



DAFTAR PUSTAKA

- Accotto, G.P., Navas-Castillo, J., Noris, E., Moriones, E., & Louro, D. 2000. Typing of *Tomato yellow leaf curl viruses* in Europe. Eur. J. Plant Pathol. 106: 179-186.
- Aidawati, N. 2000. Penularan virus kerupuk tembakau dengan *Bemesia tabaci* Gennadius (Hemiptera: Aleyrodidae). Tesis. Institut Pertanian Bogor. Bogor.
- Aidawati, N. 2006. Keaneharagaman Begomovirus pada tomat dan serangga vektornya, *Bemesia tabaci* Gennadius (Hemiptera: Aleyrodidae), serta pengujian ketahanan genotipe tomat terhadap strain Begomovirus. Disertasi. Institut Pertanian Bogor. Bogor.
- Aidawati, N., Hidayat, S.H., Suseno, R., Hidayat, P., & Sujiprihati, S. 2005. Identifikasi Geminivirus yang menginfeksi tomat berdasarkan pada teknik Polymerase Chain Reaction-Restriction Fragment Length Polymorphism. J. Mikrobiol. Indon. 10: 29-32.
- Al-ani, R.A., Adhab, M.A., Hamad, S.A.H., & Diwan, S.N.H. 2011. *Tomato yellow leaf curl virus* (TYLCV), identification, virus vector relationship, strains characterization and a suggestion for its control with plant extracts in Iraq. African Journal of Agricultural Research. 6 (22): 5149-5155.
- Ariyanti, N.A. 2011. Mekanisme infeksi virus kuning cabai (*Pepper yellow leaf curl virus*) dan pengaruhnya terhadap proses fisiologi tanaman cabai. Seminar Nasional VIII Pendidikan Biologi. 467-471.
- Astuti, S.T. 2010. Karakterisasi virus penyebab penyakit kuning pada tanaman kacang panjang. Skripsi. Universitas Gadjah Mada. Yogyakata.
- Auliya, A., Damanhuri, & Kuswanto. 2014. Keragaman genetik dan pendugaan jumlah gen ketahanan kacang panjang (*Vigna sinensis* L.) terhadap penyakit kuning. Jurnal Produksi Tanaman. 2 (7): 560-565.
- Balaji, V., Vanitharani, R., Karthikeyan, A.S., Anbalagan, S., & Veluthambi, K. 2004. Infectivity analysis of two variable DNA B components of *Mungbean Yellow Mosaic Virus-Vigna* in *Vigna mungo* and *Vigna radiata*. Journal of Biosciences. 29 (3): 297-308.
- Bisaro, D.M. 2006. Silencing suppression by Geminivirus proteins. Virology. 344 (1): 158-168.
- Bosco, D., Mason, G., & Accotto, G.P. 2004. TYLCSV DNA, but not infectivity, can be transovarially inherited by the progeny of the whitefly vector *Bemesia tabaci* (Gennadius). Virology. 323 (2): 276-83.
- Burban, C., Fishpool, L.D.C., Fauquet, C., Fargette, D., & Thouvenel, J.C. 1992. Host associated biotypes within West African populations of the whitefly *Bemesia tabaci* (Genn.) (Homoptera: Aleyrodidae). J. Appl. Entomol. 113: 416-423.



Byrne, N.D. & St Bellows, N. 1991. Whitefly biology. Annu. Rev. Entomol. 36: 431-57.

Cahyono. 2003. Teknik budidaya dan analisis usaha tani cabai rawit. Kanisius. Yogyakarta.

Cahyono, B. 2008. Tomat, usaha tani dan penanganan pascapanen. Kanisius. Yogyakarta. 127p.

Chang H.H., Ku, H.M., Tsai, W.S., Chien, R.C., & Jan, F.J. 2010. Identification and characterization of a mechanical transmissible Begomovirus causing leaf curl on oriental melon. Eur J Plant Pathol. 127: 219-228.

Colvin, J., Omongo, C.A., Maruthi, M.N., Otim-Nape, G.W., & Thresh, J.M. 2004. Dual Begomovirus infections and high *Bemisia tabaci* populations: two factors driving the spread of a cassava mosaic disease pandemic. Plant Pathology. 53 (5): 577-84.

Curnutt, L.B., Simmons, A.M., & Abd-Rabou, S. 2014. Climate change and *Bemisia tabaci* (Hemiptera: Aleyrodidae): Impacts of temperature and carbon dioxide on life history. Annals of the Entomological Society of America. 107 (5): 933-943.

