

REFERENCES

- Altschul, S. F., Gish, W., Miller, W., Myers, E. W., & Lipman, D. J. (1990). Basic local alignment search tool. *Journal of Molecular Biology*, 215: 403–410.
- Alan, R. T. (2006). Genetic drift in large population and coalescence. In. *Population genetics and microevolutionary theory*. 149–150. New Jersey, USA: John Wiley & Sons.
- Aun, L. L. I., Azmi, M. N., Ibrahim, H., Awang, K., & Nagoor, N. H. (2011). 1'S-1'-acetoxyeugenol acetate: a novel phenylpropanoid from *Alpinia conchigera* enhances the apoptotic effects of paclitaxel in MCF-7 cells through NF-κB inactivation. *Anti-Cancer Drugs*, 2(5): 424–434. doi: 10.1097/CAD.0b013e328343cbe6
- Awang, K., Ibrahim, H., Syamsir, D. R., Mohtar, M., Ali, R. M., & Ali, N. A. M. (2011). Chemical Constituents and Antimicrobial Activity of the Leaf and Rhizome Oils of *Alpinia pahangensis* Ridl., an Endemic Wild Ginger from Peninsular Malaysia. *Chemistry & Biodiversity*, 8: 668–673.
- Awang, K., Azmi, M. N., Aun, L. I. L., Aziz, A. N., Ibrahim, H., & Nagoor, N. H. (2010). The Apoptotic Effect of 1'S-1'-Acetoxychavicol Acetate from *Alpinia conchigera* on Human Cancer Cells. *Molecules*, 15: 8048–8059. doi:10.3390/molecules15118048
- Aziz, A. N., Ibrahim, H., Syamsir, D. R., Mohtar, M., Vejayan, J., & Awang, K. (2013). Antimicrobial compounds from *Alpinia conchigera*. *Journal of Ethnopharmacology*, 145: 798–802.
- Baldwin, B. G., Sanderson, M. J., Porter, J. M., Wojciechowski, M. F., Campbell, C. S., & Donoghue, M. J. (1995). The ITS region of nuclear ribosomal DNA: a

- valuable source of evidence on angiosperm phylogeny. *Annals of the Missouri Botanical Garden*, 82: 247–277.
- Baum, D. A., Smith, S. D., & Donovan, S. S. (2005). The tree-thinking challenge. *Science*, 310: 979–980. doi: 10.1126/science.1117727
- Bounford.com, & UNEP/GRID-Arendal. (2006). Status of terrestrial ecoregions map. *Global Environment Outlook 4 (GEO-4)*. Retrieved from http://www.grida.no/graphicslib/detail/status-of-terrestrial-ecoregions_1522.
- Burtt, B. L. & Smith, R. M. (1972a). Key words to the subfamilies; tribes and genera of Zingiberaceae. *Notes from the Royal Botanic Gardens Edinburgh*, 31: 204.
- Burtt, B. L. & Smith, R. M. (1972b). Malesian Zingiberaceae. *Notes from the Royal Botanic Gardens Edinburgh*, 31:306–316.
- Cavalcanti, B. C., Ferreira, J. R. O., Cabral, I. O., Magalhães, H. I. F., de Oliveira, C. C., Rodrigues, F. A. R.,...& Moraes, M. O. (2012). Genetic toxicology evaluation of essential oil of *Alpinia zerumbet* and its chemoprotective effects against H₂O₂-induced DNA damage in cultured human leukocytes. *Food and Chemical Toxicology*, 50: 4051–4061.
- CBOL Plant Working Group. (2011). Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. *PNAS*, 108: 19641–19646.
- CBOL Plant Working Group. (2009). A DNA barcode for land plants. *PNAS*, 106 (31): 12794–12797. www.pnas.org/cgi/doi/10.1073/pnas.0905845106
- Chompoo, J., Upadhyay, A., Kishimoto, W., Makise, T., & Tawata, S. (2011). Advanced glycation end products inhibitors from *Alpinia zerumbet* rhizomes. *Food Chemistry*, 129: 709–715.

