



DAFTAR PUSTAKA

- Abbas, M., & E. T., Sucianto. 2020. Feed Resources Determination Based on Pollen Diversity in Trigona Bees (*Trigona* sp.) Colony. *Biosaintifika*, 12(3): 478 – 487.
- Abdurrahman, D. 2008. *Biologi Kelompok Pertanian*. Bandung: PT Grafindo Media Pratama. pp: 7 – 9.
- Afifah, N., E., Widajati., & E. R., Palupi. 2020. Pengembangan Uji Tetrazolium sebagai Metode Analisis Vigor Benih Botani Bawang Merah. *J. Hort. Indonesia*, 11 (2): 120-130
- Agarwal, V.R. (1983) A Study of Reading Ability in Relation to Certain Cognitive and Non-Cognitive Factors. *Asian Journal of Psychology and Education*, 11: 41-44.
- Andoko, A., & S., Koemoro. 2008. *Pesona Tanaman Purba*. Yogyakarta: AgroMedia. Hal 7-9.
- Apriani, L. D., E., Susetyarini., & S., Wahyuni. 2017. Ultrastruktur Pollen Anggrek Genus *Dendrobium* sebagai Sumber Belajar Biologi. *Jurnal Pendidikan Biologi Indonesia*, 2(3): 248 – 257.
- Banaei-Monghaddam, A. M., V. Schubert., K. Kmke., O. Weib., S. Klemme., K. Nagaki., J. Macas., M. Gonzales-Sanchez., V. Heredia., D. Gomes-Revilla., M. Gonzalez-Garcia., J.M. Vega., M. J. Puertas., & A. Houben. 2012. Nondisjunction in Favor of a Chromosome: The Mechanism of Rye B Chromosome Drive during Pollen Mitosis. *The Plant Cell Preview*, 25: 1 – 11.
- Barlian, J., D., Rinawan., & Nusrhaybi. 1998. Pengujian Cepat Viabilitas Benih Pinus (*Pinus merkusii*) dengan Kontras Radiography. *Bul. Argon*, 26 (3): 18 – 24.
- Barua, C. C., P. Haloi., & I. C., Barua. 2015. *Gnetum gnemon* Linn. : A Comprehensive Review on its Biological, Pharmacological and Pharmacognostical Potentials. *International Journal of Pharmacognosy and Phytochemical Research*, 7(3): 531 – 539.
- Breygina, M., E., Klimenko., & O. Schekaleva. 2021. Pollen Germination and Pollen Tube Growth in Gymnosperms. *Plants*, 10: 1 – 16.
- Carchilan, M., M. Delgado., T. Ribeiro., P. Costa-Nunes., A. Caperta., L. Moraes-Cecílio., R. N. Jones., W. Viegas., & A. Houben. 2007. Transcriptionally active heterochromatin in rye B chromosomes. *Plant Cell*, 19: 1738–1749.
- Carmichael, J. S., & W. E., Friedman. 1996. Double Fertilization In *G. gnemon* (Gnetaceae): Its Bearing on The Evolution Of Sexual Reproduction Within The Gnetales and The Anthophyte Clade. *American Journal of Botany*, 83(6): 767 – 780.
- De Storme, N., & D. Geelen. 2014. Callose Homeostasis at Plasmodesmata: Molecular Regulators and Developmental Relevance. *Front. Plant Sci*, 113: 489 – 500.
- Donoghue, M. J., & J. A., Doyle. 2000. Seed Plant Phylogeny: Demise of The Anthophyte Hypothesis?. *Current Biology*, 10: 106–109.
- Duffield, J. W., & R. Z., Callaham. 1959. Deep-freezing Pine Pollen. *Silvae Genet*, 8(1):22 – 24.



Struktur Morfologis dan Fertilitas Polen Melinjo (*Gnetum Gnemon L.*) Berbasis Data Mikroskopi

