



DAFTAR PUSTAKA

- Aji, TM., Hartono, S., dan Sulandari, S. 2015. Pengelolaan kutu kebul (*Bemisia tabaci* Gen.) dengan sistem barrier pada tanaman tembakau. *Jurnal Perlindungan Tanaman Indonesia*, 15 (1) : 6–11.
- Alegbejo, MD. 2000. Whitefly transmitted plant viruses in Nigeria. *J Sustain Agr.* 17: 99–109.
- Andres, TC. 2004. *Website for The Plant Family Cucurbitaceae & Home of The Cucurbit Network*. Diakses dari <http://www.cucurbit.org/family.html> pada tanggal 5 Agustus 2013.
- Anonim_a. 2019. *Greenhouse farming information*. Diakses dari <https://www.agrifarming.in/greenhouse-farming-information> pada tanggal 2 Mei 2019.
- Anonim_b. 2015. *Model rumah kaca induk tanaman jeruk*. Diakses dari <http://balitjestro.litbang.pertanian.go.id/model-rumah-kasa-induk-tanaman-jeruk/> pada tanggal 6 Mei 2019.
- Barreto, SS., Hallwass, M., Aquino, OM., and Inoue-Nagata, AK. 2013. A study of weeds as potential inoculum sources for a tomato-infecting *Begomovirus* in central Brazil. *Phytopathology* 103:436–444.
- Blanco, L., Bernad, A., Lázaro, JM., Martín, G., Garmendia, C., and Salas, M. 1989. Highly efficient DNA synthesis by the phage phi 29 DNA polymerase. Symmetrical mode of DNA replication. *J Biol Chem.* 264: 8935–8940.
- Bridson, RW., Bull, SE., Mansoor, S., Amin, I., and Markham, PG. 2002. Universal primers for the PCR-mediated amplification of DNA β : a molecule associated with some monopartite *Begomoviruses*. *Mol Biotechnol.* 20: 315–318.
- Brown, JK., Idris, AM., Torres-Jerez, I., Banks, GK., and Wyatt, SD. 2001. The core region of the coat protein gene is highly useful for establishing the provisional identification and classification of *Begomoviruses*. *Arch Virol.* 146: 1–18.
- Bull, SE., Bridson, RW., and Markham, PG. 2003. Universal primers for the PCR-mediated amplification of DNA1: a satellite-like molecule associated with *Begomovirus*-DNA β complexes. *Mol Biotechnol.* 23: 83–86.
- Butterbach, P., Verlaan, MG., Dulleman, A., Lohuis, D., Visser, RFG., Bai, Y., and Kormelink, R. 2014. *Tomato yellow leaf curl virus* resistance by Ty-1 involves increased cytosine methylation of viral genomes and is compromised by *Cucumber mosaic virus* infection. *Proc Natl Acad Sci USA* 111: 12942–12947.
- Camara, M., Mbaye, AA., Samb, PI., Diao, S., and Cilas, C. 2013. Field screening of tomato genotypes for resistance to *Tomato yellow leaf curl virus* (TYLCV) disease in Senegal. *Crop Protect* 44: 59–65.
- Carrillo-Tripp, J., Lozoya-Gloria, E., and Rivera-Bustamante, RF. 2007. Symptom remission and specific resistance of pepper plants after infection by *Pepper golden mosaic virus*. *Phytopathology* 97:51–59.
- Chang, HH., Ku, HM., Tsai, WS., Chien, RC., and Jan, FJ. 2010. Identification and characterization of a mechanical transmissible *Begomovirus* causing leaf curl on oriental melon. *Eur J Plant Pathol.* 127 : 219 – 228.
- Culley, AI., Lang, AS., and Sutte, CA. 2006. Metagenomic analysis of coastal RNA virus communities. *Science* 312 : 1795–1798.



- Dagnoko, S., Haanson P., Fufa, F., and Kollo, IA. 2011. Preliminary performance of tomato breeding lines for yield, fruit quality and resistance to Tomato yellow leaf curl disease. *Acta Hort.* 911: 455–468.