- Comes, H. P., & Abbott, R. J. (1999). Reticulate evolution in the Mediterranean species complex of *Senecio* sect. *Senecio*: uniting phylogenetic and population-level approaches. *Molecular Systematics and Plant Evolution: The Systematics Association Special Volume Series*, 57: 171–198.
- Darriba, D., Taboada, G. L., Ramón Doallo, R., & Posada, D. (2012). jModelTest 2: more models, new heuristics and parallel computing. *Nature Methods*, 9(8): 772.
- Debra, R. H., Sayantani, G. D., Cai, Z., Penaflor, C., Kuehl, J. V., Boore, J. L., & Jansen, R. K. (2007). Phylogenetic and evolutionary implications of complete chloroplast genome sequences of four early-diverging angiosperms: *Buxus* (Buxaceae), *Chloranthus* (Chloranthaceae), *Dioscorea* (Dioscoreaceae), and *Illicium* (Schisandraceae). *Molecular Phylogenetics and Evolution*, 45: 547–563.
- Divakaran, S. A., Hema, P. S., Nair, M. S., & Nair, C. K. K. (2013). Antioxidant capacity and radioprotective properties of the flavonoids galangin and kaempferide isolated from *Alpinia galanga* L. (Zingiberaceae) against radiation induced cellular DNA damage. *Int. J. Radiat. Res.*, 11(2): 81–89.
- Doyle, J. J., & Doyle, J. L. (1987). A rapid DNA isolation procedure from small quantities of fresh leaf tissue. *Phytochemistry Bulletin*, 19: 11–15.
- Elzaawely, A. A., Xuan, T. D., Koyama, H., & Tawata, S. (2007a). Antioxidant activity and contents of essential oil and phenolic compounds in flowers and seeds of *Alpinia zerumbet* (Pers.) B.L. Burtt. & R.M. Sm. *Food Chemistry*, 104: 1648–1653.
- Elzaawely, A. A., Xuan, T. D., Koyama, H., & Tawata, S. (2007b). Essential oils, kava pyrones and phenolic compounds from leaves and rhizomes of *Alpinia zerumbet* (Pers.) B.L. Burtt. & R.M. Sm. and their antioxidant activity. *Food Chemistry*, 103: 486–494.

- Farhanin, N. & Jaffry, A. D. (2014). Orang Asli Batek Mangsa Pencerobohan Hutan. *Aduan Rakyat*. Malaysia: Berita TV3. Retrieved from http://www.tv3.com.my/beritatv3/aduan_rakyat/Orang_Asli_Batek_Mangsa_Pencerobohan_Hutan.html
- Globoloff, P. A. & Pol, D. (2005). Parsimony and Bayesian phylogenetics. In Albert, V. A. (ed.) *Parsimony Phylogeny and Genomics*, New York: Oxford University Press.
- Groot, G. A., During, H. J., Maas, J. W., Schneider, H., Vogel, J. C., & Erkens, R. H. J. (2011). Use of *rbcL* and *trnL-F* as a Two-Locus DNA Barcode for Identification of NW-European Ferns: An Ecological Perspective. *PLoS ONE*, 6(1): 1–10.
- Hamby, R. K., & Zimmer, E. A. (1992). Ribosomal RNA as a phylogenetic tool in plant systematic. In Soltis, P., S., Soltis, D., E., and Doyle, J., J. (eds) *Molecular Systematics of Plants*. 50–91. London: Chapman and Hall.
- Hansen, J., Pushker, K., Sato, M., Valerie, M-D., Ackerman, F., Beerling, D. J., & Zachos, J. C. (2013). Assessing “Dangerous Climate Change”: Required Reduction of Carbon Emissions to Protect Young People, Future Generations and Nature. *PLOS One*, 8(12): 1–26.
- Harris, D. J., Poulsen, A. D., Frimodt-Moller, C., Preston, J., & Cronk, Q. C. B. (2000). Rapid radiation in *Aframomum* (Zingiberaceae): evidence from nuclear ribosomal DNA internal transcribed spacer (ITS) sequences. *Edinburgh Journal of Botany*, 57: 377–395.
- Hennig, W. (1956). Systematik und Phylogenese. *Bericht Hunderjahrfeier Dtsch. Ent. Ges.*, 50–71. Akademie Verlag, Berlin.
- Herrmann, F., & Wink, M. (2014) Use of *rbcL* sequences for DNA barcoding and authentication of plant drugs used in Traditional Chinese Medicine. *PeerJ PrePrints*. 2:e196v1 <http://dx.doi.org/10.7287/peerj.preprints.196v1>

