



**DETECTION OF *Sarcocystis* spp. IN DIFFERENT TYPES OF MUSCLES  
OF *Mus musculus* (HOUSE MOUSE) FROM RESIDENTIAL AREAS IN  
THE CITY OF DASMARIÑAS, CAVITE**

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

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

**ASA TANAKA**

**LOUISE LORRAINE Z. TOLEDO**

May 2016



## ABSTRACT

This study was conducted to determine the presence of *Sarcocystis* spp. in different types of muscles of the *Mus musculus* (house mouse) from residential areas in the city of Dasmariñas, Cavite. Collection sites include three different residential areas in Dasmariñas, Cavite. Eight house mice per site were collected through purposive random sampling in three areas. The collection was done using a cage type of mousetraps made of wire with food bits such as dried fish, fruits and bread filled with peanut butter. Examination of the macroscopic abnormalities of the muscles was observed prior to dissection. The tongue, heart and esophagus were removed from the body of the house mouse for histopathological examination. The sections were stained with standard histologic H & E staining technique, which use haematoxylin and eosin, for the observation under the light microscope. Observation was done in De La Salle University – Dasmariñas through the use of the guide to observing histological characteristics of *Sarcocystis* spp. From the 23 house mice examined, there is no infection of the skeletal, cardiac and smooth muscles detected. There is no association of infection determined due to none of the house mice were infected to the *Sarcocystis* spp. in their muscles.

*Key words: Parasitology, prevalence, skeletal muscle, cardiac muscle, smooth muscle, rodents, apicomplexa, sarcocyst, sarcocystosis, sarcosporidiosis, zoonosis*