

CHEN, CHENG-WEI

Independent researcher
Keelung, Taiwan 202
Phone: +886912275401
Email: wade0504@gmail.com



I am particularly interested in studying microevolutionary patterns and processes of fern biodiversity using an integrated methodology including morphology, reproductive biology, cytology, and molecular phylogenetics. My current research project as an independent researcher is focused on understanding species diversity and writing a monograph of the Old World genera of vittarioids, including *Antrophyum*, *Haplopteris*, and *Vaginularia*.

EDUCATION

- 2007—2010 M.Sc. Horticulture
Advisor: W. S. Lee & W. L. Chiou
National Chung Hsing University, Taiwan
Thesis: Insights into the evolutionary history of the *Davallia repens* complex
- 2003—2007 B.Sc. Horticulture

RESEARCH APPOINTMENTS*

- 2017—2018 Research assistant of Taiwan Forestry Research Institute
Project: Mechanisms of epiphytic speciation in vittarioid ferns
- 2016—2017 Research assistant of Taiwan Forestry Research Institute
Project: A systematic study of the old world vittarioids
- 2012—2016 Contracted researcher of the National Museum of Natural Science (Taiwan)
Project: Census and classification of plant resources in the Solomon Islands
- 2010—2012 Research assistant of the Taiwan Forestry Research Institute
Project: Gametophyte ecology of the family Vittariaceae native to Taiwan

* Part-time employment from 2018—present to accommodate parental care.

GOOGLE SCHOLAR METRICS

Total number of citations: 576

H-index: 7

i10-index: 7

PUBLICATIONS IN PEER-REVIEWED JOURNALS

Chen, C.-W., Kuo, L.-Y., Huang, Y.-H., Hsu, T.-C., Dang, M. T., Luu, H. T., Li, C.-W. & Huang, Y.-M. 2019. A new species and a new record of *Stegnogramma* (Thelypteridaceae; Polypodiales) from southern Vietnam. *Systematic Botany* 44: 768–774.

Xu, K.-W., Zhang, L., Rothfels, C. J., Smith, A. R., Viane, R., Lorence, D., Wood, K. R., **Chen, C.-W.**, Knapp, R., Zhou, L., & al. 2019. A global plastid phylogeny of the fern genus *Asplenium* (Aspleniaceae). *Cladistics* in press.

Chen, C.-W., Lindsay, S., Yong, K. T., Mustapeng, A. M. A., Amoroso, V. B., Dang, V. D., & Huang, Y.-M. 2019. Clarification of two poorly known vittarioid ferns (Pteridaceae): *Haplopteris angustissima* and *H. capillaris*. *Systematic Botany* 44: 483–493.

Taiwan Pteridophyte Group (TPG). 2019. Updating Taiwanese pteridophyte checklist: a new phylogenetic classification. *Taiwania* 64: 367–395.

Chen, C.-W., Lindsay, S., Mynssen, C.M., Kuo, L.-Y., Amoroso, V.B., & Huang, Y.-M. 2018. A new *Haplopteris* species from the Philippines and clarification of the status of *H. amboinensis* in China and Indochina. *Gardens' Bulletin Singapore* 70: 177–190.

Chen, C.-W., Rothfels, C.J., Mustapeng, A.M.A., Gubilil, M., Karger, D.N., Kessler, M., & Huang, Y.-M. 2018. End of an enigma: *Aenigmopteris* belongs in *Tectaria* (Tectariaceae: Polypodiopsida). *Journal of Plant Research* 131: 67–76.

Dong, S.-Y., **Chen, C.-W.**, Tan, S.-S., Zhao, H.-G., Zuo, Z.-Y., Chao, Y.-S., & Chang, Y.-H. 2018. New insights on the phylogeny of *Tectaria* (Tectariaceae), with special reference to *Polydictyum* as a distinct lineage. *Journal of Systematics and Evolution* 56: 139–147.

Chen, C.-W., Sundue, M., Kuo, L.-Y., Teng, W.-C., & Huang, Y.-M. 2017. Phylogenetic analyses place the monotypic *Dryopolystichum* within Lomariopsidaceae. *PhytoKeys* 78: 83–107.

Chen, C.-W., Lindsay, S., Kuo, L.-Y., Fraser-Jenkins, C.R., Ebihara, A., Luu, H. T., Park, C.W., Chao, Y.-S., Huang, Y.-M., & Chiou, W.-L. 2017. A systematic study of East Asian vittarioid ferns (Pteridaceae: Vittarioideae). *Botanical Journal of the Linnean Society* 183: 545–560.