- Hershkovitz, M. A., Zimmer, E. A., & Hahn, W. J. (2002) Ribosomal DNA sequences and angiosperm systematic. *Molecular Systematics and Plant Evolution: The Systematics Association Special Volume Series*, 57: 268–326. London: Taylor and Francis.
- Hollingsworth, P. M. (2011). Refining the DNA barcode for land plants. *PNAS*, 108(49): 19451–19452.
- Holttum, R. E. (1950). The Zingiberaceae of the Malay Peninsula. *Gardener's Bulletin of Singapore*, 13: 1–249.
- Hussin, K. H., Chua, T. S., Ibrahim, I., Wu, Q. G., Ping, L. J., & Liu, N. (eds). (2000). Comparative leaf anatomy of *Alpinia* Roxb. species (Zingiberaceae) from China. *Botanical Journal of the Linnean Society*, 133: 161–180.
- Huelsenbeck, J., P., & Ronquist, F. (2001). MRBAYES: Bayesian inference of phylogeny. *Bioinformatics*, 17:754–755.
- Jeffries, M. J. (2006). *Biodiversity and conservation*. New York: Routledge Taylor & Francis Group.
- Johnson, L. A., & Soltis, D. E. (1994). *matK* DNA sequences and phylogenetic reconstruction in Saxifragaceae sensu strict. *Systematic Botany*, 19: 143–156.
- Julius, A., Sam, Y. Y., & Saw, L. G. (2009). Conservation Assessment of *Haniffia* (Zingiberaceae). *Fifth International Symposium of the Family Zingiberaceae*, (p93). Xishuangbanna, China: Chinese Academy of Sciences.
- Kéry, M., Matthies, D., & Spillmann, H.-H. (2000). Reduced fecundity and offspring performance in small populations of the declining grassland plants *Primula veris* and *Gentiana lutea*. *Journal of Ecology*, 88: 17–30. doi: 10.1046/j.1365-2745.2000.00422.x

- Khunpiban, A., Peyachoknagul, S., & Keeratinijakal, V. (2010). Genetic diversity of edible galanga (*Alpinia* spp.) using AFLP technique. *Thai Journal of Genetics*, 3:1.
- Kluge, A. G. (1989). A concern of evidence and a phylogenetic hypothesis of relationships among *Epicrates* (Bovidae, Serpentes). *Systematics of Zoology*, 38: 7–25.
- Kress, W. J., Liu, A. Z., Newman, M. & Li, Q. J. (2005a). The molecular phylogeny of *Alpinia* (Zingiberaceae): a complex and polyphyletic genus of gingers. *American Journal of Botany*, 92: 167–178.
- Kress, W. J., Wurdack, K. J., Zimmer, E. A, Weigt, L. A, & Janzen, D. H. (2005b). Use of DNA barcodes to identify flowering plants. *Proc. Natl. Acad. Sci. USA*, 102: 8369–8374.
- Kress, W. J., Prince L. M., & Williams, K. J. (2002). The phylogeny and a new classification of the gingers (Zingiberaceae): evidence from molecular data. *American Journal Botany*, 89: 1682–1696.
- Larsen, K., J., Lock, M., Maas, H., & Maas., P., J., M. (1998). Zingiberaceae. In K. Kubitzki (Ed.), *The families and genera of vascular plants*. IV: 474–495. Berlin, Germany: Springer-Verlag.
- Larsen, K., Ibrahim, H., Khaw, S. H. & Saw, L. G. (1999). *Gingers of Peninsular Malaysia and Singapore*. Malaysia: Natural History Publication.
- Liao, J.-P., & Wu, Q.-G. (1996). Fruit anatomy of Chinese *Alpinia* and its taxonomic significance. In T.-L. Wu, Q.-G. Wu, and Z.-Y. Chen (eds.), *Proceedings of the 2nd Symposium on the Family Zingiberaceae*, 82–90. Guangzhou, P. R. China: Zhongshan University Press.