Czosnek, H., & Ghanim, M. 2012. Back to basics: are Begomoviruses whitefly pathogens?. Journal of Integrative Agriculture. 11 (2): 225-234.

Czosnek, H., Ghanim, M., & Ghanim, M. 2002. The circulative pathway of Begomoviruses in the whitefly vector *Bemisia tabaci* insights from studies with Tomato yellow leaf curl virus. Ann. Appl. Biol 140: 215-31.

Dalimartha, S. 2000. Atlas tumbuhan obat Indonesia. Puspa Swara. Jakarta.

Damayanti, T. A., Alabi, O.J., Rayapati, A.N., & Rauf, A. 2009. Severe outbreak of a yellow mosaic disease on the yardlong bean in Bogor, West Java. Hayati Journal of Biosciences. 16 (2): 78-82.

Direktorat Jenderal Hortikultura. 2015. Statistik produksi hortikultura tahun 2014. Direktorat Jenderal Hortikultura Kementerian Pertanian. Jakarta. 285 p.

Fachruddin, L. 2000. Budidaya kacang-kacangan. Kanisius. Yogyakarta. 145 p.

Fauquet, C.M., & Stanley, J. 2005. Revising the way we conceive and name viruses below the species level: a review of Geminivirus taxonomy calls for new standardized isolate descriptors. Archives of Virology. 150 (10): 2151-79.

Fauquet, C.M., Briddon, R.W., Brown, J.K., Moriones, E., Stanley, J., Zerbini, M., & Zhou, X. 2008. Geminivirus strains demarcation and nomenclature. Arch Virol. 153: 783-821.

Febria, D. 2015. Karakterisasi virus penyebab penyakit tanaman cabai (*Capsicum* sp.) pada tiga kondisi geografis. Tesis. Bioteknologi Universita Gadjah Mada.

Fernandes, Fernanda R., Cruz, A.R., Faria, J.C., Zerbini, F.M., & Aragão F.J.L. 2009. Three distinct Begomoviruses associated with soybean in Central Brazil.



Archives of Virology 154 (9): 1567-1570.

Firmanto, B. 2011. Sukses bertanam terung secara organik. Angkasa. Bandung.

Gafni, Y. & Epel, B.L. 2002. The role of host and viral proteins in intra- and inter-cellular tracking of Geminiviruses. Physiological and Molecular Plant Pathology. 60: 231-241..

Gazala, I.F.S., Sahoo, R.N., Rakesh, P., Mandal, B., Gupta, V.K., Singh, R., & Sinha, P. 2013. Spectral reflectance pattern in soybean for assessing yellow mosaic disease. Indian J. Virol. 24 (2): 242-249.

Ghanim, M. 2014. A review of the mechanisms and components that determine the transmission efficiency of *Tomato yellow leaf curl virus* (Geminiviridae; Begomovirus) by its whitefly vector. (Abstrak). Virus Research. 186: 47-54.

Ghanim, M., & Czosnek, H. 2000. *Tomato yellow leaf curl Geminivirus* (TYLCV-Is) is transmitted among whiteflies (*Bemisia tabaci*) in a sex-related manner. Journal of Virology. 74 (10): 4738-45.

Ghanim, M., Morin, S., & Czosnek, H. 2001. Rate of *Tomato yellow leaf curl virus* translocation in the circulative transmission pathway of its vector, the whitefly *Bemisia tabaci*. Phytopathology. 91 (2): 188-96.

Gilbertson, R.L., Hidayat, S.H., & Martinez, R.T. 1991. Differentiation of bean-infecting Geminiviruses by nucleic acid hybridization probe and aspects of Bean golden mosaic in Brazil. Plant Dis. 75: 336-342.

Gottlieb, Y., Zchori-Fein, E., Mozes-Daube, N., Kotsedalov, S., Skaljac, M., Brumin, M., Sobol, I., Czosnek, H., Vavre, F., Fleury, F., & Ghanim, M. 2010. The transmission efficiency of *Tomato yellow leaf curl virus* by the whitefly *Bemisia tabaci* is correlated with the presence of a specific symbiotic bacterium species. Journal of Virology. 84 (18): 9310-17.

Hallan, V. 1998. Genome organization of a Geminivirus causing leaf curl in tomato (*Lycopersicon esculentum*). Lucknow, India: University of Lucknow, Ph.D thesis.

Harpenas, A. & Dermawan, R. 2010. Budidaya cabai unggul. Penerbit Swadaya. Jakarta.

