

DAFTAR PUSTAKA

- Abidin, AN., Rr. Eko, S., dan Nurul, M. 2015. Studi Morfologi Spora Genus *Asplenium* dan Genus *Loxogramme* Menggunakan Metode Scanning Electron Microscope (SEM). *Prosiding Seminar Nasional Pendidikan Biologi 2010*.
- Abirami K., V. Baskaran, P. Simhachalam, K. Venkatesan and D.R. Singh. 2018. Molecular characterization of *Asplenium nidus* L. – A potential ornamental fern species from Andaman. *Agric. Sci. Digest.*, 38(4) 2018: 265-269. DOI: 10.18805/ag.D-4821
- Adjie, B., dan Lestari, WS. 2011. *Flora Indonesiana: Ferns of Bali*. Bali Botanic Garden, Indonesian Institute of Sciences, Baturiti, Tabanan, Bali, Indonesia.
- Agashe, SN. dan E. Caulton. 2009. *Pollen And Spores: Applications With Special Emphasis On Aerobiology And Allergy*. United States of America: Science Publishers.
- Anonymous. 2015. *Provinsi Riau*. Kantor Regional XII BKN Pekanbaru <https://pekanbaru.bkn.go.id/home/provinsi-riau/> Diakses pada tanggal 24 April 2020
- Animasaun, DA., Oyedeji, S., Ingalthalli, RS., dan Krishnamurthy, R. 2018. Polymorphism and genetic diversity assessment of some ornamental ferns by microsatellite (ISSR) markers. *Journal of Applied Horticulture*, 20(3): 1-5.
- Antara. 2008. Indonesia Negara II Miliki Keanekaragaman Hayati. <https://www.antaranews.com/berita/126581/indonesia-negara-ii-miliki-keanekaragaman-hayati>. Diakses pada tanggal 2 Mei 2020.
- Arini, DID., dan Kinho, J. 2012. *Keragaman Jenis Tumbuhan Paku (Pteridophyta) di Cagar Alam Gunung Ambang Sulawesi Utara*. Info BPK Manado, 2 (1):18.
- Brown, C. 1960. What Is the Role of Spores in Fern Taxonomy?. *American Fern Journal*, 50(1): 6-14. doi:10.2307/1545238
- Bushakra, JM., Hodges, SA., Cooper, JB., dan Kaska, DD. 1999. The extent of clonality and genetic diversity in the Santa Cruz Island ironwood, *Lyonothamnus floribundus*. *Molecular Ecology*, 8(3):471–475. doi:10.1046/j.1365-294x.1999.00591.x
- Camara, J., Alves, M., dan Marques, J. 2006. Multivariate analysis for the classification and differentiation of Madeira wines according to main grape varieties. *Talanta*, 68(5): 1512–1521. DOI: 10.1016/j.talanta.2005.08.012

- Cha RS dan Thilly WG. 1993. Specificity, efficiency, and fidelity of PCR. *PCR Methods Appl.* 3(3):S18-29. doi: 10.1101/gr.3.3.s18.
- Dina Natalia, Husain Umar, Sustri. 2014. Pola Penyebaran Kantong Semar (*Nepenthes tentaculata* Hook.F) di Gunung Rorekautimbu Kawasan Taman Nasional Lore Lindu. *Warta Rimba*, 2(1): 35-44
- Devol Charles E. 1960. The Gleicheniaceae of Taiwan and Adjacent Areas. *Taiwania*, 7(1):17-31. DOI: 10.6165/tai.1960.7.17
- Dong YH., Gituru RW., dan Wang QF. 2010. Genetic variation and gene flow in the endangered aquatic fern *Ceratopteris pteridoides* in China and conservation implications. *Annales Botanici Fennici* 47(1): 34-44. <https://doi.org/10.5735/085.047.0104>
- Dwiatmini, Kristina, N. A. Mattjik, H. Aswidinnoor, dan N.L. Toruan-Matius. 2003. Analisis Pengelompokan dan Hubungan Kekerbatan Spesies Anggrek *Phalaenopsis* Berdasarkan Kunci Determinasi Fenotipik dan Marka Molekuler RAPD. *Jurnal Hortikultura*, 13(1):16-27. doi:10.21082/jhort.v13n1.2003.p16-27.
- Erdtman, G. 1966. *Pollen Morphology and Plant Taxonomy*. London: Hafner Publishing Company.
- Ellstrand NC, Elam DR. 1993. Population genetic consequences of small population size: implications for plant conservation. *Annual Review Ecology and Systematics*, 24(1): 217–242. DOI: 10.1146/annurev.es.24.110193.001245
- Farfán-Santillán N, Mendoza-Ruiz A, Pérez-García B, dan Velázquez-Montes E. 2017. Desarrollo de los gametofitos de especies mexicanas de Gleicheniaceae. *Revista de Biología Tropical*, 65(3): 939-952. DOI: 10.15517/rbt.v65i3.26346
- Fang, DQ., dan Roose, ML. 1997. Identification of closely related citrus cultivars with inter-simple sequence repeat markers. *Theor Appl Genet.* 95(3) : 408—417. <https://doi.org/10.1007/s001220050577>
- Fernando DD., JJ. Discenza, JR. Bouchard, dan DJ. Leopold. 2015. Genetic analysis of the threatened American hart's-tongue fern (*Asplenium scolopendrium* var. *americanum* [Fernald] Kartesz and Gandhi): Insights into its mating system and implications for conservation. *Biochemical Systematics and Ecology*, 62(1): 25-35. doi:10.1016/j.bse.2015.07.034
- Giacosa, JPR., Marta, AM., dan Gabriela, EG. 2013. Comparative palynological analysis of *Lygodium venustum* Sw. and *L. volubile* Sw. (Lygodiaceae).