- Li, Q.-J., Kress, W. J., Xu, Z.-F., Xia, Y.-M., Zhang, L., Deng, X.-B., & Gao, J.-Y. (2002). Mating system and stigmatic behaviour during flowering of *Alpinia kwangsiensis* (Zingiberaceae). *Plant Systematics and Evolution*, 232: 123–132.
- Li, Q.-J., Xu, Z.-F., Kress, W., J., . Xia, Y.-M, Zhang, L., Deng, ...& Bai, Z.-L. (2001). Flexible style that encourages outcrossing. *Nature*, 410: 432.
- Librado, P., & Rozas, J. (2009). DnaSP v5: A software for comprehensive analysis of DNA polymorphism data. *Bioinformatics*, 25: 1451–1452.
- Lim, C. K. (2004). *Alpinia mythiana* - a new species previously considered to be a variety of *Alpinia rafflesiana* Wall. ex Baker. *Folia Malaysiana*, 5: 171–186.
- Lim, C. K. (2007). A new *Alpinia* species from Pahang, Peninsular Malaysia. *Folia Malaysiana*, 8(2): 115–120.
- Limmatvapirat, C., Phaechamud, T., & Charoenteeraboon, J. (2011). Determination of heavy metals in rhizomes of *Alpinia galanga* by inductively coupled plasma mass spectrometry. *Key Engineering Materials*, 486: 143–146.
- Lin, C. W. (2014, Jan). Genetic Diversity Among *Alpinia* species by using ISSR and SRAP Markers. Paper presented at the *International Plant & Animal Genome Conference*, San Diego, California, USA.
- Linnaeus, C. (1753). *Species plantarum*. Stockholm: Laurentii Salvius.
- Linnaeus (1782). *Supplementum plantarum*. Brunswick: Orphanotrophus.
- Liu, S. C., Lu, C. T., & Wang J. C. (2009). Reticulate hybridization of *Alpinia* (Zingiberaceae) in Taiwan. *Journal of Plant Research*, 122: 305–316.
- Lo, C-Y., Liu, P-L., Lin, L-C., Chen, Y-T., Hseu, Y-C., Wen, Z-H., & Wang, H. M. (2013). Antimelanoma and Antityrosinase from *Alpinia galangal* Constituents. *The Scientific World Journal*, 186505: 1-5.
<http://dx.doi.org/10.1155/2013/186505>

- Luo, Y-L., & Li, Q-J. (2010). Effects of light and low temperature on the reciprocal style curvature of Flexistylous *Alpinia* Species (Zingiberaceae). *Acta Physiol Plant*, 32: 1229–1234. DOI 10.1007/s11738-010-0497-7
- Maddison, D. R. (1991). The discovery and importance of multiple islands of most-parsimonious trees. *Systematic Zoology*, 40 (3): 315–328.
- Malek, S. N. A., Phang, C. W., Ibrahim, H., Wahab, N. A., & Sim, K. S. (2011). Phytochemical and Cytotoxic Investigations of *Alpinia mutica* Rhizomes. *Molecules*, 16: 583–589. doi:10.3390/molecules16010583
- Miyamoto, M. M., & Fitch, W. M. (1995). Testing species phylogenies and phylogenetic methods with congruence. *Systematics of Biology*, 44: 64–76.
- Murakami, S., Li, W., Matsuura, M., Satou, S., Hayashi, S., & Koike, K. (2009). Composition and seasonal variation of essential oil in *Alpinia zerumbet* from Okinawa Island. *Journal of Natural Medicine*, 63: 204–208. DOI 10.1007/s11418-008-0306-4
- Ngamriabsakul, C., Newman, M. F., & Cronk, Q. C. B. (2000). Phylogeny and disjunction in *Roscoea* (Zingiberaceae). *Edinburgh Journal of Botany*, 57: 39–61.
- Nishiyama, T., Wolf, P.G., & Kugita, M. (2004). Chloroplast phylogeny indicates that bryophytes are monophyletic. *Molecular Biology of Evolution*, 21: 1813–1819.
- Norasiah, Jamil. (2008). Zingiberales in Traditional Malay Cooking. *The HSPR Newsletter. Heliconia Society of Puerto Rico*, 13.
- Olmstead, R. G., & Palmer, J. D. (1994). Chloroplast DNA systematics: a review of methods and data analysis. *American Journal of Botany*, 81: 1205–1224.
- Olson, D. M., Dinerstein, E., Wikramanayake, E. D., Burgess, N. D., Powell, G. V. N., Underwood, ... & Kassem, K. R. (2001). Terrestrial Ecoregions of the World: a New Map of Life on Earth. *BioScience*, 51(11): 933–938.

