

# 琉球大学学術リポジトリ

## Stoloniferous octocorals of the north-western Pacific : taxonomy, diversity and phylogenetics

メタデータ	言語: 出版者: 琉球大学 公開日: 2020-05-21 キーワード (Ja): キーワード (En): 作成者: メールアドレス: 所属:
URL	<a href="http://hdl.handle.net/20.500.12000/45848">http://hdl.handle.net/20.500.12000/45848</a>

令和2年2月3日

琉球大学大学院

理工学研究科長 殿

論文審査委員

主査 氏名 James Davis REIMER 印

副査 氏名 成瀬 貫 印

副査 氏名 戸田 守 印

## 学位（博士）論文審査及び最終試験の終了報告書

学位（博士）の申請に対し、学位論文の審査及び最終試験を終了したので、下記のとおり報告します。

### 記

申請者	専攻名 海洋環境学 氏名 Lau, Yee Wah 学籍番号 <span style="background-color: black; color: black;">XXXXXXXXXX</span>	
指導教員名	James Davis REIMER	
成績評価	学位論文 <input checked="" type="checkbox"/> 合格 <input type="checkbox"/> 不合格	最終試験 <input checked="" type="checkbox"/> 合格 <input type="checkbox"/> 不合格
論文題目	Stoloniferous octocorals of the north-western Pacific: taxonomy, diversity and phylogenetics (北西太平洋産ウミツタ類の分類, 系統, 多様性に関する研究)	
審査要旨 (2000字以内)	<p>The candidate set out to explore an understudied group of octocorals, the subordinal group Stolonifera (Cnidaria: Anthozoa: Octocorallia). In general, octocorals have received little research attention compared with their hard coral cousins, and this is particularly true of the Stolonifera. Additionally, recent research has shown that octocorals may be increasing in abundance as some groups appear to be relatively stronger against the effects of climate change compared to hard corals. Thus, a clear taxonomic understanding of their species and diversity is needed.</p>	

(次頁へ続く)

## 審査要旨

In her thesis, the candidate examined the diversity of Stolonifera using molecular and morphological examinations, utilizing specimens from Okinawa, Palau, and Malaysia. Her results showed many new findings, including among the first octocoral species specifically described from mesophotic depths (Chapter 4), variation in endosymbionts within the same octocoral species from Iriomote and Okinawa Islands (Chapter 3), and the formal description of several taxa (Chapters 3-7). Additionally, many of these Stolonifera taxa were shown to completely lack sclerites, calcium carbonate structures usually used in octocoral identification, indicating that molecular data and other methods of species delineation are of increasing importance in understanding octocoral diversity.

These results are of academic importance as our understanding of the diversity of octocorals has been greatly advanced by her work. The candidate's work can therefore be judged as being of an excellent academic level.

The candidate's publication history related to this thesis more than meets graduation requirements, with four first author peer-reviewed papers, all in international journals. The candidate gave a final thesis presentation (=final examination) on February 3, 2020, in the Science Collaborative Building Room 102, from 10:00 a.m. to 11:00 a.m. in front of all three members of the Committee. This presentation was open to the public, and attended by many people from both inside and outside the university. In her presentation she discussed her major results. Overall, the candidate talked for approximately 40 minutes, and then appropriately answered numerous questions related to her thesis and research field for 20 minutes. The Committee then met on February 3, 2020, from 12:10 p.m. to 12:45 p.m., and discussed and judged the candidate's thesis, and her final presentation and answers to questions, as meeting graduation requirements. Thus, based on the above results, for these reasons, the Committee unanimously recommended "Pass" for the candidate.