Chao, Y.-S., Mustapeng, A. M. A., **Chen, C.-W.**, & Chiou, W.-L. 2017. *Pteris borneensis*

- (Pteridaceae), a new species from Borneo, with re-circumscription of *Pteris decrescens* and *Pteris parviloba*. *Systematic Botany* 42: 1–9
- Kuo, L.-Y., **Chen, C.-W.**, Shinohara, W., Ebihara, A., Kudoh, H., Sato, H., Huang, Y.-M., & Chiou, W.-L. 2017. Not only in the temperate zone: independent gametophytes of two vittarioid ferns (Pteridaceae, Polypodiales) in East Asian subtropics. *Journal of Plant Research* 130: 255–262.
- Zhou, X.-M., Zhang, L., **Chen, C.-W.**, Li, C.-X., Huang, Y.-M., Chen, D.-K., Lu, N. T., Cicuzza, D., Knapp, R., Tam Luong, T., Nitta, J. H., Gao, X.-F., & Zhang, L.-B. 2017. A plastid phylogeny and character evolution of the Old World fern genus *Pyrrosia* (Polypodiaceae) with the description of a new genus: *Hovenkampia* (Polypodiaceae). *Molecular Phylogenetics and Evolution* 114: 271–294.
- Zhou, X., **Chen, C.-W.**, & Zhang, L.-B. 2017. *Pyrrosia annamensis* comb. nov. (Polypodiaceae) from Southeast Asia and lectotypification of *Cyclophorus rhomboidalis*. *Phytotaxa* 309: 90–94.
- Schuettpelz, E., **Chen, C.-W.**, Kessler, M., Pinson, J. B., Johnson, G., Davila, A., Cochran, A. T., Huiet, L., & Pryer, K. M. 2016. A revised generic classification of vittarioid ferns (Pteridaceae) based on molecular, micromorphological, and geographic data. *Taxon* 65: 708–722.
- Chen, C.-W.**, Schuettpelz, E., Lindsay, S., & Middleton, D. J. 2016. (2454) Proposal to conserve the name *Haplopteris* against *Monogramma* (Pteridaceae). *Taxon* 65: 884–885.
- Tsutsumi, C., **Chen, C.-W.**, Larsson, A., Hirayama, Y., & Kato, M. 2016. Phylogeny and classification of Davalliaceae on the basis of chloroplast and nuclear markers. *Taxon* 65: 1236–1248.
- Chen, C.-W.**, Nitta, J.H., Fanerii, M. Yang, T.-Y. A., Pitisopa, F., Li, C.-W. & Chiou, W.-L. 2015. *Antrophyum solomonense* (Pteridaceae), a new species from the Solomon Islands, and its systematic position based on phylogenetic analysis. *Systematic Botany* 40: 645–651.
- Parris, B., **Chen, C.-W.**, Hsu, T.-C., Lu, T. N., Nguyen, Q. D., & Luu, H. T. 2015. New species and records of grammitid ferns (Polypodiaceae) for Vietnam. *Phytotaxa* 226: 39–50.
- Chang, Y.-H., Chang, H.-M., Hung, H.-C., Teng, W.-C., **Chen, C.-W.** & Hsu, T.-C. 2015. Rediscovery of *Vaginularis trichoidea* Fée (Pteridaceae) in Taiwan. *Taiwan Journal of Biodiversity* 17: 59–65.
- Lindsay, S., & **Chen, C.-W.** 2014. Three new combinations in *Haplopteris* (Pteridaceae subfam. Vittarioideae). *Gardens' Bulletin Singapore* 66: 169–171.
- Chen, C.-W.**, Lu, T. N., Hidayat, A., Evangelista, L., Nooteboom, H. P., & Chiou, W.-L. 2014. First insights into the evolutionary history of the *Davallia repens*

complex. *Blumea* 59: 49—58.

