

DAFTAR PUSTAKA

- Alvitasari D. 2022. Keanekaragaman morfologi dan sitologi *Begonia hooveriana* Wiriad. di Pulau Sulawesi. [Thesis] IPB University, Bogor
- Arteca RN. 2013. *Plant Growth Substances: Principles and Applications*. Springer Science and Business Media, Berlin
- Ashari S. 1998. *Pengantar Biologi Reproduksi*. Rineka Cipta. Jakarta.
- Ayu SAD, Putrika A, Girmansyah D. 2019. Analisis morfologi *Begonia isopectera* Dryand. ex Sm. (Begoniaceae) kompleks di Jawa. *Floribunda*, 6: 53–63. DOI: 10.32556/floribunda.v6i2.2019.263.
- Baninasab B, Tabori M, Yu J, Zhang Y, Wang X, Deschiffart I, Khanizadeh S. 2017. Low-temperature storage and in vitro pollen germination of selected spring wheat accessions. *J Agric Sci*, 9: 1-6. DOI: 10.5539/jas.v9n9p1.
- Cahyani NW, Izzah NL, Irawanto R. 2023. Fenologi dan karakteristik biji tumbuhan air *Nelumbo nucifera*, *Thalia geniculata*, *Ludwigia octovalvis* di Kebun Raya Purwodadi. *Proc Nat Sem Indonesian Biodiv Soc* 9(1): 53-58. DOI: 10.13057/psnmbi/m090108.
- Caine RS, Yin X, Sloan J, Harrison EL, Mohammed U, Fulton T, Biswal AK, Dionora J, Chater CC, Coe RA, Bandyopadhyay A, Murchie EH, Swarup R, Quick WP, Gray JE. 2019. Rice with reduced stomatal density conserves water and has improved drought tolerance under future climate conditions. *New Phytol*, 221: 371-384. DOI: 10.1111/nph.15344.
- Cardoso JCF, Viana ML, Matias R, Furtado MT, de Souza Caetano AP, Consolaro H, de Brito VLG. 2018. Towards a unified terminology for Angiosperm reproductive systems. *Acta Bot Bras*, 32: 329-348. DOI: 10.1590/0102-33062018abb0124.
- Chaine I dan Régnier J. 2017. Process-based models of phenology for plants and animals. *Annual Review of Ecology, Evolution, and Systematics*, 48: 159-182. DOI: 10.1146/annurev-ecolsys-110316-022706.
- Damayanti F, Garvita RV, Wawangningrum H, Rahayu S. 2021. Flower development, pollen viability and pollen storage test of *Aeschynanthus radicans*. *Biodiversitas*, 22: 1940-1945. DOI: 10.13057/biodiv/d220442.
- Dewi SP, Rahayu A, Rochman N. 2015. Morfologi bunga dan viabilitas serbuk sari dari berbagai pamelos (*Citrus maxima* (Burm.) Merr.) accessions. *J Agronida*, 1: 37-45. DOI: 10.30997/jag.v1i1.130
- Dressler RL. 1981. *The Orchids Natural History and Classification*. Harvard University Press. Cambridge. 352 Press
- Efendi M. 2019. Tipe stomata dari tiga puluh dua spesies begonia alam Indonesia koleksi Kebun Raya Cibodas. *Berita Biologi*, 18: 175-183. DOI: 10.14203/beritabiologi.v18i2.3571
- Ernawati E, Gina DP, Endah S, Grafina K dan Dea A. 2021. Karakterisasi Struktur Morfologi dan Viabilitas Polen Dari Lima Kultivar Pisang