Annals of the Brazilian Academy of Sciences, 85(2): 699-707.
DOI:10.1590/S0001-37652013000200015.

Go, R., Chin, LY., Haja, M., Hishammudin, O., Muskhazli, M., dan Umi, KY. 2012. The Distribution of the ferns Gleicheniaceae in Peninsular Malaysia. *Acta Biologica Malaysiana*, 1(1): 18-25. DOI:10.7593/abm/1.1.18

Godwin, ID., Aitken, EAB. dan Smith, L.W. 1997. Application of inter simple sequence repeat (ISSR) markers to plant genetics. *Electrophoresis*, 18(9): 1524-1528. doi: 10.1002/elps.1150180906.

Gonzales, J, dan Kessler, M. 2011. A synopsis of the neotropical species of *Sticherus* (Gleicheniaceae), with descriptions of nine new species. *Phytotaxa* 31(1): 1–54. DOI: 10.5167/uzh-56305

Google Inc. 2016. *Google Maps: Bukit suligi tandun*. <https://www.google.com/maps/search/bukit+suligi+tandun/@0.5767234,100.5306668,3135m/data=!3m1!1e3> Diakses Pada Tanggal 3 Oktober 2020.

Halbritter, H., Silvia, U., Friðgeir, G., Martina, W., Reinhard, Z., Michael, H., Ralf, B., Matthias, S., dan Andrea, FR. 2018. *Illustrated Pollen Terminology 2nd Edition*. Springer Wien. New York.

Hartini, S. 2009. Tumbuhan Paku di Cagar Alam Bukit Bungkok, Riau. *Berkala Penelitian Hayati Edisi Khusus*: 3A (21–27).

Harahap, PH., dan Sofiyanti, N. 2019. Inventarisasi dan Kajian Palinologi Jenis-Jenis Tumbuhan Paku (Pterodofita) Epifit di Kawasan Universitas Riau, Provinsi Riau. *Jurnal Biologi Tropis*. 19 (2) : 214 – 220. DOI: 10.29303/jbt.v19i2.1266

Hassler, M., dan Schmitt, B. 2020. *World Ferns: Checklist of Ferns and Lycophytes of the World* (Versi 8.20 - January 2020). <http://worldplants.webarchiv.kit.edu/ferns/>. Diakses pada tanggal 16 Februari 2020.

Henderson AJ. 2002. Phenetic and phylogenetic analysis of Reinhardtia (Palmae). *American Journal of Botany* 89(9): 1491–1502. doi: 10.3732/ajb.89.9.1491.

