



DR. MANORENJITHA MALAR A/P SIVANATHAN

PKTAAB RESEARCH OFFICER PROFILE



RESEARCH PROFILE

- Scopus ID : 55969487700
- Researcher ID: ADP-8692-2022
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- Google Scholar ID : YBxJ8EtOsAAAAJ



EXPERTISE

- Entomology
- Vector Control (Bio-efficacy testing)
- Ethnopharmacology



RESEARCH INTEREST

- Vector Biology, Ecology & Control
- Plant extraction & analysis
- Toxicity Study using Animal Model



RESEARCH GRANT

1. Phytochemical Analysis and Repellency Efficacy of *Cupressus macrocarpa* (Lemon Cypress) and *Artemisia scoparia* (Redstem Wormwood) Essential Oils Against Dengue Vectors *Aedes* sp. Mosquitoes (2022-2025). Co-researcher.
2. Laboratory evaluation of repellent products, Insect Repellent Spray A, Insect Repellent Lotion B and Insect Repellent Spray C in comparison with the Malaysian Standard FIK Repellent against *Aedes aegypti* using the Bioassay Method for Mosquito Repellent on Human Skin (9 hours observation) (2023-2024). Principal Investigator.
3. A laboratory evaluation of household insecticide product, Sample A in comparison with the Malaysian Standard FIK Aerosol against *Aedes aegypti* mosquitoes using the Room Size Chamber method (2021-2023). Principal Investigator
4. Larvicidal, Sub-lethal Effect and Biochemical Reaction of *Vitex Negundo* Leaves Extracts Against *Aedes aegypti* (Linn.) Larvae (2019-2022). Principal Investigator.



SKILLS

- Statistical analysis using SPSS
- Study Director (OECD GLP)
- Technical Manager (IEC ISO 17025)



QUALIFICATION

Ph.D (Applied Entomology)
Universiti Sains Malaysia (2017)
M.Sc (Applied Entomology)
Universiti Sains Malaysia (2006)
B.Sc (Hons) in Biology
Universiti Putra Malaysia (2001)



CONTACT

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TOP 10 RESEARCH PUBLICATIONS

1. **M. S. Manorenjitha**, A. B. Noor Hazwani, A. C. Rus, A. Hamdan, O. B. Awosolu, Z. S. Yahaya. Phytochemical investigation of essential oil and organic extracts of *Vitex trifolia* L. and their larvicidal activities against *Aedes aegypti* larvae in Penang, Malaysia. *Nigerian Journal of Parasitology* 46(1):122-133
2. Sabri, N., Kamaldin, J., **Sivanathan, M.**, Rasli R. Study on the neurotoxicity of the kenaf cellulose nanofiber impregnated with temephos (KCN+T) aerosols against the female *Aedes aegypti* mosquitoes in the glass chamber. *Tropical Biomedicine* 41(3): 1-7.
3. **Manorenjitha, M.S.** Zairi, J, Ling, S.K., Mailina, J., and Nuziah, H. Repellency effect of white flesh *Citrus grandis* Osbeck fruit peel extracts against *Aedes aegypti* (Linn.) mosquitoes. *International Journal of Mosquito Research* 4(4 Part B): 88-94.
4. **Manorenjitha, M.S.** Zairi, J, Ling, S.K., Mailina, J., and Nuziah, H. Toxicity of white flesh *Citrus grandis* Osbeck fruit peel extracts against *Aedes aegypti* (Linnaeus) larvae and its effect on non-target organisms. *International Journal of Mosquito Research* 4(4 Part A): 49-57.
5. **Manorenjitha, M.S.** Zairi, J, Ling, S.K., Mailina, J., and Nuziah, H. Chemical constituents of the fruit peel from white flesh *Citrus grandis* (L.) Osbeck. *International Journal of Pharma and Bio Sciences* 7(1): 267-278
6. **Manorenjitha, M.S.** and Zairi, J. The adaptation of field collected *Aedes aegypti* (L.) and *Aedes albopictus* (Skuse) in laboratory condition. *International Journal of Life Science and Medical Research* 5(4):25-30
7. **Manorenjitha, M.S.**, Norita, A.K., Adillah, A.K. and Asmawi, M.Z. Chemical profile of *Ficus religiosa* (Linn.) stem. *International Journal of Life Science and Medical Research* 4(3): 32-37
8. **Manorenjitha, M.S.** WHO/TDR Asian Biosafety Training 2009: Genetically Modified Mosquitoes. *Biohealth Science Bulletin* 5(1): 9-10
9. **Manorenjitha, M.S.**, Norita, A.K., Norhisham, S. and Asmawi, M.Z. GC-MS Analysis of bioactive components of *Ficus religiosa* (Linn.) stem. *International Journal of Pharma and Bio Sciences* 4(2): 99-103
10. **Manorenjitha Malar, S.** and Zairi, J. Nutrition and overcrowding effects on larval development and fecundity of female *Aedes albopictus* (Skuse). *International Journal of Life Science and Medical Research* 2 (4):63-67