- Daryono, BS. 2006. Resistance to cucurbit viruses in several genotypes of melon (*Cucumis melo* L.). *Berkala Ilmiah Biologi* 5 (1) : 1-12.
- Daryono, BS., Alaydrus, Y., Natsuaki, KT., and Somowiyarjo, S. 2016. Inheritance of resistance to *Kyuri green mottle mosaic virus* in melon. *SABRAO Journal of Breeding and Genetics*, 48 (1) : 33-40.
- Daryono, BS., and Natsuaki, KT. 2002. Application of random amplified DNA markers for detection of resistant cultivars of melon (*Cucumis melo* L.) against cucurbit virus. *Acta Hort.* 588:321-329.
- Daryono, BS., Hadi, R., Sidiq, Y., dan Maryanto, SD. 2014. Phenotypic characters stability of melodi gama-3 melon (*Cucumis melo* L.) cultivar in rainy season based on multilocation test. *IPTEK, Journal of Proceeding Series*, 1 : 550-554.
- Dean, FB., Nelson, JR., Giesler, TL., and Lasken, RS. 2001. Rapid amplification of plasmid and phage DNA using Phi 29 DNA polymerase and multiply-primed rolling circle amplification. *Genome Res.* 11: 1095–1099.
- DeBary, HA. 1879. *Die Erscheinung der Symbiose*. Strasburg. Dalam Roossinck, MJ. 2015. Plants, viruses and the environment : Ecology and mutualism. *Virology* 479-480 : 271–277.
- Djikeng, A., Kuzmickas, R., Anderson, NG., and Spiro, DJ. 2009. Metagenomic analysis of RNA viruses in a fresh water lake. *PLoS One* 4 : e7264.
- Dolores, LM. 1996. Management of Pepper Viruses. *Proceeding on the AVNET II Final Workshop Philippines 21-25 Februari 1995*. AVRDC. Pp.: 334-342.
- Doyle, J. 1991. *DNA protocols for plants*. In: Hewitt, GM., et al., editors. *Molecular Techniques in Taxonomy*, Vol 57 NATO ASI Series. Berlin Heidelberg: Springer.
- Doyle, JJ., and Doyle, JL. 1990. Isolation of plant DNA from fresh tissue. *Focus*.12: 13–15.
- Eagle, PA., Orozco, BM., and Hanley-Bowdoin, L. 1994. A DNA-sequence required for geminivirus replication also mediates transcriptional regulation. *Plant Cell* 6: 1157–1170.
- FAO. 2019. *FAOSTAT: Crops*. Food and Agriculture Organization of the United Nations. <http://www.fao.org/faostat/en/#data/QC>. Diakses 18 Desember 2019.
- Fauquet, CM., and Stanley, J. 2003. Geminivirus classification and nomenclature: progress and problems. *Ann Appl Biol* 142:165-89.
- Fauquet, CM., Briddon, RW., Brown, JK., Moriones, E., Stanley, J., Zerbini, M., and Zhou, X. 2008. Geminivirus strain demarcation and nomenclature. *Arch. Virol.* 153:783-821.
- Hadi, R. 2014. Karakter fenotip melon (*Cucumis melo* L.) kultivar Melodi Gama-3 hasil uji multilokasi dan multimusim. *Skripsi*. Fakultas Biologi, Universitas Gadjah Mada, UGM.
- Haerunisa, R., Suastika, G., dan Damayanti, TA. 2016. Identifikasi *Begomovirus* yang berasosiasi dengan penyakit kuning pada mentimun di Jawa Barat dan Bali. *J. Hort. Indonesia* 7 (1) : 9-20.
- Hagen, C., Rojas, MR., Kon, T., and Gilbertson, RL. 2008. Recovery from *Cucurbit leaf crumple virus* (family Geminiviridae, genus *Begomovirus*) infection is an adaptive antiviral response associated with changes in viral small RNAs. *Phytopathology* 98:1029-1037.