- Page, R. D. M., & Holmes, E. C. (1998). *Molecular evolution: A phylogenetic approach*. Oxford, London: Blackwell Publishing Limited.
- Pang, X., Song, J., Zhu, Y., Xu, H., Huang, L., & Chen, S. (2011), Applying plant DNA barcodes for Rosaceae species identification. *Cladistics*, 27: 165–170. doi: 10.1111/j.1096-0031.2010.00328.x
- Pedersen, L. B. (2004). Phylogenetic analysis of the subfamily Alpinioideae (Zingiberaceae) with special emphasis on *Etlingera Giseke*, based on nuclear and plastid DNA. *Plant Systematics and Evolution*, 245: 239–258.
- Phang, C-W., Nurestri, S. N. A., Ibrahim, H., & Wahab, N. A. (2011). Antioxidant properties of crude and fractionated extracts of *Alpinia mutica* rhizomes and their total phenolic content. *African Journal of Pharmacy and Pharmacology*, 5(7): 842–852.
- Phang, C-W., Nurestri, S. N. A., & Ibrahim, H. (2013). Antioxidant potential, cytotoxic activity and total phenolic content of *Alpinia pahangensis* rhizomes. *BMC Complementary and Alternative Medicine*, 13: 243.
- Posada, D. (2008). jModelTest: phylogenetic model averaging. *Molecular biology and evolution*, 25(7): 1253–1256. doi: 10.1093/molbev/msn083
- Posada, D., & Buckley, T. R. (2004). Model selection and model averaging in phylogenetics: Advantages of Akaike information criterion and Bayesian approaches over likelihood ratio tests. *Systematic biology*, 53(5): 793–808. doi: 10.1080/10635150490522304
- Posada, D., & Crandall, K. A. (1998). Modeltest: Testing the model of DNA substitution. *Bioinformatics*, 14(9): 817–818.
- Rangsiruji, A., Newman, M. F., & Cronk, Q. C. B. (2000) a. Origin and relationships of *Alpinia galanga* (Zingiberaceae) based on molecular data. *Edinburgh Journal of Botany*, 57: 9–37.