- Sundue, M. A., Parris, B. S., Ranker, T. A., Smith, A. R., Fujimoto, E. L., Zamora-Crosby, D., Morden, C. W., Chiou, W.-L., **Chen, C.-W.**, Rouhan, G., Hirai, Y., & Prado, J. 2014. Global phylogeny and biogeography of grammitid ferns (Polypodiaceae). *Molecular Phylogenetics and Evolution* 81: 195—206.
- Chen, C.-W.**, Ebihara, A., Chiou, W.-L., & Li, C.-W. 2014. *Haplopteris yakushimensis* (Pteridaceae, Vittarioideae), a new species from Yakushima Island, Japan. *Phytotaxa* 156: 229—234.
- Chen, C.-W.**, Huang, Y.-M., Kuo, L.-Y., Chang, Y.-H., Liu, Y.-C., & Chiou, W.-L. 2013. A new Vittarioid fern species, *Haplopteris heterophylla* (Pteridaceae). *Systematic Botany* 38: 901—909.
- Chang, Y.-H., Kuo, L.-Y., Chiou, W.-L., **Chen, C.-W.**, Chang, H.-M., & Amoroso, V. B. 2013. *Stenolepia* Alderw. (Dryopteridaceae), a fern genus new to the Philippines. *Philippine Journal of Science* 142: 83—88.
- Chen, C.-W.**, Huang, Y.-M., Kuo, L.-Y., Nguyen, Q. D., Luu, H. T., Callado, J. R., Farrar, D. R., & Chiou, W.-L. 2013. *trnL-F* is a powerful marker for DNA identification of field vittarioid gametophytes (Pteridaceae). *Annals of Botany* 111: 663—673.
- Chang, Y.-H., Wu, W.-H., **Chen, C.-W.**, Lu, P.F., & Huang, Y.-M. 2012. Two taxa of ferns newly recorded to Taiwan. *Taiwan Journal of Biodiversity* 14: 81—90.
- Chen, C.-W.**, Kuo, L.-Y., Wang, C.-N., & Chiou, W.-L. 2012. Development of PCR primer sets for intron 1 of the low-copy gene *LEAFY* in Davalliaceae. *American journal of botany* 99: e223—e225.

BOOKS

- Hsu, T.-C., **Chen, C.-W.**, Knapp, R., & Hung, H.-J. 2019. Illustrated flora of Taiwan: ferns and lycophytes I. Taipei: Owl Publishing House. 448pp. (in Chinese)
- Hsu, T.-C., **Chen, C.-W.**, Knapp, R., & Hung, H.-J. 2019. Illustrated flora of Taiwan: ferns and lycophytes II. Taipei: Owl Publishing House. 476pp. (in Chinese)
- Chen, C.-W.**, Perrie, L., Glenny, D., & Chiou, W.-L. 2017. *Sol amazing: lycophytes & ferns of the Solomon Islands*. Taichung: National Museum of Natural Science. 550pp.
- Amoroso, V.B., **Chen, C.-W.**, Coritico, F.P., Lu, P.-F., Alcalá, E.L., & Chiou, W.-L. 2016. Guide to lycophytes and ferns of Balinsasayao, Negros, the Philippines. Pingdong: KBCC Press. 150pp.

CONFERENCE CONTRIBUTIONS

- Chen, C.-W.**, Perrie, L., Glenny, D., & Chiou, W.-L. 2018. Sol amazing: lycophytes and ferns of the Solomon Islands. Taipei: 7th Asian Symposium of ferns and

lycophytes.

Chen, C.-W., Huang, Y.-M., Li, C.-W., & Chiou, W.-L. 2015. Proposing a monographic study on the Old World genera of vittarioids. Washington DC: Next Generation Pteridology Symposium.

Chen, C.-W., Ebihara, A., Luu, H.T., Park, C.W., He, Z.-R., Li, C.-W., Kuo, L.-Y., & Chiou, W.-L. 2014. Bali: 6th Asian Pteridology Symposium.

Chen, C.-W., Kuo, L.-Y., Nguyen, Q.D., Luu, H.T. & Chiou, W.L. 2012. Using trnL-F as DNA barcode to identify field vittarioid gametophytes. Kuala Lumpur: Malaysia International Biological Symposium.

Chen, C.-W., Chiou, W.-L., & Evangelista, L. 2010. Insights into evolutionary history of the *Humata repens* complex (Davalliaceae) in Taiwan. Shenzhen: 5th Symposium on Asian Pteridology.

INVITED SEMINARS

Chen, C.-W. 2018. New or interesting finding of ferns in Sabah and Sarawak. Kuching: Department of Forestry, Forest Research Centre.

Chen, C.-W. 2018. Fern systematics on species level: case of vittarioids. Hochiminh city: University of Sciences, Vietnam National University.

AWARDS

2010 The best thesis of the year
 Title: Insights into the evolutionary history of the *Davallia repens*
 Taiwan Society of Plant Systematics