- Halawa, AI. 2017. Pengaruh energi cahaya lampu tube luminescence berwarna terhadap pertumbuhan bayam merah (*Amaranthus gangeticus* L.) yang dibudidayakan secara hidroponik dalam greenhouse. *Skripsi*. Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Hanley-Bowdoin, L., Bejarano, ER., Robertson, D., and Mansoor, S. 2013. Geminiviruses: masters at redirecting and reprogramming plant processes. *Nat Rev Microbiol.* 11:777–788.
- Hanley-Bowdoin, L., Settlege, SB., Orozco, BM., Nagar, S., and Robertson, D. 2000. Geminiviruses: models of plant DNA replication, transcription, and cell cycle regulation. *Crit Rev Plant Sci* 35(2): 105-40.
- Harrison, BD., and Robinson, DJ. 1999. Natural genomic and antigenic variation in whitefly-transmitted Geminiviruses (*Begomoviruses*). *Annu Rev Phytopathol* 37: 369–398.
- Harrison, BD., and Robinson, DJ. 2002. Green shoots of geminivirology. *Physiol Mol Plant Pathol.* 60: 215–218.
- Hernandez-Zepeda, C., Idris, AM., Carnevali, G., Brown, JK., Moreno-Valenzuela, OA. 2007. Preliminary identification and coat protein gene phylogenetic relationships of begomoviruses associated with native flora and cultivated plants from the Yucatan Peninsula of Mexico. *Virus Genes* 35: 825–833.
- Hopkins, DW., Swanson, MM., and Taliansky, ME. 2014. *What do we know about viruses in terrestrial Antarctica?* . In: Cowan, DA.(Ed.), *Antarctic Terrestrial Microbiology*. Springer-Verlag, Berlin. Pp.79–90.
- Idris, A., Al-Saleh, M., Piatek, MJ., Al-Shahwan, I., Ali, S., and Brown, JK. 2014. Viral metagenomics: validation of genome enrichment coupled with next generation sequencing reveals reproducibility between laboratory and field samples, and reveals polymorphisms in *Begomovirus* populations from natural plant infections. *Viruses* 6:1219.
- Idris, AM., and Brown, JK. 1998. Sinaloa tomato leaf curl geminivirus: biological and molecular evidence for a new subgroup III virus. *Phytopathology* 88: 648–657.
- Inoue-Nagata, AK., Albuquerque, LC., Rocha, WB., and Nagata, T. 2004. A simple method for cloning the complete *Begomovirus* genome using the bacteriophage ϕ 29 DNA polymerase. *J Virol Methods.* 116: 209–211.
- Inoue-nagata, AK., Lima, MF., and Gilbertson, RL. 2016. A review of geminivirus (*Begomovirus*) diseases in vegetables and other crops in brazil: current status and approaches for management. *Horticultura brasileira* 34: 008-018.
- Ji, Y., Scott, JW., Hanson, P., Graham, E., and Maxwell, DP. 2007. *Sources of resistance, inheritance, and location of genetic loci conferring resistance to members of the tomato-infecting Begomoviruses*. In: Czosnek H, editor. *Tomato Yellow Leaf Curl Virus Disease*. Dordrecht: Springer. pp. 343–362.
- Johne, R., Muller, H., Rector, A., van Ranst, M., and Stevens, H. 2009. Rolling-circle amplification of viral DNA genomes using phi29 polymerase. *Trends Microbiol.* 17: 205–211.
- Jones, DR. 2003. Plant viruses transmitted by whiteflies. *Eur. J. Plant Pathol.* 109:195-219.
- Juliantono, I., Somowiyarjo, S., Trisyono, YA., dan Daryono, BS. 2010. Kejadian penyakit daun keriting melon di Jawa Timur dan Daerah Istimewa Yogyakarta. *Jurnal Perlindungan Tanaman Indonesia*, 16 (2) : 76–81
- Kim, K-H., Chang, H-W., Nam, Y-D., Roh, SW., Kim, M-S., Sung, Y., Jeon, CO., Oh, H-M., and Bae, J-W. 2008. Amplification of uncultured single-stranded DNA viruses from rice paddy soil. *Appl. Environ. Microbiol.* 74 : 5975–5985.