- Rangsiruji, A., Newman, M. F., & Cronk, Q. C. B. (2000) b. A study of the infrageneric classification of *Alpinia* (Zingiberaceae) based on the ITS region of nuclear rDNA and the *trnL-F* spacer of chloroplast DNA. In K. L. Wilson and D. A. Morrison (eds.). *Monocots—systematics and evolution*, 695–709. Collingwood, Australia: CSIRO Publishing.
- Ridley, H. N. (1899). The Scitamineae of the Malay Peninsula. *Journal of the Straits Branch Royal Asiatic Society*, 32:157–160.
- Ridley, H. N. (1924). Monocotyledones. *The Flora of the Malay Peninsula*, 4: 277–285.
- Riesenberg, L. H., & Soltis, D. E. (1991). Phylogenetic consequences of cytoplasmic gene flow in plants. *Evolutionary Trends in Plants*, 5: 65-84.
- Riesenberg, L. H, Whitton, J., & Linder, C. R. (1996). Molecular marker incongruence in plant hybrid zones and phylogenetic trees. *Acta. Botanica of Netherlands*, 45: 243–262.
- Riesenberg, L. H, & Welch, M. E. (2002). Gene transfer through introgressive hybridization: History, Evolutionary significance, and Phylogenetic consequences In. Syvanen, M. & Kado, C. L. (eds.). *Horizontal Gene Transfer* 199–216. California, USA: Academic Press.
- Ronquist, F., & Huelsenbeck, J. P. (2003). MrBayes 3: Bayesian phylogenetic inference under mixed models. *Bioinformatics*, 19: 1572–1574.
- Roxburgh, W. (1810). Descriptions of several of the Monandrous plants of India. *Asiatic Researches*, 11: 318–362.
- Saensouk, S., Chantaranothai, P., & K., Larsen. (2003). Note on the genus *Alpinia* Roxb. (Zingiberaceae) in Thailand. *Thai Forest Bulletin (Botany)*, 31: 95–104.
- Saha, D., & Paul, S. (2012). In Vitro Screening of Antifungal Activity of Methanol Extract of *Alpinia conchigera* Griff against Some Pathogenic Species of Fungi *Asian J. Pharm. Tech.*, 2(2): 44–46.

- Sakai, S., Kawakita, A., Ooi, K., & Inoue, T. (2013). Variation in the Strength of Association Among Pollination Systems and Floral Traits: Evolutionary Changes in the Floral Traits of Bornean Gingers (Zingiberaceae). *American Journal of Botany*, 100(3): 546–555.
- Sam, Y. Y., Saw, L. G., Ibrahim, H., & Mamat, H. (2009). Conservation and Threat Assessment of *Scaphochlamys* (Zingiberaceae) in Peninsular Malaysia. *Fifth International Symposium of the Family Zingiberaceae*, (p93). Xishuangbanna, China: Chinese Academy of Sciences.
- San Mauro, D., & Agorreta, A. (2010). Molecular systematics: a synthesis of the common methods and the state of knowledge. *Cellular & molecular biology letters*, 15(2): 311–341. doi: 10.2478/s11658-010-0010-8
- Schumann, K. (1904). Zingiberaceae. In Engler, A. (ed.) *Das Pflanzenreich*, 20.
- Searle, R. J., & Hedderson, T. A. J. (2000). A preliminary phylogeny of the Hedychieae tribe (Zingiberaceae) based on ITS sequences of the nuclear rRNA intron. In K. L. Wilson and D. A. Morrison (eds.). *Monocots— systematics and evolution*. 710–718. Collingwood, Australia: CSIRO Publishing.
- Shaw, J., Lickey, E. B., Schilling, E. E., & Small, R. L. (2007). Comparison of Whole Chloroplast Genome Sequences to Choose Noncoding Regions for Phylogenetic Studies in Angiosperms: The Tortoise and The Hare. *American Journal of Botany*, 94(3): 275–288.
- Sivasothy, Y., Ibrahim, H., Paliany, A. S., Alias, S. A., Nor, N. R. M., & Awang, K. (2013). A new Bis-Labdanic Diterpene from the Rhizomes of *Alpinia Pahangensis*. *Planta Medica*, 79: 1775–1780.
- Smith, R. M. (1990). *Alpinia* (Zingiberaceae): a proposed new infrageneric classification. *Edinburgh Journal of Botany*, 47(1).

