

## **Wen-Liang Chiou**

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During my undergraduate years I fell in love with ferns, which is a love I have never regretted. I am interested in exploring ferns' taxonomy, systematics, gametophytes, reproductive biology, phenology, hybridization, polyploidization, evolution, usage, etc. I enjoy traveling widely and spending time on ferns in the herbarium and botanical garden.

### **Education:**

B.S., National Chung-Hsing University (1975)

M.S., National Chung-Hsing University (1978)

Ph.D., Iowa State University (1996)

### **Professional Service:**

Assistant researcher, Hengchun Experimental Station, TFRI, 1980–1990.

Assistant researcher, Division of Forest Biology, TFRI, 1990–1998.

Associate researcher, Division of Forest Biology, TFRI, 1998–2000.

Associate researcher and Chief, Fushan Experimental Station, TFRI, 2000–2003.

Associate researcher and Chief, Division of Forest Biology, TFRI, 2004–200905.

Associate researcher and Chief, Division of Botanical Garden, TFRI,  
200906–201408.

Curator, the herbarium (TAIF) of TFRI, 2003–201408.

Emeritus curator, the herbarium (TAIF) of TFRI, 201409–present.

President, Taiwan Society of Plant Systematics, 201003–201403.

Supervisor, Taiwan Society of Plant Systematics, 201404–2020.

Serve as editor board member, associate editor, or executive editor for Fern Gazette, International Journal of Plant Reproductive Biology, Quarterly Journal of Chinese Forestry, Taiwan Journal of Forest Science, and Taiwania for various years.

**Fields of speciality:** Pteridophytes, taxonomy, reproductive biology, ecology, conservation.

## Publications

### A. Journal papers 期刊論文(\* : corresponding author 通訊作者)

1. Chiou, W.-L.\* and W.-C. Shieh. 1984. The gametophytes of Adiantaceae in Taiwan. *Yushania* 1: 1–10.
2. Chiou, W.-L. 1985. The gametophytes of *Platycerium bifurcatum* (Cav.) C. Chr. *Yushania* 2: 19–23.
3. 邱文良, 1986, 台灣狗脊蕨配子体及幼孢子体的研究, 玉山學報 3: 7–13。
4. 邱文良, 1986, 中華雙蓋蕨配子体及幼孢子体的研究, 玉山學報 3: 15–20。
5. 邱文良, 1988, 闊葉骨碎補配子体及幼孢子体的研究, 玉山學報 5: 15–20。
6. 邱文良, 1989, 烏毛蕨配子体及幼孢子体的研究, 玉山學報 6: 1–8。
7. 邱文良, 1989, 馬鞍藤的扦插繁殖, 現代育林 4(2): 83–84。
8. 邱文良, 1991, 恒春自然保留區植群之研究。林業試驗所研究報告季刊 6(3):203–227。
9. 林國銓, 邱文良, 施炳霖, 1991, 恒春熱帶植物園步道兩側植群及土壤的受害調查。林業試驗所研究報告季刊 6(4): 357–365。
10. 邱文良, 1992, 箭葉鳳尾蕨配子體的研究, 玉山學報 9: 89–92。
11. 邱文良, 林朝欽, 1992, 台北植物園遊客資料初步調查, 林試所研究報告季刊 7(1):15–21。
12. 林朝欽, 邱文良, 1992, 台北植物園八十一年度親子自然教育活動成效評估。林試所研究報告季刊 7(3):195–215。
13. 李新鐸, 邱文良, 王相華, 1993, 澎湖生態造林之研究—25 種恒春鄉土樹種在澎湖沙港的適應性研究, 林試所研究報告季刊, 8(3):209–218。
14. Chiou, W.-L.\* and D. R. Farrar. 1997. Antheridiogen productiion and response in Polypodiaceae. *American Journal of Botany* 84(5): 633–640.
15. Chiou, W.-L.\* and D. R. Farrar. 1997. Comparative gametophyte morphology of selected species of the family Polypodiaceae. *American Fern Journal* 87(3): 77–86.
16. Chiou, W.-L.\*, D. R. Farrar, and T. A. Ranker. 1998. Gametophyte morphology and reproductive biology in *Elaphoglossum* Schott. *Canadian Journal of Botany* 76: 1967–1977.
17. 李沛軒、應紹舜、邱文良\*, 1999, 台灣之鬼桫欓配子体與幼孢子体形態研究。台大實驗林研究報告 13(3): 193–202.
18. Chiou, W.-L.\*, P.-H. Lee, and S.-S. Ying. 2000. Reproductive biology of gametophytes of *Cyathea podophylla* (Hook.) Copel. *Taiwan J. For. Sci.* 15(1): 1–12.
19. Huang, Y.-M., S.-S. Ying, and W.-L. Chiou\*. 2000. Morphology of gametophytes and young sporophytes in *Sphaeropteris lepifera* Amer. *Fern J.* 90(4): 127–137.