Harrison, 1985. Advance in Geminivirus research. Annual Review of Phytopathol. 23: 55-58.

Hartono, S. 2008. Identifikasi molekuler begomovirus penyebab penyakit keriting kuning pada tanaman tomat di Jawa Tengah. Jurnal Akta Agrosia. 11 (1): 69-74.

Haryanto, E., Suhartini, T., & Rahayu, E. 2003. Budidaya kacang panjang. Penebar Swadaya. Jakarta. 69 p.

Hema, M., Sreenivasulu, P., Patil, B.L., Kumar, P.L., & Rendy, D.V.R. 2014. Tropical food legume: virus diseases of economic importance and their control. Advance



in Virus Research. 90: 431-505.

Hidayat, S.H., Rusli, E.S., & Aidawati, N. 1999. Penggunaan primer universal dalam polymerase chain reaction untuk mendeteksi virus gemini pada cabe. Prosiding Kongres Nasional XI dan Seminar Ilmiah PFI. Purwokerto. 16-18 September 1999. 355-359.

Hidayat, S.H., Chatchawankpanich, O., Rusli, E., & Aidawati, N. 2006. Begomovirus associated with *Pepper yellow leaf curl* disease in West Java, Indonesia. Journal Indon. Microbiol. 11 (2): 87-89.

Hill, J.E., Strandberg, J.O., Hiebert, E., & Lazarowitz, S.G. 1998. Asymmetric infectivity of pseudorecombinants of *Cabbage leaf curl virus* and *Squash leaf curl virus*: implications for bipartite Geminivirus evolution and movement. Virology. 250: 283-292.

Hong, Y.G., Robinson, D.J., & Harrison, B.D. 1993. Nucleotide sequence evidence for the occurrence of three distinct whitefly-transmitted Geminiviruses in cassava. Journal of General Virology. 74: 2437-2443.

Hunter, W.B., Hiebert, E., Webb, S.E., Tsai, J.H., & Polston, J.E. 1998. Location of Geminiviruses in the whitefly *Bemisia tabaci* (Homoptera: Aleyrodidae). Plant Disease. 82: 1147-1151.

Hwang, D.J., Turner, N.E., & Wilson, T.M.A. 1998. Chaperone protein GrpE and the GroEL/GroES complex promote the correct folding of *Tobacco mosaic virus* coat protein for ribonucleocapsid assembly in vivo. Arch Virol. 143: 2203-2214.

Ilyas, Muhammad, Qazi, J., Mansoor, S., & Briddon, R.W. 2010. Genetic diversity and phylogeography of Begomoviruses infecting legumes in Pakistan. Journal of General Virology. 91 (8): 2091-2101.

Irfan. 1992. Bertanam Kacang Sayur. Penebar Swadaya. Jakarta. 18 p.

Jones, D.R. 2003. Plant viruses transmitted by whiteflies. European Journal of Plant Pathology. 109: 195-219.

Kenyon, L., Tsai, W.S., Shih, S.L., & Lee, L.M. 2014. Emergence and diversity of Begomoviruses infecting Solanaceous crops in East and Southeast Asia. Virus Res. 186: 104-113.

Khan, M.S., Tiwari, A.K., Raj, S.K., Srivastava, A., Ji, S.H., & Chun, S.C. 2014. Molecular epidemiology of Begomoviruses occurring on some vegetables, grain legume and weed species in the Terai belt of north India. Journal of Plant Diseases and Protection. 121 (2): 53-57.

Kusumaningrum, F. 2009. Seleksi Begomovirus isolat lemah pada tanaman cabai dan tomat. Tesis. Universitas Gadjah Mada.

Malathi, K., Higaki, K., Tinkelenberg, A.H., Balderes, D.A., Almanzar-Paramio, D., Wilcox, J.L., Erdeniz, N., Redican, F., Padamsee, M., Liu, Y., Khan, S., Alcantara, F., Carstea, E.D., Morris, J.A., & Sturley, S.L. 2004. Mutagenesis of the putative sterol-sensing domain of yeast Niemann Pick C-related protein



reveals a primordial role in subcellular sphingolipid distribution. *Journal of Cell Biology*. 164 (4): 547-56.

Malik, P. S., Kumar, V., Bagewadi, B., & Mukherjee, S.K. 2005. Interaction between coat protein and replication initiation protein of *Mungbean Yellow Mosaic India Virus* might lead to control of viral DNA replication. *Virology*. 337: 273-283.