Holtum, R. E. 1957. Florae Malesianae Praecursores XVI. On the taxonomic subdivision of the Gleicheniaceae, with description of new Malaysian species and varieties. *Reinwardtia* 4: 257–280. DOI: <https://doi.org/10.14203/reinwardtia.v4i2.1004>

Honnay O, dan Jacquemyn H. 2008. A meta-analysis of the relation between mating system, growth form and genotypic diversity in clonal plant species. *Evol. Ecol.* 22:299–312. doi:10.1146/annurev.ecolsys.110308.120258

- Hoshizaki, BJ., dan Robbin, CM. 2001. *Fern Grower's Manual*. Timber Press, Inc. USA.
- Irma, W., dan Nofripa, H., 2013. Keanekaragaman Hayati Tumbuhan Paku (Pteridophyta) di Desa Gading Sari Kec. Tapung Kab. Kampar Provinsi Riau. *Jurnal Photon*. 4 (1): 65-70
- Irsyad Alfi Fauzan, Rindyastuti, R., Titut Yulistyarini, Agung Sri Darmayanti, dan Budi Setiadi Daryono. 2020. Genetic variation of agarwood producing tree (*Gyrinops versteegii*) from Pongkor, Manggarai District, Flores Island, Indonesia using ISSR molecular markers. *Biodiversitas Journal of Biological Diversity*, 21(2): 485-491. doi:10.13057/biodiv/d210208
- Juhasz, M. 1976. Gleicheniaceae Spores from Lower Cretaceous Deposits of Hungary. *Acta Biologica Szeged*. 23 (1-4): 3-17.
- Jeffers J. N. R. 1967. Two Case Studies in the Application of Principal Component Analysis. *Applied Statistics*. 16(3): 225-236. doi:10.2307/2985919
- Jin, XF., BY. Ding dan K. Iwatsuki. 2013. Gleicheniaceae. Pp. 110–115 in Z. Y. Wu, P. H. Raven & D. Y. Hong, eds., *Flora of China*, Vol. 2–3 (*Pteridophytes*). Beijing: Science Press; St. Louis: Missouri Botanical Garden Press.
- Kessler Michael dan Smith Alan R. 2018. Prodromus of a fern flora for Bolivia. XI. Gleicheniaceae. *Phytotaxa*, 344(1): 053–063 <https://doi.org/10.11646/phytotaxa.344.1.7>
- Korpelainen H, John de B, Je´re´my D, dan Sahaya P. 2005. Four tropical, closely related fern species belonging to the genus *Adiantum* L. are genetically distinct as revealed by ISSR fingerprinting. *Genetica* 125: 283–291. DOI: 10.1007/s10709-005-0747-6.
- Kovach, WL. 2007. *Multivariate Statistical Package (MVSP) Plus Version 3.22 User's Manual*. Publish by Kovach Computing Services.
- Li Weiguo, Bingrui Wang, Jianbo Wang. 2006. Lack of genetic variation of an invasive clonal plant *Eichhornia crassipes* in China revealed by RAPD and ISSR markers. *Aquatic Botany*. 84(2):176-180. <https://doi.org/10.1016/j.aquabot.2005.09.008>.
- Lima Lucas Vieira, dan Salino Alexandre. 2018. The fern family Gleicheniaceae (Polypodiopsida) in Brazil. *Phytotaxa*, 358(3). DOI: 10.11646/phytotaxa.358.3.1
- Marpaung, AA., Nery, S., dan Dyah, I. 2016. Morfologi spora paku Pteridaceae di Hutan PT. CPI Rumbai Riau. *Jurnal Riau Biologia*. 1(2) : 149-154.