- Soltis, D. E., Soltis, P. S., & Milligan B. G. (1992). Intraspecific chloroplast DNA variation: systematic and phylogenetic implications. *In* Soltis, D., E., Soltis, P., S., and Doyle, J., J. (eds) *Molecular Systematics of Plants*. 117–150. USA: Chapman and Hall.
- Soltis, D. E., & Soltis, P. S. (1998). Choosing an approach and an appropriate gene for phylogenetic analysis. *In* Soltis, D., E., Soltis, P., S., and Doyle, J., J. (eds) *Molecular Systematics of Plants II. DNA sequencing*. 1–42. Norwell, Massachusettes, USA: Kluwer Academic Publishers.
- Steele, K. P., & Vilgalys, R. (1994). Phylogenetic analysis of Polemoniaceae using nucleotide sequences of the plastid gene *matK*. *Systematic Botany*, 19: 126–142.
- Stoeckle, M. Y., Gamble, C. C., Kirpekar, R., Young, G., Ahmed, S., & Little, D. P. (2011). Commercial teas highlight plant DNA barcode identification success and obstacles. *Scientific reports*, 1: 42 (1-7). DOI: 10.1038/srep00042
- Sun, S., Gao, J-Y., Liao, W-J., Li, Q-J., & Zhang, D-Y. (2007). Adaptive Significance of Flexistylly in *Alpinia blepharocalyx* (Zingiberaceae): A Hand-pollination Experiment. *Annals of Botany*, 99: 661–666.
- Sun, S., Zhang, D-Y., Ives, A-R., & Li, Q-J. (2011). Why do stigmas move in a flexistylous plant? *Journal of Evolutionary Biology*, 24: 497–504.
- Sukhirun, N., Pluempanupat, W., Bullangpoti, V., & Koul, O. (2011). Bioefficacy of *Alpinia galanga* (Zingiberaceae) Rhizome Extracts, (E) -p- Acetoxycinnamyl Alcohol, and (E) -p-Coumaryl Alcohol Ethyl Ether Against *Bactrocera dorsalis* (Diptera: Tephritidae) and the Impact on Detoxification Enzyme Activities. *Journal of Economic Entomology*, 104(5): 1534–1540. doi: 10.1603/EC11080
- Syuhada, R. (2013). Hutan Simpan Bekelah Diceroboh Secara Haram. *Berita Terkini*. Malaysia: Berita TV3. Retrieved from

[http://www.tv3.com.my/beritatv3/berita_terkini/Hutan_Simpan_Bekelah_Dicero
boh_Secara_Haram.html](http://www.tv3.com.my/beritatv3/berita_terkini/Hutan_Simpan_Bekelah_Dicero_boh_Secara_Haram.html)

- Swofford, D. L. (2002). PAUP*. Phylogenetic Analysis Using Parsimony (*and Other Methods). Version 4. Sunderland, Massachusetts: Sinauer Associates.
- Talip, N., Hussin, K., & Ibrahim, I. (2004). Comparative leaf anatomy of *Alpinia* species (Zingiberaceae) in Malaysia. *Nordic Journal of Botany*, 23(4): 463–483.
- Takano, A., Gisil, J., Yusoff, M., & Tachi, T. (2005). Floral and pollinator behaviour of flexistylous Bornean ginger, *Alpinia nieuwenhuizii* (Zingiberaceae). *Plant systematic and Evolution*, 252: 167–173. DOI 10.1007/s00606-004-0258-4
- Takano, A., Gisil, J., & Suleiman, M. (2013). Floral size variation causes differentiation of pollinators and genetic parameters in *Alpinia nieuwenhuizii*, a flexistylous ginger (Zingiberaceae). *Plant Systematics and Evolution*, 299: 865–871. DOI 10.1007/s00606-013-0768-z
- Tamura, K., Peterson, D., Peterson, N., Stecher, G., Nei, M., & Kumar, S. (2011). MEGA5: molecular evolutionary genetics analysis using maximum likelihood, evolutionary distance, and maximum parsimony methods. *Molecular Biology of Evolution*, 28:2731–2739.
- Ujang, Z., Subramaniam, T., Diah, M. M., Wahid, H., Abdullah, B., Rashid, A. H. A., & Appleton, D. (2013). Bioguided fractionation and purification of natural bioactives obtained from *Alpinia conchigera* water extract with melanin inhibition activity. *Journal of Biomaterials and Nanobiotechnology*, 4: 265–272.
- Valeton, T. (1913). Zingiberaceae. *Nova Guinea*. 8: 923–988.
- Valkenburg, J. L. C. H., & Bunyapraphatsara, N. (2001). *Plant resources of South-East Asia*, 12(2): *Medicinal and poisonous plants* 2. pp. 782. Leiden, Netherlands: Backhuys Publishers.