Melinda, Damayanti, T.A., & Hidayat, S.H. 2015. Identifikasi molekuler *Bean Common Mosaic Virus* yang berasosiasi dengan penyakit mosaik kuning kacang panjang. *J. HPT Tropika*. 15 (2): 132-140.

Mishira, M., Sachan, M., Akram, M., & Naimuddin. 2010. Detection of *Mungbean yellow mosaic India virus* in Kharif pulses and some weeds. *Trends in Bioscience*. 3 (2): 117-119.

Mizutani, T., Daryono, B.S., Ikegami, M., & Natsuaki, K.T. 2011. First report of *Tomato leaf curl New Delhi virus* infecting cucumber in Central Java, Indonesia. (*Abstrak*). *Journal Plant Dis.* 95 (11): 1485.

Morissan, M.A. 2012. Metode peneltian survey. Kencana. Jakarta. 423 p.

Mudmainah, S. & Purwanto. 2010. Deteksi Begomovirus pada tanaman cabai merah dengan I-Elisa test dan teknik PCR. *Agrosains* 12 (2): 44-49.

Obaiah, S., Reddy, B.B.V., Reddy, E.N.P., & Prasad, S.Y. 2014. Molecular detection of yellow mosaic virus infecting blackgram (*Vigna mungo* (L.) Hepper) in Andhra Pradesh. *International Journal of Plant, Animal and Environmental Sciences*. 4 (1): 16-18.

Padidam, R., Beachy, R.N., & Fauquet, C.M. 1995. *Tomato leaf curl Geminivirus* from India has a bipartite genome and coat protein is not essential for infectivity. *Journal of General Virology*. 76: 25-35.

Phabiola, T.A., Suastika, G., Nurulita, S., Nyana, I.D.N., Temaja, I.G.R.M., & Sudana, M. 2016. *Mungbean Yellow Mosaic India* and *Bean Common Mosaic viruses* induced severe epidemic of yellowing and mosaic vein banding diseases, respectively, on yardlong bean in Bali, Indonesia. *Journal of Biology, Agriculture and Healthcare*. 6 (4): 72-85.

Plant Health Australia & Nursery and Garden Industry Australia. 2010. Threat specific contingency plan: whitefly transmitted viruses (internet). *Industry Biosecurity Plan for The Nursery & Garden Industry*. <http://www.planthealthaustralia.com.au/>. (September 2016).

Pitojo, S. 2004. Benih buncis. Kanisius. Yogyakarta. 97 p.

Pratap, D., Ashwin R.K., & Sunil K.M. 2011. Molecular characterization and infectivity of a *Tomato leaf curl New Delhi virus* variant associated with newly emerging yellow mosaic disease of eggplant in India. *Virology Journal*. 8: 305.

Pudashini, B.J., Shahid, M.S., & Natsuaki, K.T. 2013. First report of *Bean common mosaic necrosis virus* (BCMNV) infecting sweet bean in Nepal. (*Abstract*). *Plant Diseases*. 97 (2): 290



Purwoko, R.R. 2016. Keragaman begomovirus yang berasosiasi dengan *Bemesia tabaci* (Gennadus) (Hemiptera: Aleyrodidae) di Jawa. Tesis. Universitas Gadjah Mada.

Rahardjo, H.M. 2006. Tanaman berkhasiat antioksidan. Penebar Swadaya. Jakarta. 12 p.

Rentería-Canett, I., Xoconostle-Cázares, B., Ruiz-Medrano, R., & Rivera-Bustamante, R.F. 2011. Geminivirus mixed infection on pepper plants: synergistic interaction between PHYVV and PepGMV. Virology Journal. 8 (1): 104.

Robert, I.M., Robinson, D.J., & Harrison, B.D. 1984. Serological relationship and genome homologies among Geminiviruses. Journal Gen Virol. 65: 1723-1730.

Rojas M.R., Gilbertson, R.L., Russeli, D.R., & Maxwell, D.P. 1993. Use of degenerate primers in the polymerase chain reaction to detect whitefly-transmitted Geminiviruses. Plant Disease. 77: 340-347.

Rukmana, R. 1994. Bertanam terung. Kansius. Yogyakarta. 56 p.

Rusli E.S., Hidayat, S.H., Suseno, R., & Tjahjono, B. 1999. Virus gemini pada cabai: variasi gejala dan studi cara penularan. Buletin Hama dan Penyakit Tumbuhan. 11 (1): 26-31.

