plants and Herbal Drugs in Human and Livestock Wealth A Global Prospective. P.G. & Research Department of Botany (1940-2015, Platinum Jubilee), Pachaiyappa’s College (1831- 2015, 174th year) Chennai, Tamil Nadu, India From 29th to 31st January 2016.
- Presented a paper “**In vitro cytotoxicity activity of *Albizia lebbek* (L) leaf extract against human breast cancer cell line**” XVAZRA International Conference on Recent Advances in Life Sciences. PG& Research Department of Zoology, Plant Biology and Plant Biotechnology, Biochemistry, Ethiraj College for women, Chennai, Tamil Nadu, India From 11th to 13th February 2016.
- Presented a paper “**Cryopreservation of Spermatozoa in the edible freshwater fish *Channa striatus* (Bloch, 1793)**” in the “**National conference on Recent Advances in Aquaculture (NCRAA)**” Conducted by P.G & Research Department of Zoology Sir Theagaraya College, Chennai, Tamil Nadu. On 6th and 7th February 2020.

Book Edited : Nil

Chapters Edited: Nil

FDP: Nil

Seminars/Workshops: ATTENDED

NATIONAL / INTERNATIONAL

1. National Conference on “**Emerging trends in Biological Research**” (NCEBR’11) held on 21st & 22nd February, 2011 at Department of Zoology, University of Madras, Guindy Campus, Chennai, India.
2. **Inter – Collegiate Student Seminar on Recent Advances in Molecular Techniques** Conducted by the Department of Zoology, Madras Christian College, Tambaram, Chennai, Tamil Nadu, India on 11th July 2014.
3. **Workshop on PCR RFLP** hosted by Department of Genetic Engineering SRM University, Tamil Nadu, India on 26th July 2014.
4. **National Conference on “ Bio-Sciences for 21st Century”** (NCBSC), Department of Zoology, Auxilium College, Vellore, TamilNadu, India on 6th February 2015.
5. **National Seminar on An insight into our sight – Radiant Spectrum of Molecular Methods & Diseases in Ophthalmology**, Department of Zoology, Quaid-E-Millath Governments College for Women, Chennai, Tamil Nadu, India on 12th February 2015.
6. **Workshop on Immunobiology Academies’ Lecture** conducted in VELS University Pallavaram, Chennai from 11th to 13th March, 2015.
7. National Seminar on “ **Basic and Applied Immunology**” (NSBAI’16), Department of Zoology, University of Madras, Guindy Campus, Chennai, Tamil Nadu, India on 2nd and 3rd February 2016.
8. “**National Seminar on the Faunal Diversity of Eastern and Western Ghats**” Zoological Survey of India Southern Regional Centre, Chennai, Tamil Nadu, India on 3rd 4th March 2016.
9. “**National Seminar on ‘Current, Past and Future Scenario in Applied Sciences**” School of Science, Tamil Nadu Open University, Chennai, Tamil Nadu, India on 29th July 2016.
10. **Inter-Collegiate PG Seminar on “Recent Advances in Life Science”** , Department of Zoology, Madras Christian College, Tambaram, Chennai, Tamil Nadu, India. on 12th August 2016.
11. **National Conference on Recent Trends in Biotechnology** (Bio Trends-2016) and Annual Meet of the Society for Biotechnologists (India), Department of , Biotechnology, National Institute of Ocean Technology, Chennai, Tamil Nadu, India. on 19th to 21st October, 2016.
12. **National workshop on “ Biodiversity Conservation (BIOCON-2017) ”** Department of Zoology, Centre for Ocean and Coastal Studies, University of Madras, Guindy Campus, Chennai, Tamil Nadu, India. on 2nd & 3rd February, 2017.

13. National Conference on **Integrating Bioinformatics and Nanotechnology in Drug Discovery**”, **Bioinformatics Infrastructure Facility Centre of DBT** Queen Mary’s College (Autonomous) Mylapore, Chennai, Tamil Nadu, India. on 20th to 22nd February 2017.
14. **“State Level Workshop on Bio-instrumentation & Molecular Techniques”** Department of Advanced Zoology and Biotechnology, Chellammal Women’s College, Guindy, Chennai, Tamil Nadu, India. on 11th, 12th October 2017.
15. **“International Conference on Computer Simulations in Natural Sciences”**Department of Sciences, Presidency College, Chepauk, Chennai, Tamil Nadu, India. on 4th to 6th April, 2018.
16. **“National conference on emerging role of nanomaterials in health care”** Department of Microbiology and Biotechnology, Bharath Institute of Higher education and Research, Solavoyal, Chennai 600 0126. On 19th February 2020.

Refresher / Orientation course: Nil

Awards & Recognitions : Nil

Achievements : Nil

(JANAKI. A)