- Kepok (*Musa paradisaca* L.). *Buletin Kebun Raya*, 24: 35-41. DOI: <https://doi.org/10.14203/bkr.v24i1.xxx>
- Fewless G. 2006. *Phenology*. <https://www.uwgb.edu/biodiversity/phenology/index>
- Girmansyah D, Mark H, Sulustijorini, Rugayah, Wisnu HA, Tatik C. 2022. Six New Species of *Begonia* (Sect. *Jackia*, Begoniaceae) from Sumatra, Indonesia. *Taiwania*, 67: 97-109. DOI: 10.6165/tai.2022.67.97
- Gitz DC dan Baker JT. 2009. Methods for creating stomatal impressions directly onto archivable slides. *Agronomy Journal*, 101:232-236
- Haryanti S dan Meirina T. 2009. Optimalisasi pembukaan porus stomata daun kedelai (*Glycine max* (L) merril) pada pagi hari dan sore. *J. Bioma*, 11: 18-23. doi: 10.14710/bioma.11.1.11- 16.
- Hadiyanti N, Supriyadi, Pardono. 2018. Keanekaragaman beberapa tumbuhan ciplukan (*Phisalis* spp.) di lereng Gunung Kelud, Jawa Timur. *Berita Biologi*, 17: 91-22. DOI:10.14203/beritabiologi.v17i2.3238.
- Hasrianda EF, Zaelani A, Poerba YS. 2020. Jumlah serbuk sari, penilaian viabilitas dan perkecambahan 31 aksesori pisang (*Musa* sp.) koleksi plasma nutfah LIPI. *Berita Biologi*, 19: 197-206. DOI: 10.14203/beritabiologi.v19i2.3859.
- Hong T, Lin H, He D. 2018. Characteristics and correlations of leaf stomata in different *Aleurites montana* provenances. *PLoS ONE*, 13(12): e 0208899. DOI: 10.1371/journal.pone.0208899.
- Lestari DA. 2019. Evaluation of flowering and fruiting periods of selected Annonaceae species in Purwodadi Botanic Garden. *AIP Conf Proc*, 2120: 030023. DOI: 10.1063/1.5115627.
- Lestari DA, Ningrum LW, Nada MH, Pradipta NN, Harsono DR. 2023. Flowering and fruiting phenology of *Anaxagorea luzonensis* A. Gray (Annonaceae). *Biodiversitas*, 24: 784-792. DOI: 10.13057/biodiv/d240214.
- Middleton DJ. 2016. A revision of *Aeschynanthus* (Gesneriaceae) in Singapore and Peninsular Malaysia. *Gard Bull Sing*, 68: 1-63. DOI: 10.3850/S2382581216000016.
- Munawaroh E, Hartutiningsih MS. 2018. Upaya konservasi ex-situ Begoniaceae dari Taman Nasional Bukit Barisan Selatan di Kebun Raya Liwa, Kabupaten Lampung Barat, Provinsi Lampung. *Florea*, 5: 44-52. DOI: 10.25273/florea.v5i1.2504.
- Nasir M. 2001. *Pengantar Pemuliaan Tanaman*. Direktorat Jenderal Pendidikan Tinggi, Departemen Pendidikan Nasional. Jakarta.
- Navas-Lopez JF, León L, Rapoport HF, Moreno Alías I, Lorite IJ, de la Rosa R. 2019. Genotype, environment, and their interaction effects on olive tree flowering phenology and flower quality. *Euphytica*, 215: 184. DOI: 10.1007/s10681-019-2503-5.

- Nicotra AB, Leigh A, Boyce CK, Jones CS, Niklas KJ, Royer DL, Tsukaya H. 2011. The evolution and functional significance of leaf shape in the Angiosperms. *Funct Plant Biol*, 38: 535–552. DOI: 10.1071/fp11057.
- Papuangan N, Nurhasanah, Djurumudi M. 2014. Jumlah dan distribusi stomata pada tanaman penghijauan di Kota Ternate. *Bioedukasi*, 3: 287-292. DOI: 10.333.87/bioedu.v2i.62.
- PVTPP. 2021. *Panduan Umum Deskripsi Tanaman Hias*. Pusat Perlindungan Varietas Tanaman dan Perizinan Pertanian, Kementerian Pertanian Republik Indonesia, Jakarta.
- Rahayu S, Wawangningrum H, Garvita RV. 2015. Karakteristik morfologi dan perkembangan bunga *Aeschynanthus tricolor* Hook. (Gesneriaceae). *Berita Biologi*, 14: 203-211. DOI: 10.14203/beritabiologi.v14i3.1822.
- Reed DH, Frankham R. 2003. Correlation between fitness and genetic diversity. *Conserv Biol* 17: 230-237. DOI: 10.1046/j.1523-1739.2003.01236.x.
- Riswati MKR. 2022. Flora Begonia Kebun Raya Bogor, Lebih dari Sekedar Penelitian dan Koleksi. <https://kumparan.com/melani-kurnia-riswati/flora-begonia-kebun-raya-bogor-tak-sekedar-riset-dan-koleksi-1zPDx3JCIId/1>
- Sabina A, Sameena C. 2022. Plant growth and stomatal responses of potato cultivars under high temperature stress. *Indian J Agric Res*, 56: 18-21. DOI: 10.18805/IJARE.AF-683.
- Samudra WCP, Herawati MM. 2020. The effect of temoerature and long storage period of Petunia pollen viability (*Petuna inflata*). *J Appl Agric Res*, 20: 135-141. DOI: 10.25181/jpapt.v20i1.1626.
- Shivakumar CU, Gupta R, Thyagaraju MPC, Vishwanath K, Chakrabarty SK, Dadlani M. 2014. Pollen-pistil interaction in protogyny and self-incompability system of Indian mustard (*Brassica juncea* (L.) Coss.). *Grana*, 53: 103-110. DOI: 10.1080/00173134.2014.897750.
- Singh G, Virk HK, Aggarwal N, Khanna V, Gill KK. 2018. Growth environment effect on phenology, agroclimatic indices, symbiotic parameters and yield of kharif mungbean (*Vigna radiata* [L.] Wilczek) genotypes. *J Food Legumes*, 31: 205–208. DOI: 10.54386/jam.v26i2.2577.
- Susetyarini E, Wahyono P, Latifa R, Nurrohman E. 2020. The identification of morphological and anatomical structures of *Pluchea indica*. *J Phys Conf Ser*, 1539: 012001 . DOI: 10.1088/1742-6596/1539/1/012001.
- Siregar MH, Sri W dan IM Ardaka. 2018. Karakterisasi Morfologi Daun Begonia Alam (Begoniaceae) : Prospek Pengembangan Koleksi Tanaman Hias Daun di Kebun Raya Indonesia. *Jurnal Biologi Indonesia*, 14: 201-211. DOI: 10.47349/jbi/14022018/201.

