Taiwania, 42(2): 104-108, 1997

to Macau.

Botany, National Taiwan University.

Myxomycetes of Macau (I)

Chao-Hsuan Chung (1), Chin-Hui Liu (1,2) and Wai-Chao Leong (1)

(Manuscript received 7 March 1997; accepted 10 May 1997)

ABSTRACT: By using moist chamber technique, we collected the fruiting bodies of Myxomycetes developed on bark of living trees and plant litter from Macau in 1993 and 1994. Ten taxa are reported here. They are Clastoderma debaryanum, Collaria arcyrionema, Comatricha longipila, Cribraria confusa, Didymium nigripes, Echinostelium paucifilum, Licea scyphoides, Physarum cinereum, P. compressum and Stemonitis virginiensis. All taxa are new to Macau.

KEY WORDS: Macau, Myxomycetes.

INTRODUCTION

17.41 square kilometers. The peninsula occupies 6.54 square kilometers while the islands Taipa and Coloane are 3.78 and 7.09 square kilometers respectively. The vegetation of Macau is largely artificial. Weather conditions of Macau vary a great deal from year to year.

Macau is situated on the southeastern coast of China (22° 14' N, 113° 35' E), about 65 kilometers west of Hong Kong. It comprises a peninsula and two islands. The total area is

Rainfall may range from 1250 to 2190 mm. Typhoons visit Macau almost every year. As Kwangtung (Guangdong), Hainan Island, Hong Kong and Macau are closely related

in geography, fauna and flora, it is important to view the myxomycete biota of this region as an integrity. More than sixty species of Myxomycetes are reported from this region (Champion & Mitchell, 1980; Ing, 1987; Li & Li, 1989; Teng, 1964; Teng & Teng, 1935), but only one species, Arcyria major (G. Lister) Ing, have been reported from Macau (Li & Li. 1989). By using the moist chamber technique, we report ten species of Myxomycetes as new

MATERIALS AND METHODS

Field collections were made in February, July and September, 1993 and February, 1994 Bark and the plant litter collected were placed in small plastic bags and stored at room temperature (ca. 25°C) after being carried back to the laboratory prior to processing in moist

chamber cultures. Moist chamber cultures were processed according to Chiang and Liu (1991). Specimens are deposited in the Herbarium of Mycology Laboratory, Department of

- 1. Department of Botany, National Taiwan University, Taipei 106, Taiwan, Republic of China.
- 2. Corresponding author.

June, 1997 Chung et al.: Myxomycetes of Macau 105 RESULTS The abbreviation "mc" stands for moist-chamber culture and the dates after "mc" indicate the duration of culture. 碎皮黏菌 Clastoderma debaryanum Blytt, Bot. Zeit. 38: 343. 1880. MACAU, Macau Peninsula, Colina de Mong Ha (望廈山), Leong WCL271 (mc), bark of unidentified tree collected on 18 IX 1993. Collaria arcyrionema (Rostafinski) Nannenga-Bremekamp, Proc. K. Ned. Akad. Wet., Ser C 70: 209. 1967. 光孢項圈黏菌 MACAU, Macau Peninsula, Colina de Mong Ha, Leong WCL280 (mc 21 XI 1993 - 26 II 1994), bark of unidentified tree collected on 18 IX 1993. Comatricha longipila Nannenga-Bremekamp, Acta Bot. Neerl. 11: 31. 1962. 長絲髮黏菌 MACAU, Macau Peninsula, Colina de Mong Ha, Leong WCL167 (mc 21 XI- 6 XII 1993), fallen twig collected on 18 IX 1993. Cribraria confusa Nannenga-Bremekamp & Yamamoto, Proc. K. Ned. Akad. Wet., Ser. C 86: 212, 1983. 迷篩囊黏菌 MACAU, Macau Peninsula, "Mononha Russa" Garden (螺絲山花園), Leong WCL163 (mc 21 - 28 XI 1993), bark of *Livistona* sp. collected on 17 VII 1993.

MACAU, Macau Peninsula, Colina de Mong Ha, Leong WCL278 (mc 21 XI 1993 - 23 I 1994), bark of Celtis sinensis Persoon collected on 18 IX 1993.

Echinostelium paucifilum Whitney, Mycologia 72: 974. 1980.

小刺絲黏菌

MACAU, Macau Peninsula, Colina de Mong Ha, Leong WCL166a (mc 21 XI - 6 XII 1993), bark of Pinus massoniana Lamb. collected on 18 IX 1993.

黑足鈣皮黏菌

Didymium nigripes (Link) Fries, Syst. Myc. 3: 119, 1829.

Merr. collected on 20 II 1993.

Physarum cinereum (Batsch) Persoon, Neues Mag. Bot. 1: 89, 1794.

灰絨泡黏菌

Physarum cinereum (Batsch) Persoon, Neues Mag. Bot. 1: 89. 1794. 灰絨泡黏菌 MACAU, Macau Peninsula, Colina de Mong Ha, Leong WCL272 (mc 21 XI 1993 - 3 I 1994), bark of Delonix regia (Boj.) Raf. collected on 18 IX 1993.

