

## NOTES ON HOST PLANTS OF *CEPHALEUROS* *VIRESCENS* NEW FOR TAIWAN

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### Abstract

This paper lists 69 species of plants dispersed in 33 families and 52 genera as new host plants of *Cephaluros virescens* Kunze for Taiwan.

*Cephaluros virescens* Kunze is the most studied species of plant pathogenic algae and is widely distributed in Africa, America, Asia, Australia and Europe (Joubert and Rijkenberg, 1971). It has a very wide host range. For example, Batista and Lima (1949) in Pernambuco, Brazil, recorded *C. virescens* on 448 hosts, including members of such widely divergent families as the Palmaceae, Liliaceae, Gramineae, Rosaceae, Solanaceae, Euphorbiaceae and Cucurbitaceae. To my knowledge, only 7 plants have been reported as hosts of *C. virescens* in Taiwan. These plants are tea plant (Anonymous, 1979), citrus (Lo, *et al.* 1952), mango (Chen, 1978), guava (Chen, 1978), wax-apple (Chen, 1978), oiltea camellia (Hsieh, 1980), and common camellia (Hsieh, 1981). According to the author's survey, *C. virescens* is widely distributed in Taiwan and attacks many kinds of plants. In this paper, the author lists 69 species of plants dispersed in 33 families and 52 genera as new host plants of *C. virescens* for Taiwan. They are listed as follows.

### ACERACEAE (槭樹科)

1. *Acer albopurpurascens* Hay.; (Flying moth tree, 樟葉槭)  
Specimen:—Hualien Hsien: Tienhsiang (天祥)/1982.4.2.

### AMPELIDACEAE (葡萄科)

2. *Cayratia japonica* (Thunb.) Gagnep.; (Treebine, 虎葛).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.
3. *Tetrastigma formosanum* (Hemsl.) Gagnep.; (Taiwan tetrastigma, 三葉崖爬藤).

Specimens:—Miaoli Hsien: Cholan (卓蘭)/1981.3.18.

—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.

4. *Tetrastigma umbellatum* (Hemsl) Nakai; (Alishan tetrastigma, 臺灣崖爬藤).

Specimen:—Taipei City: Yangmingshan (陽明山)/1980.4.12.

ANACARDIACEAE (漆樹科)

5. *Rhus succedanea* Linn.; (Wax-tree, 山漆)

Specimen:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.

ANNONACEAE (番荔枝科)

6. *Fissistigma oldhamii* (Hemsl) Merr.; (Oldham fissistigma, 毛瓜馥木).

Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.

APOCYNACEAE (夾竹桃科)

7. *Ecdyanthera rosea* Hook. et Arn.; (Sour creeper, 酸藤).

Specimens:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.

—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.

8. *Trachelospermum jasminoides* (Lindl.) Lem.; (Fetid star jasmine, 臺灣白花藤).

Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.

ARALIACEAE (五加科)

9. *Schefflera octophylla* (Lour.) Harms; (Common schefflera, 江某)

Specimens:—Hsinchu Hsien: Kuanhsih (關西)/1979.12.28.

—Miaoli Hsien: Cholan (卓蘭)/1981.3.18.

—Nantow Hsien: Meiyuan (眉原)/1982.2.16.

CAESALPINIACEAE (蘇木科)

10. *Bauhinia championii* Benth.; (Champion bauhinia, 菊花木)

Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.

CHLORANTHACEAE (金粟蘭科)

11. *Sarcandra glabra* (Thunb.) Nakai; (紅果金粟蘭).

Specimen:—Nantow Hsien: Meiyuan (眉原)/1982.2.18.

DAPHNIPHYLLACEAE (交讓木科)

12. *Daphniphyllum glaucescens* Blume subsp. *Oldhamii* (Hemsl) Huang; (Oldham daphniphyllum, 奧氏虎皮楠).

Specimens:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.

—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.

## ELAEOCARPACEAE (杜英科)

13. *Elaeocarpus japonicus* Sieb. et Zucc.; (Japanese elaeocarpus, 薯豆).  
Specimen:—Miaoli Hsien: Cholan (卓蘭)/1981.3.18.
14. *Elaeocarpus sylvestris* (Lour.) Poir.; (Common elaeocarpus, 杜英).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.

## EUPHORBIACEAE (大戟科)

15. *Bischofia javanica* Blume; (Autumn maple tree, 茄冬).  
Specimen:—Miaoli Hsien: Cholan (卓蘭)/1981.3.17.
16. *Bridelia balansae* Tutch.; (Prickly bridelia, 刺杜密).  
Specimens:—Miaoli Hsien: Cholan (卓蘭)/1981.3.17.  
—Nantow Hsien: Meiyuan (眉原)/1982.2.16.
17. *Bridelia monoica* (Lour.) Merr.; (Pikpoktsai bridelia, 土密樹).  
Specimen:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.
18. *Croton cascarilloides* Raeush.; (Cuming croton, 葉下白).  
Specimens:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.
19. *Glochidion acuminatum* Muell.-Arg.; (Hayata glochidion, 裏白饅頭果).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.
20. *Glochidion rubrum* Blume; (Common glochidion, 細葉饅頭果).  
Specimens:—Taipei City: Neihu (內湖)/1981.3.13.  
—Nantow Hsien: Houwanta (後萬大)/1981.11.10.  
—Nantow Hsien: Meiyuan (眉原)/1982.2.16.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.
21. *Glochidion zeylanicum* (Gaertn.) A. Juss.; (Hongkong glochidion, 錫蘭饅頭果).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.