- Meloni, M., Reid, A., Caujapé-Castells, J., Marrero, A., Fernández-Palacios, J. M., Mesa-Coelo, R. A., dan Conti, E. 2013. Effects of clonality on the genetic variability of rare, insular species: the case of *Ruta microcarpa* from the Canary Islands. *Ecology and evolution*, 3(6), 1569–1579. <https://doi.org/10.1002/ece3.571>
- Moran Robbin. 2018. Gleicheniaceae : Dicranopteris medusae. http://www.plantsystematics.org/imgs/robbin/r/Gleicheniaceae_Dicranopteris_medusae_48585.html. [Diakses pada tanggal 10 Maret 2021].
- Ng WL, Tan SG. 2015. Inter-Simple Sequence Repeat (ISSR) Marker: Are We Doing It Right. *ASM Science Journal*. 9 (1): 30-39.
- Østergaard A dan Øllgaard B. 1996. A note on some morphological terms of the leaf in the Gleicheniaceae. *American Fern Journal* 86: 52–57. doi:10.2307/1547368
- Podani Janos. 1999. Extending Gower's General Coefficient of Similarity to Ordinal Characters. *Taxon* 48(2):331. DOI: 10.2307/1224438
- Perrie, L.R.dan Brownsey, P.J. 2015: Gleicheniaceae. In: Breitwieser, I; Heenan, P.B.; Wilton, A.D. (ed.) *Flora of New Zealand — Ferns and Lycophytes*. Fascicle 12. Manaaki Whenua Press, Lincoln. DOI: 10.7931/B1VC77
- Pérez de la Torre Mariana, Martín García, Ruth Heinz, dan Alejandro Escandón. 2012. Analysis of genetic variability by ISSR markers in *Calibrachoa caesia*. *Electronic Journal of Biotechnology* 15 (5). DOI:10.2225/vol15-issue5-fulltext-8
- Poerba, Yuyu S., dan Fajarudin Ahmad. 2013. Analisis Keragaman Genetik *Musa balbisiana* Colla Berdasarkan Marka RAPD Dan ISSR. *Berita Biologi*, 12(2) DOI: 10.14203/beritabiologi.v12i2.540
- Pranita, HS., Mahanal, S., dan Sari, MS. 2017. Karakteristik Spora Tumbuhan Paku *Asplenium* Kawasan Hutan Raya R. Soerjo. *Jurnal Pendidikan: Teori, Penelitian, dan Pengembangan*. 2(4): 454–458.
- Rif'atunidaudina, R., Sobir, dan Maharijaya, A. 2019. Keanekaragaman Sumberdaya Genetik Sayuran Polong Potensial di Indonesia berdasarkan Penanda Molekuler ISSR. *Jurnal Hortikultura Indonesia*, 10(3), 161-172.
- Rugayah, A Retnowati, FI Windadri dan A Hidayat. 2004. Pengumpulan Data Taksonomi. Dalam: Rugayah, EA Widjaja dan Praptiwi (Ed.). *Pedoman Pengumpulan Data Keanekaragaman Flora*, 5-42. Pusat Penelitian Biologi-LIPI. Bogor.

- Saccheri I, Kuussaari M, Kankare M, Vikman P., Fortelius W., dan Hanski I. 1998. Inbreeding and extinction in a butterfly metapopulation. *Nature*. 392(6675):491–494. DOI:10.1038/33136
- Sartika, Agus Setiawan, dan Jani Master. 2017. Populasi dan Pola Penyebaran Kantong Semar (*Nepenthes gracilis*) di Rhino Camp Resort Sukaraja Atas Kawasan Taman Nasional Bukit Barisan Selatan (TNBBS). *Jurnal Sylva Lestari*. 5(3):12—21. DOI: 10.23960/jsl3512-21
- Shaw, SW., dan Ranker TA. 2011. New and Improved Leaf Terminology for Gleicheniaceae. *American Fern Journal* 101(2):117–124. DOI: <http://dx.doi.org/10.1640/0002-8444-101.2.117>
- Sneath, P. dan Sokal R. 1973. *Numerical taxonomy*. W. H. Freeman, San Francisco, California, USA.
- Spooner, D., R.V. Treuren, and M.C. de Vicente. 2005. *Molecular Markers for Genbank. Management*. International Plant Genetic. Resources Institute. Rome. Hal. 13.
- Sofiyanti, N., dan Isda, MN. 2019. Jenis – jenis tumbuhan paku (Pteridofita) dari Hutan Universitas Riau, Provinsi Riau dan Pola Pita DNA berdasarkan Penanda DNA M13Primer. *Biospecies*. 12 (1): 24-32.
- Sofiyanti, N., Iriani, D., Marpaung, AA., dan Fitmawati. 2017. *Karakteristik Dan Metode Pembuatan Preparat Spora Pteridoflora*. UNRI Press. Pekanbaru. Hal: 18-20
- Sofiyanti Nery, Mayta Novaliza Isda, Erwina Juliantari, Rissan Suriatno, Syafroni Pranata. 2019. The inventory and spore morphology of ferns from Bengkalis Island, Riau Province, Indonesia. *Biodiversitas*. 20(11): 3223-3236 DOI: 10.13057/biodiv/d201115
- Sofiyanti Nery, Dyah Iriani, Fitmawati, Afni Atika Marpaung. 2019. Morphology, palynology, and stipe anatomy of four common ferns from Pekanbaru, Riau Province, Indonesia. *Biodiversitas*. 20(1): 327-336 <https://doi.org/10.13057/biodiv/d200138>
- Sofiyanti, N., Marpaung, A., suriatno, R., dan Pranata, S. 2020. Jenis-Jenis Tumbuhan Paku di Pulau Rangsang, Kepulauan Meranti, Riau dan Karakteristik Morfologi-Palinologi. *Jurnal Biologi Tropis*, 20(1):102-110. doi:<http://dx.doi.org/10.29303/jbt.v20i1.1711>
- Sokal RR. 1986. Phenetic taxonomy: Theory and Methods. *Annu Rev. Ecol. Evol. Syst.* 17:423-442.