- King, AMQ., Adams, MJ., Carstens, EB., and Lefkowitz, EJ. (Ed). 2012. *Virus Taxonomy Ninth Report of the International Committee on Taxonomy of Viruses*. Elsevier Academic Press, San Diego, CA, p.1327.
- Kumar, S., Srivastava, A., Kumari, A., Raj, R., Jaidi, M., and Raj, SK. 2017. *Begomovirus Disease Management Measures, Now and Then*. In S. Saxena, A. K. Tiwari (eds.), *Begomoviruses: Occurrence and Management in Asia and Africa*. Springer Nature Singapore. Pp. 71-92.
- Kyallo, M., Ateka, EM., Sseruwagi, P., Ascencio-Ibáñez, JT., Ssemakula, MO., Skilton, R., and Ndunguru, J. 2017. Infectivity of *Deinbollia mosaic virus*, a novel weed-infecting *Begomovirus* in East Africa. *Arch Virol*. 162:3439–3445.
- Lacroix, C., Seabloom, EW, and Borer, ET. 2014. Environmental nutrient supply alters prevalence and weakens competitive interactions among coinfecting viruses. *New Phytol*. 204: 424–433.
- Lapidot, M., and Friedmann, M. 2002. Breeding for resistance to whitefly-transmitted geminiviruses. *Ann. Appl. Biol*. 140:109-127.
- Lapidot, M., Friedmann, M., Pilowsky, M., Ben-Joseph, R., and Cohen, S. 2001. Effect of host plant resistance to *Tomato yellow leaf curl virus* (TYLCV) on virus acquisition and transmission by its whitefly vector. *Phytopathology* 91:1209-1213.
- Legg, JP., and Fauquet, CM. 2004. Cassava mosaic geminiviruses in Africa. *Plant Mol Biol*. 56: 585–99.
- Leke, WN., Mignouna, DB., Brown JK., and Kvarnheden, A. 2015. *Begomovirus* disease complex: emerging threat to vegetable production systems of West and Central Africa. *Agriculture & Food Security* 4 (1) : 1-14. DOI 10.1186/s40066-014-0020-2.
- Li, L., Victoria, JG., Wang, C., Jones, M., Fellers, GM., Kunz, TH., and Delwart, E. 2010. Bat guano virome: predominance of dietary viruses from insects and plants plus novel mammalian viruses. *J. Virol*. 84: 6955–6965.
- Lingga, P. 2005. *Hidroponik bercocok tanam tanpa tanah*. Jakarta : Penebar Swadaya.
- Mansoor, S., Briddon, RW., Zafar, Y., and Stanley, J. 2003. Geminivirus disease complexes: an emerging threat. *Trends Plant Sci*. 8:128-134.
- Medina-Hernández, D., Rivera-Bustamante, R., Tenllado, F., and Holguín-Peña, RJ. 2013. Effects and effectiveness of two RNAi constructs for resistance to *Pepper golden mosaic virus* in *Nicotiana benthamiana* plants. *Viruses* 5: 2931–2945.
- Mehle, N., and Ravnkar, M. 2012. Plant viruses in aqueous environment-survival, water mediated transmission and detection. *Water Res*. 46 : 4902–4917.
- Mudmainah, S., dan Purwanto. 2010. Deteksi begomovirus pada tanaman cabai merah dengan I-ELISA test dan teknik PCR. *J. Agroland* 17 (2) : 101 – 107.
- Navot, N., Pichersky, E., Zeidan, M., Zamir, D., and Czosnek, H. 1991. *Tomato yellow leaf curl virus*: a whitefly-transmitted geminivirus with a single genomic component. *Virology* 185:151–161.
- Nelson, PV. 1981. *Green house operation and management*. Virginia : Reston Publishing Company, Inc. Di dalam : Tika, IW. 1986. Disain green house untuk tanaman melon dengan sistem hidroponik di Kabupaten Bogor. *Skripsi*. Fakultas Teknologi Pertanian, Institut Pertanian Bogor. P. : 22.