## FAGACEAE (殼斗科)

22. *Cyclobalanopsis glauca* (Thunb.) Oerst.; (Glaucous oak, 青剛櫟).  
Specimens:—Nantow Hsien: Houwanta (後萬大)/1981.11.10.  
—Nantow Hsien: Meiyuan (眉原)/1982.2.16.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.
23. *Pasania glabra* (Thunb.) Oerst.; (Smoothleaf tanoak, 柯).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.
24. *Pasania konishii* (Hay.) Schott.; (Konishi tanoak, 小西氏石櫟).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.

## HAMAMELIDACEAE (金縷梅科)

25. *Eustigma oblongifolium* Gardn. et Champ.; (Oblong-leaved eustigma, 秀柱花).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.

## HYDRANGEACEAE (八仙花科)

26. *Hydrangea chinensis* Maxim. var. *chinensis* (Maxim.) McClint.; (Chinese hydrangea, 華八仙),  
Specimen:—Nantow Hisen: Meiyuan (眉原)/1982.2.16.

## LAURACEAE (樟科)

27. *Actiondaphne pedicellata* Hayata; (Taiwan actinodaphne, 小梗黃肉楠).  
Specimens:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.
28. *Cinnamomum camphora* (L.) Nees et Eberm.; (Camphor tree, 樟樹).  
Specimens:—Miaoli Hsien: Cholan (卓蘭)/1981.3.17.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.
29. *Cinnamomum insulari-montanum* Hay.; (Taiwan cinnamon, 山肉桂).  
Specimen:—Nantow Hsien: Houwanta (後萬大)/1981.11.10.
30. *Lindera communis* Hemsl.; (Chinese spice bush, 香葉樹).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.
31. *Lindera strychnifolia* (Sieb. et Zucc.) F. Vill.; (Black medicine, 天台烏藥).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.
32. *Machilus kusanoi* Hay.; (Large-leaved machilus, 大葉楠).  
Specimens:—Miaoli Hsien: Cholan (卓蘭)/1981.3.18.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.  
—Nantow Hsien: Meiyuan (眉原)/1982.2.16.
33. *Machilus thunbergii* Sieb. et Zucc.; (Red machilus, 紅楠).  
Specimens:—Miaoli Hsien: Cholan (卓蘭)/1981.2.  
—Taipei City: Yangmingshan (陽明山)/1980.4.12.
34. *Machilus zuihoensis* Hay.; (Incens machilus, 香楠).  
Specimens:—Miaoli Hsien: Cholan (卓蘭)/1981.3.17.  
—Nantow Hsien: Meiyuan (眉原)/1982.2.16.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.

## MALPIGHIACEAE (黃耨花科)

35. *Hiptage benghalensis* (L.) Kurz.; (Bengal hiptage, 猿尾藤).  
Specimens:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.

## MELASTOMATACEAE (野牡丹科)

36. *Pachycentria formosana* Hayata; (Formosan pachycentria, 紅果野牡丹).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.

## MENISPERMACEAE (防己科)

37. *Stephania japonica* (Thunb.) Miers; (Japanese stephania, 千金藤).  
Specimen:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.

## MORACEAE (桑科)

38. *Ficus wrightiana* Wall. ex Benth.; (Fruit fig tree, 雀榕).  
Specimen:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.
39. *Malaisia scandens* (Lour.) Planch.; (Malaisia, 盤龍木).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.

## MYRSINACEAE (紫金牛科)

40. *Ardisia cornudentata* Mez.; (Horny-toothed ardisia, 鐵雨傘).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.
41. *Ardisia quinqueгона* Blume.; (Asiatic ardisia, 小葉樹杞).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.
42. *Ardisia sieboldii* Miq.; (Siebold ardisia, 樹杞).  
Specimens:—Miaoli Hsien: Cholan (卓蘭)/1981.3.18.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.
43. *Maesa tenera* Mez.; (Taiwan maesa, 臺灣山桂花).  
Specimen:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.

## MYRTACEAE (桃金娘科)

44. *Syzygium buxifolium* Hook. et Arn.; (Box-leaf eugenia, 小葉赤楠).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.
45. *Syzygium formosanum* (Hay.) Mori; (Taiwan eugenia, 臺灣赤楠).  
Specimens:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.

## OLEACEAE (木犀科)

46. *Fraxinus griffithii* C. B. Clarke; (Island ash, 白雞油).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.
47. *Jasminum hemsleyi* Yamam.; (Mountain jasmine, 山素英).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.

## PAPILIONACEAE (蝶形花科)

48. *Derris laxiflora* Benth.; (Loose-flowered jewelvine, 疏花魚藤).  
Specimens:—Nantow Hsien: Meiyuan (眉原)/1982.3.16.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.3.19.