20. Huang, Y.-M., W.-L. Chiou\*, and P. S. Lee. 2001. Morphology of the gametophytes and young sporophytes of Cyatheaceae native to Taiwan. *Taiwania* 46(3): 274–283.
21. Chiou, W. L.\*, J. C. Lin, and J. Y. Wang. 2001. Phenology of *Cibotium taiwanense* (Dicksoniaceae). *Taiwan J. For. Sci.* 16(4): 209–215.
22. 李建堂、鄭育斌、邱文良、林則桐、陳建文、王儀臻，2002，關渡自然保留區 1986—1998 年植群變遷 *台灣林業科學* 17(1): 41—50。
23. Moore, S.-J., T.-H. Hsieh, Y.-M. Huang, W.-L. Chiou\*. 2002. *Diplazium maonense* Ching, A Poorly Known Species of the Athyriaceae (Pteridophyta) in Taiwan. *Taiwan J. For. Sci.* 17(1): 113–118.
24. Chiou, W.-L.\*, D. R. Farrar, and T. A. Ranker. 2002. The mating systems of some epiphytic Polypodiaceae. *Amer. Fern J.* 92(2): 65–79.
25. 林朝欽、董世良、邱文良，2002，福山植物園自然教育之評估 戶外遊憩研究 15(3): 1–10。
26. Chiang, T.Y., Chiang Y.C., Chou C.H., Cheng Y.P., Chiou W.L.\* 2002. Phylogeography and conservation of *Archangiopteris somai* Hayata and *A. Itoi* Shieh based on nucleotide variation of the ATPB-RBCl intergenic spacer of chloroplast DNA. *Fern Gaz.* 16(6): 335–340.
27. Lin H.J., Shao K.J., Chiou W.L., Maa C.W., Hhieh H.L., Wu W.L., Severinghaus L.L., Wang Y.L. 2003. Biotic communities of freshwater marshes and mangroves in relation to saltwater incursions: implications for wetland regulation. *Biodiversity and Conservation* 12: 647–665.
28. 邱文良\*、李沛軒、黃曜謀，2003，同型孢子蕨類配子體的生殖生物學 *台灣林業科學* 18(1): 67–73。
29. 黃曜謀、翁韶良、邱文良\*，2003，蕨類植物孢子的收集與保存 *台灣林業科學* 18(1): 75–79。
30. 黃曜謀、郭巧瑜、邱文良\*，2003，台灣產金狗毛蕨屬配子體與幼孢子體的形態 *台灣林業科學* 18(3): 163–170。
31. Chang, H. M., W. L. Chiou, J. C. Wang. 2003. Supplements to the Pteridophytes in Taiwan (I): *Dryopteris decipiens* (Hook.) Kuntze (Dryopteridaceae). *Taiwania* 48(3): 197–202.
32. Craig E. M., T. C. Lin, C. C. Hsu, S. H. Lin, K. C. Lin, Y. Hsia, and W. L. Chiou. 2004. Ecophysiology and plant size in a tropical epiphytic fern, *Asplenium nidus*, in Taiwan. *Intel. J. Plant Sci* 165(1): 65–72.
33. Huang Y. M., C. M. Chou, W. L. Chiou\* 2004. Density Affects Gametophyte Growth and Sexual Expression of *Osmunda cinnamomea* L. (Osmundaceae, Pteridophyta). *Ann. Bot.* 94: 229–232.
34. 林麗君、董景生、邱文良、王相華，2004，宜蘭縣南澳鄉金洋及澳花部落泰