- Ng, TFF., Chen, LF., Zhou, Y., Shapiro, B., Stiller, M., Heintzman, PD., Varsani, A., Kondov, NO., Wong, W., Deng, X., Andrews, TD., Moorman, BJ., Meulendyk, T., MacKay, G., Gilbertson, RL., and Delwart, E. 2014. Preservation of viral genomes in 700-y-old caribou feces from a subarctic ice patch. *Proc. Natl. Acad. Sci. USA*. 111: 16842–16847.



- Ozores-Hampton, M., Stansly, P.A., and McAvoy, E. 2013. Evaluation of round a Roma-type tomato varieties and advanced breeding lines resistant to *Tomato yellow leaf curl virus* in Florida. *Hort Technology* 23: 689–698.
- Padidam, M., Beachy, R.N., and Fauquet, C.M. 1996. The role of AV2 (“precoat”) and coat protein in viral replication and movement in tomato leaf curl geminivirus. *Virology* 224: 390–404.
- Phan, T.G., Kapusinszky, B., Wang, C., Rose, R.K., Lipton, H.L., and Delwart, E.L. 2011. The fecal viral flora of wild rodents. *PLoS Pathog.* 7: e102218.
- Pusat Data dan Sistem Informasi Pertanian. 2012. *Statistik Pertanian. Agricultural Statistics 2012*. Kementerian Pertanian. Didownload dari http://pusdatin.deptan.go.id/admin/satlak/Statistik_Pertanian_2012.pdf pada tanggal 15 Agustus 2013.
- Quintela, E.D., Abreu, A.G., Lima, J.F.S., Mascarin, G.M., dos Santos, J.B., and Brown, J.K. 2016. Reproduction of the whitefly *Bemisia tabaci* (Hemiptera: Aleyrodidae) B biotype in maize fields (*Zea mays* L.) in Brazil. *Pest Manag. Sci.* DOI 10.1002/ps.4259.
- Rampersad, S.N., and Umaharan, P. 2003. Detection of *Begomoviruses* in clarified plant extracts: a comparison of standard, direct-binding, and immunocapture PCR techniques. *Phytopathology* 93: 1153–1157.
- Revell, P.A., Ha, C.V., Porchum, S.C., Vu, M.T., and Dale, J.L. 2003. The complete nucleotide sequence of two distinct Geminiviruses infecting Cucurbits in Vietnam. *Arch Virol* 148: 1523–1541.
- Reyes, M.I., Nash, T.E., Dallas, M.M., Ascencio-Ibáñez, J.T., and Hanley-Bowdoin, L. 2013. Peptide aptamers that bind to geminivirus replication proteins confer a resistance phenotype to *tomato yellow leaf curl virus* and *tomato mottle virus* infection in tomato. *J Virol.* 87: 9691–9706.
- Ribeiro, S.G., Lohuis, H., Goldbach, R., and Prins, M. 2007. *Tomato chlorotic mottle virus* is a target of RNA silencing but the presence of specific short interfering RNAs does not guarantee resistance in transgenic plants. *J Virol* 81:1563–1573.
- Robinson, R.W., and Decker-Walters, D.S. 1999. *Cucurbits*. CAB INTERNATIONAL. Oxon, UK.
- Rodelo-Urrego, M., Pagan, I., Gonzalez-Jara, P., Betancourt, M., Moreno-Letelier, A., Ayllon, M.A., Fraile, A., Pinero, D., and Garcia-Arenal, F. 2013. Landscape heterogeneity shapes host–parasite interactions and results in apparent plant–virus co-divergence. *Mol. Ecol.* 22 : 2325–2340.
- Rodrigues, G.B., Sobrinho, G.G.R., Mituti, T., Filho, A.B., Amorim, L., Rezende, J.A.M., and de Novaes, Q.S. 2019. Etiology, occurrence and epidemiology of a *Begomovirus* disease in passionflower in the southwest of Bahia. *Sci. Agric.* 76 (4) : 337–343.