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- Elevitch, C. R. 2006. *Traditional Trees of Pacific Islands: Their Culture, Environment, and Use*. USA: Permanent Agriculture Resources (PAR). pp: 386 – 387.
- Erdtman, G. 1952. *Pollen Morphology and Plant Taxonomy. Angiosperms: Chronica Botanica*. Stockholm: Almqvist and WIksell. pp. 200 – 205.
- Erdtman, G., P., Leins., R., Melville., & C. R., Metcalfe. 1969. On the Relationships of *Emblingia*. *Bot. J. Linn. SOC.*, 62: 169 – 186.
- Fariroh, I., E. R., Palupi., & F. C., Suwarno. 2017. Penyimpanan Serbuk Sari Jagung dan Potensinya untuk Produksi Benih Hibrida. *J. Argon. Indonesia*, 45 (2): 146 – 153.
- Furness, C. A. 2007. Why Does Some Pollen Lack Apertures? A Review of Inaperturate Pollen in Eudicots. *Botanical Journal of the Linnean Society*, 155: 29–48.
- Garbacz, H., & A., Królikowski. 2019. Corrosion Resistance of Nanocrystalline Titanium. *Elsevier science*, 38: 145-173.
- Gati, E. 2016. *Pemuliaan Tanaman Melalui Induksi Mutasi dan Kultur In Vitro*. Jakarta: IAARD Press. pp: 34 – 35.
- Gilbert, J. C., & D. C., McGuire. 1952. Root-Knot Resistance in Commercial Type Tomatoes in Hawaii. *Proc. Am. Soc. Hort. Sci.*, 60: 419 – 421.
- Gollmick, F. 1942. On the Longevity of Grape Pollen. *Angew. Botan*, 24: 221 – 224.
- Gottardini, E., Cristofori, A., Cristofolini, F., Maccherini, S. and Ferretti, M. 2008 Ambient Levels of Nitrogen Dioxide (NO_2) May Reduce Pollen Viability in Austrian Pine (*Pinus nigra* Arnold) Trees—Correlative Evidence from a Field Study. *Science of the Total Environment*, 402: 299 – 305.
- Gruwez, R., P. D., Frenne., A. D., Schrijver., & K., Verheyen. 2013. Negative Effects of Temperature and Atmospheric Depositions on The Seed Viability of Common Juniper (*Juniperus communis*). *Annals of Botany*, 113: 489–500.
- Gusmalawati, D., M. F., Huda., S. M., Fauziah., Y. E., Banyo., & Z., Abidin. 2021. Karakterisasi Morfologi Polen dari Sepuluh Jenis Tumbuhan dari Famili yang Berbeda. *Jurnal Teknologi Terapan*, 4(2): 303 – 308.
- Handayani, D. P. 2014. *Peningkatan Viabilitas Serbuk Sari Jagung dengan Pemupukan NPK dan Boron, dan Pemanfaatannya dalam Produksi Benih Hibrida*. Tesis Institut Pertanian Bogor. Pp. 1 – 57.
- Hasanuddin. 2018. *Botani Tumbuhan Tinggi*. Aceh: Syiah Kuala University Press Darussalam. pp: 63 – 65.
- Hasegawa, N. 1934. A Cytological Study on 8-Chromosome Rye. *Cytologia*, 6: 68– 77.
- Hayrapetyan, A. M. 2008. Features of The Exine Ornamentation of Pollen Grains In The Family Solanaceae Juss. I. The Simple Types of Ornamentation. *National Academy of Sciences of RA Electronic Journal of Natural Sciences*, 2(11): 46 – 50.
- Hesse, M. 1980. Pollenkitt is Lacking in *G. gnemon* (Gnetaceae). *Plant Systematics and Evolution*, 136: 41 – 46.
- Hesse, M., H. Halbritter., M. Weber., R. Buchner., A. F. Radivo., S. Ulrich., & R. Zetter. 2009. *Pollen Terminology: An Illustrated Handbook*. Austria: Springer. pp: 29 – 31.