雅族民族文化初步調查 國家公園學報 14(1): 25–54。

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41. Huang, Y. M., H. M. Chou, T. H. Hsieh, J. C. Wang, W. L. Chiou\*. 2006. Cryptic characteristics distinguish diploid and triploid varieties of *Pteris fauriei* (Pteridaceae). *Can. J. Bot.* 84: 261–268.
42. Li, Jer-Haur, W. L. Chiou\*. 2006. Changes in the Flora on Islet Pengchiayu across 100 years. *Taiwania* 51(3):1–14.
43. Chiou, W. L.\*, Y. M. Huang, C. M. Chen. 2006. Conservation of two endangered ferns, *Archangiopteris simai* and *A. itoi* (Marattiaceae: Pteridophyta), by propagation from stipules. *Fern Gazette* 17 (5): 271–278.
44. Cheng YP, Hwang SY, Chiou WL, Lin TP. 2006. Allozyme variation of populations of *Castanopsis carlesii* (Fagaceae) corroborating diversity centers and potential divergence areas in Taiwan. *Ann. Bot.* 98:601–608.
45. Chang HM, SJ Moore, WL Chiou, Jenn-Che Wang. 2006. Supplements to the pteridophytes in Taiwan (II): *Diplazium crassiusculum* Ching (Athyriaceae). *Taiwania* 51(4): 287–292.
46. 柯佳玟、黃曜謀、邱文良\*，2006，儲存條件對連珠蕨孢子活力的影響 生物學報 41(2): 77–82.
47. Huang, YM, HM Chou, JC Wang, WL Chiou\*. 2007. The distribution and habitats of the *Pteris fauriei* complex in Taiwan. *Taiwania* 52(1): 49–58.
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- Hayata (Marattiaceae), an endangered fern in Taiwan. Botanical Studies 48: 205–213.
49. Chang, HM, HL Chiang, PF Lu, JC Wang, WL Chiou. 2007. Supplements to the Pteridophyte in Taiwan (III): A Newly Recorded Species *Dryopteris championii* (Benth.) C. Chr. ex Ching (Dryopteridaceae). *Taiwania* 52(3): 238–242.
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51. Lee PH, YM Huang, \*WL Chiou. 2008. The Phenology of *Osmunda claytoniana* L. in the Tataka area, Central Taiwan. *Taiwan J For Sci* 23(1): 85–93.
52. Huang, YW, TY Chiang, \*WL Chiou. 2008. Isolation and characterization of microsatellite loci of *Lycopodium fordii* Bak. (Lycopodiaceae, Pteridophyta). *Conserv. Genet.* 9: 775–777.
53. Liu, YC, CR Fraser-Jenkins, VB Amoroso, \*WL Chiou. 2008. *Athyrium erythropodium* (Woodsiaceae, Pteridophyta), a new Philippine record. *Blumea* 53:447–451.
54. Kao, TT, SJ Chen, WL Chiou, YC Chuang, LL Kuo-Huang. 2008. Various microscopic methods for investigating the venuloid idioblasts of *Pteris grevilleana* Wall. *Taiwania* 53: 394–400.
55. Huang, YM, Chou HM, Liu CJ, Chiou WL\*. 2008. The correlation of plant size and fertility of *Asplenium nidus* L. (Aspleniaceae; Pteridophyta). *BioFormosa* 43(2): 77–83. [in Chinese]
56. Hsieh, TH, YH Chang, WL Chiou, YM Huang. 2008. Chromosome Numbers of Five Species of the Marattiaceae in Taiwan. *Taiwan J For Sci* 23(4): 377–381.
57. Lee PS, Lin TT, Chiou WL\*. 2009. Phenology of 16 species of ferns in a subtropical forest of northeastern Taiwan. *Journal of Plant Research* 122(1): 61–67.
58. Chang HM, Chen JF, Lu PF, More SJ, Wang JC, Chiou WL\*. 2009. Supplements to the lycophytes in Taiwan (I): A newly recorded species *Selaginella lutchuensis* Koidz. (Selaginellaceae). *Taiwania* 54: 88–92.
59. Liu YC, YM Huang, WL Chiou\*. 2009. Validation of the name *Adiantum meishanianum* (Pteridaceae), a species endemic to Taiwan. *Novon* 19: 59–61. (SCI)
60. Huang YM, SY Hsu, MH Huang, WL Chiou\*. 2009. Reproductive biology of three cheilanthonoid ferns in Taiwan. *The International Journal of Plant Reproductive Biology* 1(2): 1–8.
61. Chang HM, WL Chiou, JC Wang. 2009. Molecular evidence for genetic heterogeneity and the hybrid origin of *Acrorumohra subreflexipinna* from Taiwan.