- Rojas, M.R., Gilbertson, R.L., Russell, D.R., and Maxwell, D.P. 1993. Use of degenerate primers in the polymerase chain reaction to detect whitefly transmitted geminiviruses. *Plant Dis.* 77: 340–347.
- Rojas, M.R., Hagen, C., Lucas, W.J., and Gilbertson, R.L. 2005. Exploiting chinks in the plant’s armor: Evolution and emergence of geminiviruses. *Annu. Rev. Phytopathol.* 43:361–394.
- Roossinck, M.J. 2012. Plant virus metagenomics: biodiversity and ecology. *Ann. Rev. Genet.* 46 : 357–367.
- Roossinck, M.J. 2015. Plants, viruses and the environment : Ecology and mutualism. *Virology* 479–480 : 271–277.
- Roossinck, M.J., and García-Arenal, F. 2015. Ecosystem simplification, biodiversity loss and plant virus emergence. *Curr. Opin. Virol.* 10: 56–62.



- Roossinck, MJ., Martin, DP., and Roumagnac, P. 2015. Plant virus metagenomics: advances in virus discovery. *Phytopathology* 105 (6) : 716-727.
- Rosario, K., Nilsson, C., Lim, YW., Ruan, Y., and Breitbart, M. 2009. Metagenomic analysis of viruses in reclaimed water. *Environ. Microbiol.* 11 : 2806–2820.
- Saiki, RK., Gelfand, DH., Stoffel, S., Scharf, SJ., Higuchi, R., Horn, GT., Mullis, KB., and Erlich, HA. 1988. Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase. *Science* 239: 487–491.
- Salati, R., Nahkla, MK., Rojas, MR., Guzman, P., Jaquez, J., Maxwell, DP., and Gilbertson, RL. 2002. *Tomato yellow leaf curl virus* in the Dominican Republic: characterization of an infectious clone, virus monitoring in whiteflies, and identification of reservoir hosts. *Phytopathology* 92: 487–96.
- Sanderfoot, AA., Ingham, DJ., and Lazarowitz, SG. 1996. A viral movement protein as a nuclear shuttle. *Plant Physiol* 110: 23-33.
- Saunders, K., Bedford, ID., Yahara, T., and Stanley, J. 2003. Aetiology: the earliest recorded plant virus disease. *Nature* 422: 831.
- Seal, S. E., van den Bosch, F., and Jeger, M. J. 2006. Factors influencing *Begomovirus* evolution and their increasing global significance: Implications for sustainable control. *Crit. Rev. Plant Sci.* 25:23-46.
- Sebastian, P., Schaefer, H., Telford, IRH., and Renner, SS. 2010. Cucumber (*Cucumis sativus*) and Melon (*C. melo*) Have Numerous Wild Relatives in Asia and Australia, and The Sister Species of Melon is From Australia. *PNAS Early Edition*: 1 – 5.
- Septariani, DN., Hidayat, SH., dan Nurhayati, E. 2014. Identifikasi penyebab penyakit daun keriting kuning pada tanaman mentimun. *J. HPT Tropika* 14 (1) : 80-86.
- Sidiq, Y. 2014. Identification and development of molecular markers sequence characterized amplified region adrift resistance gene against melon (*Cucumis melo* L.). Thesis. Faculty of Biology, Universitas Gadjah Mada, Yogyakarta.
- Silva, FN., Lima, ATM., and Rocha, CS. 2014. Recombination and pseudorecombination driving the evolution of the *Begomoviruses tomato severe rugose virus* (ToSRV) and *tomato rugose mosaic virus* (ToRMV): two recombinant DNA-A components sharing the same DNA-B. *Virol J* 11:66.
- Soeseno, S. 1985. *Bercocok tanam secara hidroponik*. Jakarta : Gramedia. Di dalam : Tika, IW. 1986. Disain green house untuk tanaman melon dengan sistem hidroponik di Kabupaten Bogor. *Skripsi*. Fakultas Teknologi Pertanian, Institut Pertanian Bogor. Pp. : 22.
