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Population density, antibiotics resistance and biofilm formation of *Vibrio* species isolated from aquatic sources

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Samples of sea water and sediment were collected from different locations in Kedah and Perlis. Samples were serially diluted and plated on Thiosulfate-citrate-bile salts-sucrose (TCBS) agar for occurrence and population densities. Twenty four presumptive *Vibrio* were randomly selected further identified using both biochemical and molecular methods. Hierarchical clustering analysis of the bacteria was based virulence factors and antibiotic resistance profiles. Results obtained from this study showed that *Vibrio* species isolated from sea water was highest in Sungai Pial (1.62×10^8 CFU/mL). However, Pulau Bunting had the highest population density of *Vibrio* (1.4×10^8 CFU/mL) isolated from sediment. It was also observed that *Vibrio* species isolated from sea water was highest in Kampong Sungai Baru (1.45×10^8 CFU/mL). Sungai Padang had the highest population density of *Vibrio* (2.64×10^8 CFU/mL) isolated from sediment. There was no significant difference in term of population between seawater and sediment from the areas ($df = 10$, $t = -0.756$, $p > 0.05$).

Biography

Olumide A Odeyemi is currently a doctoral (PhD) candidate at the Institute for Marine and Antarctic Studies, University of Tasmania, Australia. He had background in microbiology from Nigeria and completed his masters in marine science majoring in aquatic microbiology and biotechnology at the National University of Malaysia. He also worked as Graduate Research Assistant at the same university prior to commencing his doctoral study at University of Tasmania. His research interest focuses on predictive food microbiology, aquatic microbiology, microbial food safety, host-pathogen interaction, sustainable aquaculture, Aquaponics, seafood safety and quality. He has published papers and presented at conferences in his research areas of interest.

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