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GADJAH MADA



- Hesseltine, C. W., & E. B., Snyder. 1958. Attempts to Freeze-dry Pine. Pollen for Prolonged Storage. *Bull. Torrey Bot. Club.* 85: 134-135.
- Howard, H. W. 1958. The Storage of Potato Pollen. *Am. Potato J.* 35:676 – 678.
- ITIS.gov. 2010. *G. gnemon* L. Diakses pada 30 Maret 2022, dari https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=183503#null
- Izah, U. N. 2008. *Pengaruh Suhu dan Lama Penyimpanan terhadap Viabilitas Polen Tanaman Anggur*. Skripsi Universitas Islam Negeri Malang. Pp. 45 – 51.
- Jayanti, U.N. A. D. 2020. *Keanekaragaman Tumbuhan: Modul Inkuiiri Berbasis Potensi dan Kearifan Lokal*. Malang: Ahlimedia Book. pp. 43 – 44.
- Kairani, A. 2010. *Pengawetan Polen Melinjo (Gnetum gnemon Linn.) dengan Beberapa Pelarut Organik*. Skripsi Universitas Andalas. pp: 1 – 4.
- Katifori, E., S. Alben., E. Cerda., D. R., Nelson., & J. Dumais. 2010. Foldable Structures and The Natural Design of Polen Grains. *Proc.Natl.Acad.Sci.U.S.A*, 107(17); 7635 – 7639.
- Khairunnufus, N. 2021. Karakter Morfologis dan Perkembangan Anatomis Bunga Jantan Melinjo (*G. gnemon* L.). Skripsi Universitas Gadjah Mada. Pp: 15 – 35.
- Kremp, O. W. 1965. *Morphologic Encyclopedia of Palynology*. Univ.of Arizona Press Tucson, pp. 263.
- Kuhlwein, H. 1937. Zur Physiologie Der Pollenkeimung Inbesondere Der Frage Nach Dem Befruchtungsversuch Bei Gymnospermen. *Beih. Bot. Centralb*, 57: 37 – 104.
- Lau, T. C., X., Lu., R. T., Koide., & A. G., Stephenson. 1995. Effects of Soil Fertility and Mycorrhizal Infection on Pollen Production and Pollen Grain Size of *Cucurbita pepo* (Cucurbitaceae). *Plant, Cell and Environment*, 18: 169 – 177.
- Marschner, H. 1995. *Functions of Mineral Nutrients: Micronutrients*. In: *Mineral Nutrition of Higher Plants, 2nd Edition*. London: Academic Press. pp: 313-404.
- Müntzing, A., & R. Prakken. 1941. Chromosomal Aberrations in Rye Populations. *Hereditas*, 27: 273–308.
- Muroyama, A., & D., Bergmann. 2019. Plant Cell Polarity: Creating Diversity From Inside The Box. *Ann Rev Cell Dev Biol*, 35:309–336
- Nguyen, D. X., P. D.. Bos.,& J. Massague. 2009. Metastasis: From Dissemination to Organ-Specific Colonization. *Nat Rev Cancer*, 9(4): 274 – 284.
- NParks Flora & Fauna Web. 2021. *Gnetum gnemon* L. Diakses pada 22 Maret 2021, dari <https://www.nparks.gov.sg/florafaunaweb/flora/2/9/2942>
- Osborn, J. M. 2000. Pollen Morphology and Ultrastructure of Gymnospermous Anthophytes. *Pollen and spores: Morphology and Biology*, 10: 163 – 185.
- Pacini, E., & G. G. Franchi. 2000. Types of Pollen Dispersal Units in Monocots. *Monocots: Systematics and Evolution*, 2: 295 – 300.
- Pacini, E., & M. Hesse. 2002. Types of Pollen Dispersal Units in Orchids, and their Consequences for Germination and Fertilization. *Ann. Bot*, 89(6): 653 – 664.
- Pfeiffer, N. E. 1936. Longevity of pollen of *Lili'um* and hybrid *Amol'yllis*. *Contrib. Boyce Thompson Inst*, 8:41—50.
- Qi, J., & T., Greb. 2017. Cell polarity in plants: The Yin and Yang of Cellular Functions. *Curr Opin Plant Biol*, 35: 105–110.