- Stanley, J., Bisaro, DM., Briddon, RW., Brown, JK., Fauquet, CM., Harrison, BD., Rybicki, EP., and Stenger, DC. *Family Geminiviridae*. In: Fauquet, CM., Mayo, MA., Maniloff, J., Desselberger, U., Ball, LA., editor. 2005. *Virus Taxonomy, VIIIth Report of the ICTV*. London: Elsevier/Academic Press. Pp. 301 – 326.
- Stobbe, AH., and Roossinck, MJ. 2014. Plant virus metagenomics: what we know and why we need to know more. *Front. Plant Sci.* 5 : 150.
- Storey, HH., and Nichols, RW. 1938. Studies of the mosaic diseases of cassava. *Ann Appl Biol.* 25: 790–806.
- Subiastuti, AS., Fatmawati, UE., and Daryono, BS. 2017. Detection of resistance against *Begomovirus* using a SCAR marker in melon (*Cucumis melo* L. cv. Hikapel). In Isnansetyo, A. and Nuringtyas, TR. (eds.). *Proceeding of the 1st International Conference on Tropical Agriculture*. Springer International Publishing. Pp. : 13-21.
- Subiastuti, AS., Hartono, S., and Daryono, BS. 2019. Detection and identification of *Begomovirus* infecting Cucurbitaceae and Solanaceae in Yogyakarta, Indonesia. *Biodiversitas* 20 (3) : 738-744.



- Sudiono, Hidayat, SH., Suseno, R., dan Sosromarsono, S. 2001. Deteksi molekuler dan uji kisaran inang virus gemini asal tanaman tomat. *Prosiding Kongres Nasional XVI dan Seminar Ilmiah Perhimpunan Fitopatologi Indonesia, Bogor, 22-24 Agustus*. Di dalam Mudmainah, S. dan Purwanto. 2010. Deteksi *Begomovirus* pada tanaman cabai merah dengan I-ELISA test dan teknik PCR. *J. Agroland* 17 (2) : 101-107.
- Sufrin-Ringwald, T., and Lapidot, M. 2011. Characterization of a synergistic interaction between two cucurbit-infecting *Begomoviruses*: *Squash leaf curl virus* and *Watermelon chlorotic stunt virus*. *Phytopathology* 101:281-289.
- Suhardiyanto, H. 2009. *Teknologi rumah tanaman untuk iklim tropika basah "Pemodelan dan pengendalian lingkungan"*. Bogor: IPB Press.
- Sulandari, S., Suseno, R., Hidayat, SH., Harjosudarmo, J., dan Sosromarsono, S. 2006. Deteksi dan kajian kisaran inang virus penyebab penyakit daun keriting kuning cabai. *Hayati* 13 (1) : 1 – 6.
- Tahir, M., Amin, I., and Haider, MS. 2015. *Ageratum enation virus*—a *Begomovirus* of weeds with the potential to infect crops. *Viruses* 7:647–665.
- Tamaki, H., Zhang, R., Angly, FE., Nakamura, S., Hong, PY., Yasunaga, T., Kamagata, Y., and Liu, WT. 2012. Metagenomic analysis of DNA viruses in a wastewater treatment plant in tropical climate. *Environ. Microbiol.* 14: 441–452.
- Thresh, JM., Otim-Nape, GW., Legg, JP., and Fargette, D. 1997. *African cassava mosaic virus* disease: the magnitude of the problem. *Afri J Root Tub Crops*. 2: 13–19.
- Tiendrébéogo, F., Lefeuvre, P., and Hoareau, M. 2012. Evolution of *African cassava mosaic virus* by recombination between bipartite and monopartite *Begomoviruses*. *Viol J* 9:67.
- Tim Bina Karya Tani. 2009. *Budidaya Tanaman Melon: Teknik Budidaya dan Penanganan Pasca Panen*. Yrama Widya. Bandung.
- Tjitrosoepomo, G. 1989. *Taksonomi Tumbuhan Spermatophyta*. Gadjah Mada University Press. Yogyakarta.