- Siregar MH. 2008. *Mengenal dan Merawat Begonia*. PT. AgroMedia Pustaka. Jakarta.
- Siregar MH. 2017. The conservation of native, lowland Indonesia Begonia species (Begoniaceae) in Bogor Botanical Gardens. *Biodiversitas*, 18: 326-333. DOI: 10.13057/biodiv/d180143.
- Suhono B, Yuzammi, Joko RW, Syamsul H, Tri H, Sugiarti, Sofi M, Teguh T, Inggit PA, Sudarmono, Hary W. 2010. *Ensiklopedia Flora Jilid 3*. PT. Kharisma Ilmu. Bogor.
- Tabla VP dan Carlos FV. 2004. Phenology and Phenotypic Natural Selection on The Flowering Time of A Deceit-Pollinated Tropical Orchid, *Myrmecophila christinae*. *Annals of Botany*, 94: 243-250.
- Thomas DC, Ardi WH, Girmansyah D, Hughes M. 2013. Sulawesi *Begonia* data portal. <http://portal.cybertaxonomy.org/floramalesiana-prospective/>
- Tjitrosoepomo G. 2020. *Morfologi Tumbuhan*. Gadjah Mada University Press, Yogyakarta.
- Trimanto, Dyah AP dan Destario M. 2020. Karakterisasi Morfologi dan Fenologi Pembungaan Dua Aksesori *Kopsia pauciflora* Hook.f. Bunga Putih dan Merah Muda di Kebun Raya Purwodadi, Jawa Timur. *Bul. Plasma Nutrafah*, 26: 77-88.
- Tuinstra MR dan J Wedel. 1999. *Estimation of Pollen Viability in Grain Sorghum*. Kansas State University. Dept. of Agronomy. Manhattan.
- Ulfa SM, Dorly, Rahayu S. 2016. Perkembangan bunga dan uji viabilitas serbuk sari bunga lipstick *Aechynanthus radicans* var. 'Monalisa' di Kebun Raya Bogor. *Bul. Kebun Raya*, 19: 21-32. DOI: 10.14203/BKR.V19I1.104.
- Wahyu A dan Lucyanti S. 2019. *Begonia, kawan para survivor*. Direktorat Jenderal Konservasi Sumber Daya Alam dan Ekosistem, Kementerian Lingkungan Hidup dan Kehutanan, Republik Indonesia. <https://ksdae.menlhk.go.id/berita/5301/Begonia-Kawan-Para-Survivor>
- Warid, Palupi ER. 2009. Correlation of in vitro germination and staining method in pollen viability testing. Paper presented in the Seminar of Agronomy and Horticulture Department, Faculty of Agriculture, IPB University, Bogor. <https://repository.ipb.ac.id/jspui/bitstream/123456789/36274/1/Makalah%20Seminar%20Warid%20A34404010> .
- Weyers JDB, Johansen LG. 1985. Accurate estimation of stomatal aperture from silicone rubber impressions. *New Phytol*, 101: 109-115. DOI: 10.1111/j.1469-8137.1985.tb02820.x.
- Widiastuti A dan ER Palupi. 2008. Viabilitas Serbuk Sari dan Pengaruh terhadap Keberhasilan Pembentukan Buah Kelapa Sawit. *Biodiversitas*, 9: 35-38.

- Wiriadinata H. 2013. A New Spesies of Begonia (Begoniaceae) From South Sulawesi Indonesia. *A Journal on Taxonomy Botany, Plant Sociology and Ecology*, 13: 391-455. DOI: 10.55981/reinwardtia.2013.428.
- Yang C, Ye Y, Song C, Chen D, Jiang B, Wang Y. 2016. Cloning and functional identification of the AcLFY gene in *Allium cepa*. *Biochem Biophys Res Comm*, 473: 1100–1105. DOI: 10.1016/j.bbrc.2016.04.022.