## PASSIFLORACEAE (西蕃蓮科)

49. *Passiflora edulis* Sims.; (Passion fruit, 百香果).  
Specimen:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.

## PIPERACEAE (胡椒科)

50. *Piper kadsura* (Choisy) Ohwi; (Pepper, 風藤).  
Specimens:—Miaoli Hsien: Cholan (卓蘭)/1981.3.18.  
—Nantow Hsien: Meiyuan (眉原)/1982.2.16.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.

## POLYPODIACEAE (水龍骨科)

51. *Pyrrosia lingua* (Thunb.) Farwell; (Felt fern, 石葦).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.12.

## PROTEACEAE (山龍眼科)

52. *Helicia rengetiensis* Masam.; (Lienhuachih helicia, 倒卵葉山龍眼).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.

## RUBIACEAE (茜草科)

53. *Gardenia jasminoides* Ellis; (Cape-jasmine, 山黃梔).  
Specimen:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.
54. *Psychotria rubra* (Lour.) Poir.; (Wild coffee, 九節木).  
Specimens:—Miaoli Hsien: Cholan (卓蘭)/1981.3.18.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.

## RUTACEAE (芸香科)

55. *Melicope merrillii* (Kaneh. et Sasak. ex Kaneh.) Liu et Liao; (Taiwan melicope, 山刈葉).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.19.
56. *Murraya paniculata* (L.) Jack.; (Common jasmine orange, 月橘).  
Specimen:—Nantow Hsien: Meiyuan (眉原)/1982.2.16.

## STAPHYLEACEAE (省沽油科)

57. *Turpinia formosana* Nakai; (Formosan turpinia, 山香圓).  
Specimens:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.  
—Nantow Hsien: Meiyuan (眉原)/1982.2.16.

## THEACEAE (茶科)

58. *Adinandra milletii* Benth. et Hook. f. ex Hance var. *formosana* (Hay.)  
Kobuski; (Taiwan adinandra, 臺灣楊桐).  
Specimens:—Taipei Hsien: Chihsingshan (七星山)/1980.4.12.  
—Taipei Hsien: Hsihting (石碇)/1981.4.13.  
—Miaoli Hsien: Cholan (卓蘭)/1981.3.18.
59. *Adinandra milletii* Benth. et Hook. f. ex. Hance var. *hypochlora* (Hay.)  
Liu et Lu; (Green-back adinandra, 綠背楊桐).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.
60. *Camellia sinensis* (L.) O. Ktze var. *assamica* (Mast.) Kitam.; (Assam tea, 阿薩姆茶).  
Specimen:—Hsinchu Hsien: Kuanhsih (關西)/1979.12.18.
61. *Camellia tenuifolia* (Hay.) Cohen-Stuart.; (Slender-leaved camellia, 細葉油茶).  
Specimens:—Taipei Hsien: Hsihting (石碇)/1981.4.13.  
—Nantow Hsien: Lienhuachih (蓮華池)/1979.5.10; 12.12.  
—Hsinchu Hsien: Kuanhsih (關西)/1979.12.28.
62. *Cleyera japonica* var. *morii* (Yamam.) Masam; (Mori cleyera, 森氏紅淡比).  
Specimen:—Taipei Hsien: Yangmingshan (陽明山)/1980.4.1.
63. *Eurya acuminata* DC.; (Acuminate-leaf eurya, 銳葉柃木).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.
64. *Eurya japonica* Thunb.; (Common eurya, 柃木)  
Specimens:—Taipei Hsien: Chihsingshan (七星山)/1980.4.12.  
—Taipei Hsien: Hsihting (石碇)/1981.4.14.  
—Miaoli Hsien: Cholan (卓蘭)/1981.3.18.
65. *Eurya leptophylla* Hay.; (Thin-leaf eurya, 薄葉柃木).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.
66. *Gordonia axillaris* (Roxb.) Dietr.; (Taiwan gordonia, 大頭茶).  
Specimens:—Taipei Hsien: Hsintien (新店)/1980.  
—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.
67. *Schima superba* Gardn. et Champ.; (Chinese guger-tree, 木荷).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.18.

## VACCINIACEAE (越橘科)

68. *Vaccinium wrightii* A. Gray; (Wright blue berry, 來特氏越橘).  
Specimen:—Nantow Hsien: Kuantaochi (關刀溪)/1982.2.17.

## WINTERACEAE (八角茴香科)

69. *Illicium arborescens* Hayata; (Rosy anise, 紅花八角).  
Specimen:—Nantow Hsien: Lienhuachih (蓮華池)/1981.1.21.

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**臺灣新記錄之 *Cephaleuros Virescens* 之寄主植物**

謝 煥 儒

臺灣省林業試驗所森林生物系

*Cephaleuros virescens* Kunze 爲一著名之植物寄生性綠藻，其寄主範圍廣泛，能寄生在許多種植物上。本文共記載69種在臺灣發現並爲臺灣新記錄之本病原綠藻之寄主植物。