

# NAOHISA WADA

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**Master student 2012 to 2013**

**School of Marine and Tropical Biology**

**Nihon University (overseas research scholarship)**

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**Prof. Bette Willis (JCU)**

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**Dr. Nobuhiro Mano (Nihon University)**

## **Histological studies for coral disease**

Naohisa Wada completed his BSc in Marine Bioresources in Kanagawa, Japan, he continued working towards his Master's degree at Nihon University. Through his research, Naohisa has surveyed coral disease at Okinawa, applying improved technique for coral histology under supervision of Dr. Nobuhiro Mano. In 2012, Naohisa took up an internship in Townsville to further his study of coral disease.

Coral reefs have been degraded on a global scale. In order to manage these valuable habitats effectively, it is essential to understand coral disease.

Naohisa's research aims to use histological techniques to record specific effects such as host response and identify bacteria infected tissue associated with coral disease such as White Syndrome and Black Band Disease.

Histological analysis records signs of pathogens associated with lesions in infected tissue. These signs identify the exact location at micro scale in progressive disease.

This work will be helpful for diagnosis and further investigation into coral disease pathogens.

Naohisa has shown how non-specific binding on Fluorescence In Situ Hybridization technique can detect an incorrect or specific signal. Using this method, he conducted analysis to detect bacteria in lesions of White Syndrome. He located the tissue infected by bacteria related disease as part of Joseph Pollock's PhD.

