



**MOLECULAR DETECTION OF PATHOGENIC *Leptospira* spp. IN RATS
CAUGHT IN MUNICIPAL MARKETS OF CAVITE**

A Research Presented to the
Biological Sciences Department
College of Science and Computer Studies
De La Salle University-Dasmariñas
City of Dasmariñas, Cavite

In Partial Fulfilment of the Requirements for the Degree
Bachelor of Science in Biology Major in Human Biology

HAO, JIMSYBILLA S.

JEONG, MINAH

JUNE 2017



ABSTRACT

The study aimed to detect leptospires from rats caught in different public markets in Dasmariñas City, Cavite, Philippines. The rats were sedated and euthanized to extract their kidneys which were enriched in Korthoff's medium for 28 days. The samples were subjected to culture and *gyrB* PCR. The results showed that of the 29 samples, 5 showed positive results to culture. However, no *Leptospira* was detected using *rfl*-PCR. This indicates that the rats obtained were not infected with leptospires.

Keywords: Molecular detection, Leptospira spp., gyrB gene, rfl gene, Polymerase Chain Reaction