- Soltis, P., dan Soltis, D. 1990. Genetic Variation within and among Populations of Ferns. *American Fern Journal*, 80(4), 161-172. doi:10.2307/1547205
- Sundra, I K. 2016. *Metode dan Teknik Analisis Flora dan Fauna Darat*. PPLH-LEMLIT. UNUD Denpasar.
- Susandarini R, Rugayah, Lauretius HN dan Siti S. 2016. Chemotaxonomy of Indonesian *Citrus maxima* based on Leaf Essential Oils. *OnLine Journal of Biological Sciences* 16 (1): 26.33. DOI: 10.3844/ojbsci.2016.26.33
- Suyitno, AL. 2004. *Penyiapan Spesimen Awetan Objek Biologi*. Jurusan Biologi FMIPA UNY. Yogyakarta
- Tracey G. 2007. The Australasian Pollen and Spore Atlas V1.0. Australian National University. Canberra. <http://apsa.anu.edu.au/sample/407-17-1-6?order=desc&q=Dicranopteris+linearis&sort=rel>. [Diakses 10 Maret 2021]
- Tryon, RM., and Tryon, AF. 1982. *Ferns and Allied Plants: With Special Reference to Tropical America*. Springer-Verlag. New York.
- Van Steenis, CGGJ. 1959. *Flora Malesiana: Series II Volume 1 Pteridophyta*. Martinus Nijhoff. Dr W. Junk Publishers The Hague. Boston. London
- Verma Vijay dan Aggarwal Rajesh Kumar. 2019. A New Similarity Measure Based on Simple Matching Coefficient for Improving the Accuracy of Collaborative Recommendations. *International Journal of Information Technology and Computer Science* 11(6):37-49. DOI: 10.5815/ijitcs.2019.06.05
- Vidyashree, S.Y. Chandrashekar, D.C. Lakshmana Reddy, dan Lavanya Reddy. 2019. Analysis of Genetic Diversity of Ferns of Western Ghats in Mudigere region of Karnataka based on ISSR Markers. *Int.J.Curr.Microbiol.App.Sci.* 8(2): 1372-1378. <https://doi.org/10.20546/ijcmas.2019.802.161>
- Vijayakanth P. dan Sathish S. Sahaya. 2016. Studies On The Spore Morphology Of Pteridophytes From Kolli Hills, Eastern Ghats, Tamil Nadu, India. *JREB*. Vol. 4 (1): 1.
- Wang T, Su Y, Li Y. 2012. Population Genetic Variation in the Tree Fern *Alsophila spinulosa* (Cyatheaceae): Effects of Reproductive Strategy. *PLOS ONE* 7(7): e41780. <https://doi.org/10.1371/journal.pone.0041780>
- Westin, D., dan Westin, S. 1995. *Common Ferns of Vermont*. Agency of Natural Resources. USA

- Yatskievych, G. 2018. *Gleicheniaceae*. Encyclopædia Britannica, inc. <https://www.britannica.com/plant/Gleicheniaceae>. Diakses pada tanggal 28 April 2020.
- Yunianti, R, S. Sartrosumarjo, S. Sujiprihati, M. Surahman, dan S.H. Hidayat. 2007. Ketahanan 22 Genotipe Cabai (*Capsicum* spp.) terhadap *Phytophthora capsici* Leonian dan Keragaman Genetiknya. *Bul. Agron.* 35(2), 103-111.
- Yu, T., Han, B., Tian, Q., dan Liu, A. 2011. Genetic variation and clonal diversity of *Bromus ircutensis* Kom. in the Otingdag sandy land detected by ISSR markers. *Russian Journal of Genetics*, 47: 703-710. DOI:10.1134/S1022795411060172
- Ziętkiewicz E, Rafalski A, Labuda D. 1994. Genome fingerprinting by simple sequence repeat (SSR)-anchored polymerase chain reaction amplification. *Genomics* 20 (12): 176–183. DOI:10.1006/geno.1994.1151