- Trisno, J., Hidayat, SH., Habazar, T., Manti, I., and Jamsari. 2009. Detection and Sequence Diversity of *Begomovirus* Associated with Yellow Leaf Curl Disease of Pepper (*Capsicum annum*) in West Sumatra, Indonesia. *Microbiol Indones.* 3 (2) : 56 - 61.
- Vanithatani, R., Chellappan, P., and Fauquet, CM. 2003. Short interfering RNA-mediated interference of gene expression and viral DNA accumulation in cultured plant cells. *Proc Natl Acad Sci USA* 100:9632–9636.
- vanMölken, T., and Stuefer, J. 2011. The potential of plant viruses to promote genotypic diversity via genotype X environment interactions. *Ann.Bot.*107: 1391–1397.
- Varma, A., and Malathi, VG. 2003. Emerging geminivirus problems: A serious threat to crop production. *Ann. Appl. Biol.* 142:145-164.
- Varsani, A., Navas-Castillo, J., Moriones, E., Hernandez-Zepeda, C., Idris, A., Brown, JK., Murilo Zerbini, F., and Martin, DP. 2014. Establishment of three new genera in the family Geminiviridae: *Becurtovirus*, *Eragrovirus*, and *Turncurtovirus*. *Arch Virol.*159 (8): 2193–2203.
- Victoria, JG., Kapoor, A., Li, L., Blinkova, O., Slikas, B., Wang, C., Naeem, A., Zaidi, S., and Delwart, E. 2009. Metagenomic analysis of viruses in stool samples from children with acute flaccid paralysis. *J. Virol.*83 : 4642–4651.
- Vu, TV., Choudhury, NR., and Mukherjee, SK. 2013. Transgenic tomato plants expressing artificial microRNAs for silencing the pre-coat and coat proteins of a *Begomovirus*, *Tomato leaf curl New Delhi virus*, show tolerance to infection. *Virus Res.* 172: 35–45.
- Wang, F., Liu, J., Dong, Y., Chen, P., Zhu, X., Liu, Y., and Ma, J. 2018. Insect-proof netting technique: Effective control of *Bemisia tabaci* and *Tomato chlorosis virus* (ToCV) in protected cultivations in China. *Chilean JAR* 78 (1) : 48-58.



- Waras, B. 2017. Analisis karakteristik kualitas buah stroberi (*Fragaria* sp.) segar berdasarkan rekayasa lingkungan pertumbuhan. *Skripsi*. Fakultas Teknologi Pertanian, Universitas Gadjah Mada.
- Wartig, L., Kheyr-Pour, A., Noris, E., De Kouchkovsky, F., Jouanneau, F., Gronenborn, B., and Jupin, I. 1997. Genetic analysis of the monopartite tomato yellow leaf curl geminivirus : Roles of V1, V2, and C2 ORFs in viral pathogenesis. *Virology* 228 : 132 - 140.
- Wilisiani, F., Somowiyarjo, S., dan Hartono, S. 2014. Identifikasi molekuler virus penyebab penyakit daun keriting isolat Bantul pada melon. *Jurnal Perlindungan Tanaman Indonesia*, 18 (1): 47–54
- Wyant, PS., Strohmeier, S., Schafer, B., Krenz, B., Assuncao, IP., Lima, GS., and Jeske, H. 2012. Circular DNA genomics (circomics) exemplified for geminiviruses in bean crops and weeds of northeastern Brazil. *Virology* 427 (2): 151–157.
- Wyatt, SD., and Brown, JK. 1996. Detection of subgroup III geminivirus isolates in leaf extracts by degenerate primers and polymerase chain reaction. *Phytopathology* 86: 1288–1293.
- Zhang, T., Bretbart, M., Lee, WH., Run, J-Q., Wei, CL., Soh, SWL., Hibberd, ML., Liu, ET., Rohwer, F., and Ruan, Y. 2006. RNA viral community in human feces: prevalence of plant pathogenic viruses. *PLoS Biol.* 4(e3) : 1–8.