- Wang, H., Liu, X., Wen, M., Pan, K., Zou, M., Lu, C., ...& Wang, W. (2012). Analysis of the Genetic Diversity of Natural Populations of *Alpinia oxyphylla* Miquel Using Inter-Simple Sequence Repeat Markers. *Crop Science*, 52(4): 1767–1775.
- White T. J., Bruns, T., Lee, S., & Taylor, J. (1990). Amplifications and direct sequencing of fungal ribosomal RNA genes for phylogenetics. In M. Innis, D. Gelfand, J. Sninsky, and T. White [eds.], *PCR protocols: a guide to methods and applications*, 315–322. Academic Press, San Diego, California, USA.
- Wiley, E. O., Siegel-Causey, D., Brooks, D. R., & Funk, V. A. (1991). The Compleat Cladist: A Primer of Phylogenetic Procedures. *The University of Kansas Museum of Natural History, Special publication* (19).
- Williams, K. J., Kress, W. J., & Manos, P. S. (2004). The phylogeny, evolution, and classification of the genus *Globba* and tribe Globbeae (Zingiberaceae): appendages do matter. *American Journal of Botany*, 91:100–114.
- Wu, T.L., & Larsen, K. (2000). Zingiberaceae In: Wu, Z.Y. & Raven P.H. *Flora of China*. 24: 322 – 377. Beijing: Science Press.
- Wood, T. H., Whitten, W. M., & Williams, N. H. (2000). Phylogeny of *Hedychium* and related genera (Zingiberaceae) based on ITS sequence data. *Edinburgh Journal of Botany*, 57: 261–270.
- Xia, Y.-M., Kress, W. J., & Prince, L. M. (2004). A phylogenetic analysis of *Amomum* (Alpinioideae: Zingiberaceae) using ITS and *matK* DNA sequence data. *Systematic Botany*, 29: 334–344.
- Yang, Q., Zhang, C., Chen, H., Teng, X., & Tang, X. (2011) AFLP analysis of genetic diversity of *Alpinia officinarum*. *China Journal of Chinese Materia Medica*, 36 (3): 330–333.

- Yasodha, S., Ibrahim, H., Paliany, A. S., Alias, S. A., Nor, N. R. M., & Awang, K. (2013). A new Bis-Labdanic Diterpene from the rhizomes of *Alpinia Pahangensis*. *Planta Medica*, 79: 1775–1780.
- Zairul, A. H. (2013, August 23). Kegiatan haram terbongkar. *Sinar Harian*. Retrieved from <http://www.sinarharian.com.my/edisi/pahang/kegiatan-haram-terbongkar-1.194810>
- Zhang, D., Duan, L., & Zhou, N. (2014). Application of DNA barcoding in *Roscoeia* (Zingiberaceae) and a primary discussion on taxonomic status of *Roscoeia cautleoides* var. *pubescens*. *Biochemical Systematics and Ecology*. 52: 14–19.
- Zhang, L., Li, Q-J., Deng, X. B., Ren, P-Y., & Gao, J-Y. (2003). Reproductive biology of *Alpinia blepharocalyx* (Zingiberaceae): another example of flexistylis. *Plant Systematics and Evolution*, 241: 67–76. DOI 10.1007/s00606-003-0021-2
- Zhao, Z. L., Wang, Z. T., Wu, L. S., & Zhou, K. Y. (2002). Studies on molecular markers of rhizomes of some *Alpinia* species. *Planta Med*, 68: 574–576.
- Zou, Y., Zou, P., Liu, H., & Liao, J. (2013). Development and Characterization of Microsatellite Markers for *Alpinia oxyphylla* (Zingiberaceae). *Applications in Plant Sciences*, 1(4): 1200457. <http://dx.doi.org/10.3732/apps.1200457>