- American Fern Journal 99(2): 61–77.
62. Lee, PS, WL Chiou, YM Huang. 2009. Phenology of three *Cyathea* (Cyatheaceae) ferns in northern Taiwan. Taiwan Journal of Forest Science 24(4): 233–242.
  63. Li FW, LY Kuo, YM Huang, WL Chiou, CN WANG. 2010. Tissue-direct PCR, a rapid and extraction-free method for barcoding of ferns. Molecular Ecology Resources 10: 92–95. (doi: 10.1111/j.1755-0998.2009.02745.x)
  64. Lin CC., CW. Hsiao, SS Lu, WL Chiou, LW Chang, MR Jeng. 2010. Filling information management gaps of forest dynamics plot databases using ecological metadata language and a scientific workflow system. Taiwan J For Sci 25(1): 1–9.
  65. Chao YS, HY Liu, YM Huang, WL Chiou\*. 2010. Reproductive traits of *Pteris cadieri* and *P. grevilleana* in Taiwan: Implications for their hybrid origin. Botanical Studies 51: 209–216.
  66. Lu, CT, WL Chiou, Shu-Chuan Liu, and Jenn-Che Wang. 2010. *Asarum satsumense* F. Maekawa (Aristolochiaceae), a newly recorded species in Taiwan. Taiwania. 55(4): 396–401.
  67. 高瑞卿、邱子芸、邱文良、黃曜謀，2010，草埤地區假紫萁孕性之研究。國立臺灣博物館學刊 63(4):15–25。
  68. Huang YM, SY Hsu, TH Hsieh, HM Chou, WL Chiou\*. 2011. Three *Pteris* species (Pteridaceae: Pteridophyta) reproduce by apogamy. Botanical Studies 52: 79–87.
  69. Chang HM, Lu PF, Hsu TC, \*Chiou WL. 2011. *Selaginella devolii* (Selaginella), a new species from Taiwan. Blumea 56: 21–23.
  70. Huang YM, Liu YC, Lu PF, \*Chiou WL. 2011. Gametophytes and Young Sporophytes of *Pentarhizidium orientalis* (Hook.) Hayata (Onocleaceae), a Rare Fern in Taiwan. International Journal of Plant Reproductive Biology 3: 7–14.
  71. Kuo LY, Li FW, Chiou WL, Wang CN. 2011. First insights into fern matK phylogeny. Molecular Phylogenetics and Evolution 59: 556–566.
  72. Liu YC, \*Chiou WL, Kato M. 2011. Molecular phylogeny and taxonomy of the fern genus *Anisocampium* (Athyriaceae). Taxon: 60: 824–830.
  73. 吳維修、張藝翰、邱文良、黃曜謀，2011，陽明山國家公園西南區石松類及蕨類植物調查。國家公園學報 21:35–46。
  74. Li Fay-Wei, Kuo Li-Yaung, Rothfels Carl J, Ebihara Atsushi, Chiou Wen-Liang, Windham Michael D., Pryer Kathleen M. 2011. *rbcL* and *matK* Earn Two Thumbs Up as the Core DNA Barcode for Ferns. PloS ONE: <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0026597>
  75. Chao Yi-Shan, Liu Ho-Yih, Chiang Yu-Chung, Chiou Wen-Liang\*. 2012. Polyploidy and Speciation in *Pteris* (Pteridaceae). Journal of Botany 2012;

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79. Chao YS, Chan YH, Ngan LT, Truong DV, Liu HY, \*Chiou WL. 2012. Different Ploids of *Pteris grevilleana* Wall. ex Agardh var. *ornata* Alderw. (Pteridaceae) in Taiwan and Vietnam. Taiwania 57(3): 278–282.
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81. 張藝翰、邱文良、呂碧鳳、許天銓，2012，闊葉鱗蓋蕨在臺灣的再發現。台灣生物多樣性研究 14 (3–4): 15–21。
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83. Chang YL, Hsieh CL, Huang YM, Chiou WL, Kuo YH, Tseng MH. 2013. Modified method for determination of sulfur metabolites in plant tissues by stable isotope dilution-based liquid chromatography–electrospray ionization–tandem mass spectrometry. Analytical Biochemistry 442: 24–33.
84. Moore SJ, Parris BS, Kao TT, Lu PF, Chiou WL\*. 2013. *Xiphopterella devolii* (Polypodiaceae), a new species and newly recorded genus in Taiwan. Bot. Stud. 54: 24.
85. Lu CT, Chiou WL, Wang JC. 2013. *Asarum pubitessellatum*, sp. nov. (sect. Heterotropa, Aristolochiaceae) from Taiwan based on morphological and palynological evidence. Bot. Stud. 54: 28.
86. Chao YS, Ebihara A, Chang YH, Jiang RH, Lu TN, \*Chiou WL. 2013. New Distribution of *Pteris kawabatae* Sa. Kurata and Re-circumscription of *Pteris*

- arisanensis* Tagawa. *Taiwania* 58(4): 295–300.
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  - 90. Kao TT, Chiou WL, Hsu SY, Chen CM, Chao YS, Huang YM. 2014. Hybrid Origin of *Nephrolepis × hippocrepicis* Miyam. (Nephrolepidaceae). *Inter. Jour. Pl. Rep. Biol.* 6(1): 1–14.
  - 91. Chen CW, Ebihara A, \*Chiou WL, Li CW. 2014. *Haplopteris yakushimensis* (Pteridaceae, Vittarioideae), a new species from Yakushima Island, Japan. *Phytotaxa* 156 (4): 229–234. (<http://dx.doi.org/10.11646/phytotaxa.156.4.5>)
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  - 95. Chang YH, Chiou WL, Huang YM, Shen BN, Lin CY, Hsu TC. 2014. New additions to the fern flora of Taiwan (2). *TW. J. Biodivers.* 16(3): 263–272.
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