Sakata, J.J., Shibuya, Y., Sharma, P., & Ikegami, M. 2008. Strains of a new bipartite Begomovirus, *Pepper yellow leaf curl Indonesia Virus*, in leaf-curl-diseased tomato and yellow-vein-diseased ageratum in Indonesia. Archives of Virology. 153 (12): 2307-13.

Sanderfoot, A.A., Ingham, D.J., & Lazarowitz, S.C. 1996. A Viral movement protein as a nuclear shuttle: the Geminivirus BR1 movement protein contains domains essential for Interaction with BL1 and nuclear localization. Plant Physiol 110: 23-33.

Santoso, T.J. 2008. Identifikasi Begomovirus Indonesia pada tomat dan analisis diversitas genetik gen av1 serta pemanfaatannya untuk pengembangan tanaman tahan virus. Disertasi. Sekolah Pascasarjana Institut Pertanian Bogor.

Santoso, T.J. 2013. Aplikasi teknik molekuler untuk analisis genetik *Tomato leaf curl virus*. J. Litbang Pert. 32 (4): 141-149.

Santoso, T.J., Hidayat, S.H., Duriat, A.S., Herman, M., & Sudarsono. 2008. Identity and sequence diversity of Begomovirus associated with yellow leaf curl disease of tomato in Indonesia. Microbiology. 2 (1): 1-7.

Santoso, T.J., Hidayat, S.H., & Herman, M. 2013. Aplikasi teknik Polymerase Chain Reaction (PCR) menggunakan primer degenerate dan spesifik Gen AV1 untuk mendeteksi Begomovirus pada tomat (*Lycopersicon esculentum* Mill). J. Hort. Indonesia. 4 (3):140-149.

Saputra, I.G.P.E. 2015. Deteksi *Mungbean yellow mosaic virus* (MYMV) pada



tanaman kacang panjang (*Vigna sinensis* L.) dan gulma menggunakan metode *Polymerase Chain Reaction* (PCR). Skripsi. Fakultas Pertanian Universitas Udayana.

Septariani, D.N., Hidayat, S.H., & Nurhayati, E. 2014. Identifikasi penyebab penyakit daun keriting kuning pada tanaman mentimun. *J. HPT Tropika*. 14 (1): 80-86.

Septiani, D.N. 2014. Karakterisasi Begomovirus penyebab penyakit daun keriting pada mentimun (*Cucumis sativus* L.). Tesis. Institut Pertanian Bogor. Bogor.

Setiadi. 2006. Cabai rawit jenis dan budaya. Penebar Swadaya. Jakarta.

Shahid, M.S., Ikegami, M., & Natsuaki, K.T. 2012. First report of *Mungbean yellow mosaic India virus* on lima bean affected by yellow mosaic disease in Nepal. *Australasian Plant Dis. Notes*. 7: 85-89.

Sharma, P., Gaur, R.K., & Ikegami, M. 2011. Subcellular localization of V2 protein of *Tomato leaf curl Java Virus* by using green fluorescent protein and yeast hybrid system. *Protoplasma*. 248 (2): 281-88.

Soetasad, A. 2000. Budidaya terung lokal dan terung jepang. Penebar Swadaya. Jakarta.

Su, Q., Xie, W., Wang, S., Wu, Q., Liu, B., Fang, Y., Xu, B., & Zhang, Y. 2014. The endosymbiont *Hamiltonella* increases the growth rate of its host *Bemisia tabaci* during periods of nutritional stress. *PLoS One*. 9 (2): 1-6.

Sudiono, S. 2001. Deteksi dan identifikasi virus gemini pada tanaman tomat. Tesis. Institut Pertanian Bogor. Bogor.

Sudiono, S., Hidayat, S.H., Suseno, R., & 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.

Sulandari, S. 2004. Karakterisasi biologi, serologi dan analisis sidik jari DNA virus penyebab penyakit daun keriting kuning cabai. *Desertasi*. Institut Pertanian Bogor. Bogor.

Sulandari, S., Suseno, R., Hidayat, S.H., Harjosudarmo, J., & Sastromarsono, S. 2001. Deteksi virus gemini pada cabai di Daerah Istimewa Yogjakarta. Prosiding Kongres Nasional XVI dan Seminar Ilmiah PFI. Bogor 22-24 Agustus 2001. 2000-2002.

Sulandari S., Suseno, R., Hidayat, S.H., Harjosudarmo, J., & Sosromarsono, S. 2006. Deteksi dan kajian inang virus penyebab penyakit daun keriting kuning cabai. *Hayati*. 13 (1): 1-6.