- Qureshi, S. J., A. G., Awan., M. A., Khan., & S. Bano. 2002. Study of Pollen Fertility of the Genus *Launaea* from Pakistan. *Asian Journal of Plant Species*, 1 (1): 73 – 74.
- Rahmawati, D., & Prayitno. 2013. Viabilitas Polen Cabai Keriting (Ck004) pada Berbagai Kombinasi Pengeringan dan Lama Penyimpanan. *Jurnal Ilmiah INOVASI*, 13(3): 212 – 216.
- Ridha, R. 2016. Uji Viabilitas Polen Beberapa Varietas Padi (*Oryza sativa L.*) Introduksi. *Jurnal Penelitian*, 3 (2): 81 – 89.
- Rigamoto, R, R., & A. P. Tyagi. 2002. Pollen Fertility Status in Coastal Plant Species of Rotuma Island, *Pac. J. Nat. Sci*, 20 : 30 – 33.
- Rostini, N. 2012. 9 Strategi Bertanam Cabai Bebas Hama & Penyakit. Jakarta: PT. AgroMedia Pustaka. pp: 14 – 16.
- Sandersen, A. 2003. *A Palynological Investigation of The Offshore Cretaceous Sequence on The South-West Coast of South Africa*. Unpublished Ph.D. Thesis Submitted to University of The Witwatersrand, Johannesburg.
- Santoso, R., & E. Azwar. 2020. Pengaruh Konsentrasi Isopropanol Terhadap Karakteristik Karboksimetil Selulosa dari Batang Pisang. *Jurnal Kelitbangan*, 8(3): 253 – 264.
- Shao, W., & J., Dong. 2016. Polarity in plant asymmetric cell division: Division orientation and cell fate differentiation. *Dev Biol*, 419:121–131.
- Shaw, G., & A., Yeadon. 1966. Chemical studies on the constitution of some pollen and spore membranes. *J. Chem. Soc. (London)*, pp. 16-22.
- Sopandie, D. 2013. *Fisiologi Adaptasi Tanaman Terhadap Cekaman Abiotik Pada Agroekosistem Tropika*. Bogor: PT. Penerbit IPB Press. pp: 130 – 132.
- Stanley, R. G., & H. F., Linskersen. 1974. *Pollen: Biology Biochemistry and Management*. Berlin: Springer. pp: 13 – 213.
- Stanley, R. G., & I., Poostchi. 1962. Endogenous Carbohydrates, Organic Acids, and Pine Pollen Viability. *Silvae Genet*. 11:1 – 3.
- Stephen, 2014. International Journal of Advanced Research in Biological Sciences. *Int. J. Adv. Res. Bio.Sci*, 1(9): 45 – 62.
- Stuessy, T. F. 1990. Plant Taxonomy – The Systematic Evolution of Comparative Data. Columbia: Columbia University Press. pp: 110 – 115.
- Subantoro, R., & R. Prabowo. 2013. Pengkajian Viabilitas Benih dengan Tetrazolium Test pada Jagung dan Kedelai. *Mediagro*, 9(2): 1 – 8.
- Sudarwati, H., M. H., Natsir., & V. M. A., Nuriatiningsih. 2019. *Statistika dan Rancangan Percobaan Penerapan dalam Bidang Peternakan*. Malang: UB Press. pp: 58 – 60.
- Sumardi, I., Sutikno., & S. Susanti. 1995. Pengawetan Serbuk Sari Salak (*Salacca edulis Reinw.*) Secara *In Vitro*. *Berkala Ilmiah Biologi*, 1(10): 445 – 451.
- Tekleva, M. 2015. Pollen morphology and ultrastructure of several *Gnetum* species: an electron microscopic study. *Plant Syst Evol*, pp. 1 – 13.
- Thurman, W. N., R. R., Rucker., & M., Burgett. 2005. *Internalizing Reciprocal Benefits: The Economics of Honeybee Pollination Markets*. NC: North Carolina State University. pp: 110 – 113.
- Tschudy, R. H., & R, A., Scott. 1969. *Aspects of Palynology*. New York: Wiley-Interscience. pp: 123 – 125.



- Umami, E. K., N. N. Sa'adah., M. T., Ramadhani., O. A., Izzati., E. Nurrohman., & Y. Pantiwati. 2021. Studi Eksplorasi Morfologi Serbuk Sari Berbagai Famili Tumbuhan. *Lombok Journal of Science (Ljs)*, 3(2): 16 – 21.
- Walt, A. D. V. D. 1994. *Pollen Biology In Relation to Artificial Hybridization In The Genus Protea*. Thesis University of Stellenbosch.
- Widiastuti, A., & E. R., Palupi. 2007. Viabilitas Serbuk Sari dan Pengaruhnya terhadap Keberhasilan Pembentukan Buah Kelapa Sawit (*Elaeis guineensis* Jacq.). *Biodiversitas*, 9(1):35 – 38.
- Widiyanto, A. 2013. Agroforestry dan Peranannya dalam Mempertahankan Fungsi Hidrologi dan Konservasi. *Al-Basia*, 9 (2), 55-68.
- Worldagroforestry.org. 2021. *Gnetum gnemon*. Diakses pada 28 Februari 2022, dari <https://apps.worldagroforestry.org/treedb2/speciesprofile.php?Spid=1751>
- Yang, Z. 2008. Cell polarity signaling in Arabidopsis. *Ann Rev Cell Dev Biol*, 24: 551–575
- Yao, Y. F., Y. Z. Xi., B. Y., Geng., & C. S., Li. 2004. The exine ultrastructure of pollen grains in *Gnetum* (Gnetaceae) from China and Its Bearing on The Relationship with The ANITA Group. *Botanical Journal of the Linnean Society*, 146: 415–42.
- Zetzche, F., & H., Vicari. 1931. Untersuchungen über die Membrane der Sporen und. *Pollen, Helv. Chim. Acta*, 14: 58–78.
- Zhang, Y., & J., Dong. 2018. Cell polarity: Compassing Cell Division and Differentiation in Plants. *Curr Opin Plant Biol*, 45:127–135.