DR SITI AMINAH AHMED

PKTAAB RESEARCH OFFICER PROFILE

RESEARCH PROFILE

- Scopus ID: 55313718200
- Researcher ID: B-7725-2014
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EXPERTISE

- Biotechnology
- Molecular Biology
- Infectious Diseases

RESEARCH INTEREST

- Transcriptomic analysis of bacteria
- Vaccine development
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SKILLS

- Molecular Techniques
- Expressions system
- NGS

RESEARCH GRANT

1. USM STGQ. Identification of Chikungunya virus (CHIKV) peptide antigens in immune-response cell line model (2025-2026). Principal Investigator.
2. FRGS. Elucidating novel regulatory network of microRNAs related to autophagy in breast cancer for prognostic risk stratification and therapeutics (2024-2026). Co-researcher.
3. PRGS. Development of an aptamer-based lateral flow assay for the detection of Leptospira (2023-2025). Co-researcher.
4. e-Science Fund. Tracing porcine DNA in processed food: A strategy for halal food quality control (2015-2017). Principal Investigator.

QUALIFICATION

Ph. D (MOLECULAR BIOLOGY)
Universiti Sains Malaysia (2020)
M. Sc (MOLECULAR VIROLOGY)
Universiti Malaysia Sarawak (1999)
B. Sc (HONOURS) (BIOTECHNOLOGY)
Universiti Sains Malaysia (1996)

CONTACT

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TOP 10 RESEARCH PUBLICATIONS

1. Hanis Nabilah Mohd Nazman, Nurfatin Husna Suhaime, Ewe Seng Ch'ng, Mohammad Syamsul Reza Harun, Muhammad Amir Yunus, Siew Kit Ng, **Siti Aminah Ahmed**, Asmida Isa. *In silico* prediction of multi-epitope vaccine candidates targeting Chikungunya virus structural proteins in Malaysian populations. AsPac J Mol Biol Biotechnol 33, 289-300.
2. Hong-Leong Cheah, Marimuthu Citartan, Li-Pin Lee, **Siti Aminah Ahmed,** Mohd Zaki Salleh, Lay Kek Teh & Thean-Hock Tang. Exploring the transcription start sites and other genomic features facilitates the accurate identification and annotation of small RNAs across multiple stress conditions in *Mycobacterium tuberculosis*. Funct Integr Genomics 24, 160.
3. Xue Chi Teng, See Yin Ang, Marimuthu Citartan, Thean Hock Tang, **Siti Aminah Ahmed.** Simple approach for expression and rapid purification of *Taq* DNA polymerase in three *Escherichia coli* strains**.** AsPac J Mol Biol Biotechnol 31, 45-52.
4. Hong Leong Cheah, **Siti Aminah Ahmed** & Thean Hock Tang. Transcription start site mapping and small RNA profiling of *Leptospira biflexa* serovar Patoc. World J Microbiol Biotechnol 39, 104.
5. Xing Yuan Tan, Marimuthu Citartan, Suresh Venkata Chinni, **Siti Aminah Ahmed**, Thean Hock Tang. Biocomputational identification of sRNAs in *Leptospira interrogans* serovar Lai. Indian J Microb 63(1):33-41.
6. Lee Lee Tan, **Siti Aminah Ahmed**, Siew Kit Ng, Marimuthu Citartan, Carsten A. Raabe, Timofey S. Rozhdestvensky, Thean Hock Tang. Rapid detection of porcine DNA in processed food samples using a streamlined DNA extraction method combined with the SYBR Green real-time PCR assay. Food Chemistry 125654.
7. Prabu Siva Sankar, Marimuthu Citartan, **Ahmed Siti Aminah**, Boris V. Skyrabin, Timofey S. Rozhdestvensky, Goot Heah Khor, Thean Hock Tang. A simple method for in-house *Pfu* DNA polymerase purification for high-fidelity PCR amplification. Iranian J Microb**.** 11(2):181-186.
8. Hong-Leong Cheah, Carsten A Raabe, Li-Pin Lee, Timofey S Rozhdestvensky, Marimuthu Citartan, **Siti Aminah Ahmed**, Thean-Hock Tang. Bacterial regulatory RNAs: complexity, function, and putative drug targeting. Crit Rev Biochem & Mol Biol *53*(4), 335–355.
9. Auni A. Hamid, **Siti Aminah Ahmed**, Shahrul Hamid. Regulation of LDLR, Bcl-2 and FASN expressions by oxidized low density lipoprotein in estrogen receptor positive breast cancer cells. Curr Pharmacogenomics Person Med. 16(2):124-139.
10. Kanniappan P, **Siti Aminah Ahmed**, Rajasekaram G *et al*. RNomic identification and evaluation of npcTB_6715, a non-protein coding RNA gene as a potential biomarker for the detection of *M. tuberculosis*. J Cell Mol Med. 21(10):2276-2283.