Sulandari, S., Hidayat, S.H., Suseno R., Harjosudarmo, J., & Sosromarsono, S. 2007. Inoculation of *Pepper yellow leaf curl virus* on various plants and detection of the virus in its insect vector *Bemisia tabaci* Genn. (Hemiptera: Aleyrodidae). Proceedings of The Third Asia Conference on Plant Pathology, Yogyakarta, Indonesia 20-24 August 2007. 140-143.



Sunarjono, H. 2013. Bertanam 36 jenis sayur. Penebar Swadaya. Jakarta.

Tang, Y.F., He, Z.F., Du, Z.G., & Lu, L.H. 2014. First report of *Tomato yellow leaf curl Kanchanaburi* virus infecting eggplant in Laos. The American Phytopathological Society Journals. 98 (3): 428.

Trisno, J., S.H. Hidayat, T. Habazar, I. Manti, & Jamsari. 2009. Detection and sequence diversity of Begomovirus associated with yellow leaf curl disease of pepper (*Capsicum annuum*) in West Sumatra, Indonesia. Microbiology 3 (2): 56-61.

Trisusilowati EB., Suseno, R., Sosromarsono, S., Barizi, Soedarmadi, & Nur, M.A. 1990. Transmission, serological aspects, and morphology of the tobacco krupuk virus. Indonesian Journal of Tropical agriculture. 2 (1): 75-79.

Tsai, W.S., Shih, S.L., Kenyon, L., Green, S.K., & Jan, F.J. 2011. Temporal distribution and pathogenicity of the predominant tomato-infecting begomoviruses in Taiwan. Plant Pathology. 60: 787-799.

Tsai, W.S., Shih, S.L., Rauf, A., Safitri, R., Hidayati, N., & Kenyon, L. 2011. Occurrence and genetic characterization of legume-infecting begomoviruses in Java, Indonesia. [https://www.ncbi.nlm.nih.gov/nucleotide/371485386?report=genbank&log\\$=nucltop&blast_rank=1&RID=Y1K6F5KT01R](https://www.ncbi.nlm.nih.gov/nucleotide/371485386?report=genbank&log$=nucltop&blast_rank=1&RID=Y1K6F5KT01R). (September 2016).

Tugiyono. 2005. Tanaman tomat. Agromedia Pustaka. Jakarta. 250 p.

Usharani, K.S., Surendranath, B., Paul-Khurana, S.M., Garg, I.D., & Malathi, V.G. 2003. Potato leaf curl - a new disease of potato in northern India caused by a strain of *Tomato leaf curl New Delhi virus*. New Disease Reports. 8: 2.

van Brunschot, S.L., Bergervoet, J.H.W., Pagendam, D.E., de Weerdt, M., Geering, A.D.W., Drenth, A., & van der Vlugt, R.A.A. 2014. A Bead-Based suspension array for the multiplexed detection of Begomoviruses and their whitefly vectors. Journal of Virological Methods. 198: 86-94.

Varma, A., & Malathi, V.G. 2003. Emerging Geminivirus problems: a serious threat to crop production. (Abstrak). Ann. Appl. Biol. 142 (2): 145-164.

Wartig, L., Kheyr-Pour, A., Noris, E., De Kouchkovsky, F.O., Jouanneau, O., Gronenborn, B., & 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: 132-40.

Windarningsih, M. 2015. Karakterisasi molekuler begomovirus penyebab penyakit daun keriting kuning pada cabai rawit (*Capsicum frutescens*) di Pulau Lombok. Disertasi. Universitas Gadjah Mada. Yogyakarta.

Worrall, E.A., Wamonje, F.O., Mukeshimana, G., Harvey, J.J., Carr, J.P., & Mitter, N. 2015. Chapter One-*Bean Common Mosaic Virus and Bean Common Mosaic Necrosis Virus: Relationships, Biology, and Prospects for Control*. (Abstract). Advances in Virus Research. 93: 1-46



Ye, J., Coulouris, G., Zaretskaya, I., Cutcutache, I., Rozen, S., & Madden, T.L. 2012. Primer-BLAST: A tool to design target-specific primers for polymerase chain reaction. *BMC Bioinformatics*. 13 (1):134.

Yuwono, T. 2006. Teori dan aplikasi *Polymerase Chain Reaction*. Andi. Yogyakarta. 239 p.

Zaevie B., Napitupulu, M., & Astuti, P. 2014. Respon tanaman kacang panjang (*Vigna sinensis* L.) terhadap pemberian pupuk NPK Pelangi dan pupuk organik cair NASA. *Jurnal Agrifor*. 13 (1): 1-14.