TAIWANIA Vol. 42, No. 2
Physarum compressum Albertini & Schweinitz, Consp. Fung.: 97. 1805. 扁絨泡黏菌

Leucaena sp. collected on 18 IX 1993.

MACAU, Macau Peninsula, Colina de Mong Ha, Leong WCL169 (mc 21 XI - 11 XII 1993), twig of

小髮網黏菌

MACAU, Macau Peninsula, "Mononha Russa" Garden, *Leong WCL168* (mc 21 XI - 10 XII 1993), bark of unidentified tree collected on 17 VII 1993.

DISCUSSION

During the past, very few studies have been made on Myxomycetes of Macau. Now the number of Macau Myxomycetes adds up to eleven species. Since most Myxomycetes are

Stemonitis virginiensis Rex, Proc. Acad. Phila. 43: 391. 1891.

Physarum cinereum, and Stemonitis virginiensis are hitherto unreported from Kwangtung (Guangdong) - Hainan Island - Hong Kong - Macau region.

ACKNOWLEDGEMENT

The authors would like to thank Dr. Jim Clark of University of Kentucky for valuable comments. We also appreciate Dr. Trevor Goward of University of British Columbia for

thought to be cosmopolitan distributed, further exploration will undoubtly add more information about Myxomycetes of Macau. Among the ten species reported in this contribution, Comatricha longipila, Cribriaria confusa, Echinostelium paucifilum,

checking English usage.

LITERATURE CITED

Champion, C. L. and D. W. Mitchell. 1980. Some Myxomycetes collected in Hong Kong. Bull. Br. mycol. Soc. 14: 135-137.

Chiang, Y.-C. and C.-H. Liu. (1991) Corticolous Myxomycetes of Taiwan: On the bark of *Pinus* trees from central and northern Taiwan. Taiwania 36: 248-264.
 Ing, B. 1987. Myxomycetes from Hong Kong and southern China. Mycotaxon 30: 199-201

Ing, B. 1987. Myxomycetes from Hong Kong and southern China. Mycotaxon 30: 199-201. Li, Y. and H.-Z. Li. 1989. Myxomycetes from China. 1. A checklist of Myxomycetes from

China. Mycotaxon 35: 429-436.

eng, S.-C. 1964. Myxomycetes In: Fungi of China Pp. 5-46. Science Press. Beijing

Teng, S.-C. 1964. Myxomycetes. In: Fungi of China. Pp. 5-46. Science Press, Beijing. Teng, S.-C. and K.-L.Teng. 1935. Additional slime-molds from China. Sinensia 6: 118-127.

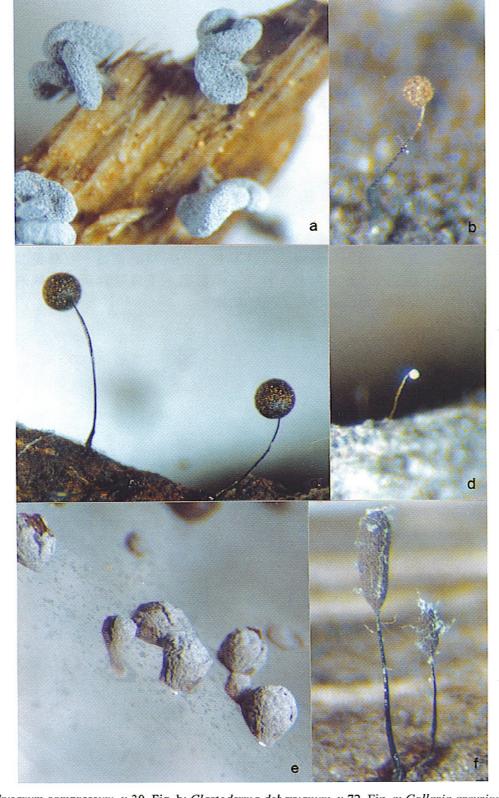


Fig. a: Physarum compressum, x 30. Fig. b: Clastoderma debaryanum, x 72. Fig. c: Collaria arcyrionema, x 30. Fig. d:. Echinostelium paucifilum, x 72. Fig. e: Physarum cinereum, x 30. Fig. f: Comatricha longipila, x 45.

Vol. 42, No. 2

澳門黏菌(一)

鍾兆玄(1)、劉錦惠(1,2)、梁慧舟(1)

(收稿日期:1997年3月7日;接受日期:1997年5月10日)

摘

及小髮網黏菌。所報導之分類群均為澳門新記錄。

我們應用濕室培養法,從民國82、83年採自澳門的活樹樹皮與枯枝落葉中採得黏 菌的子實體。本文報導下列各分類群:碎皮黏菌、光孢項圈黏菌、長絲髮黏菌、迷篩 囊黏菌、黑足鈣皮黏菌、小刺絲黏菌、杯狀無絲黏菌、灰絨泡黏菌、扁絨泡黏菌,以

要

關鍵詞:黏菌,澳門。

1. 國立臺灣大學植物學系,臺北市106,臺灣,中華民國。

2. 通訊聯絡員。