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| **Research Theme: Microbiology, drug discovery, -omics** |
| **PhD Research Project Title: Antibiotic producing bacteria in Singapore’s corals** |
| **Scholarship category (Please indicate the type of scholarship for this project): A & C**   1. **SBS Research Student Scholarship (for SBS faculty only)** 2. **Grant Scholarship (NMRC, MOE Tier 2, NRF, NTU Central RSS etc)** 3. **Others** |
| **Principal Investigator/Supervisor: Rebecca Josephine CASE** |
| **Co-supervisor/ Collaborator(s) (if any):** |
| **Project Description**  **a) Background:**  Singapore’s coral reefs have shown greater resilience to rising ocean temperature compared to other reefs worldwide and this project aims to describe the role bacteria play in conveying this resilience to our reefs. We have identified a commonly occurring group of antibiotic-producing bacteria in Singaporean corals. This project aims to describe the role of these bacteria and the antibiotic in protecting or corals from pathogens.  **b) Proposed work:**  This project will involve:  Field training (scientific diving is encouraged but not required for the project), PAM fluorometry, bacterial isolation, antibiotic screening, genomics, molecular community analysis, manipulative coral holobiont experiments at St Johns Island National Marine Laboratory  **c) Preferred skills: computation work on data analysis would be a big plus, but not indispensable**  Scientific diving is an asset but not a requirement (training possible). The ability to swim is required. |
| **Supervisor contact:**  **If you have questions regarding this project, please email the Principal Investigator:** |
| **SBS contact and how to apply:**  Associate Chair-Biological Sciences (Graduate Studies) : [AC-SBS-GS@ntu.edu.sg](mailto:AC-SBS-GS@ntu.edu.sg)  Please apply at the following:  **Application portal:** <https://venus.wis.ntu.edu.sg/GOAL/OnlineApplicationModule/frmOnlineApplication.ASPX> |