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DAFTAR PUSTAKA

Ahuja, U., S.C. Ahuja, R. Thakrar, and R.K. Singh. 2008. Rice a nutraceutical. Asian Agriculture History, 12:93-108.

Ali, M.P., D. Huang, G. Nachman, N. Ahmed, M.A. Begum, and M.F. Rabbi. 2014. Will climate change affect outbreak patterns of planthoppers in Bangladesh. Plos One, 9:916-978.

Baehaki, S.E. 2010. http://pangan.litbang.deptan.go.id/berita/ledakan-werengcokelatdan virus-kerdil-mengancam-peningkatan-produksi-padi-nasional. Diakses pada 5 Juni 2019.

Baehaki, S.E. 2011. Strategi fundamental pengendalian hama wereng batang cokelat dalam pengamananproduksi padi nasional. Pengembangan Inovasi Pertanian, 4:63-75.

Baehaki, S.E., dan M.J. Mejaya. 2014. Wereng cokelat sebagai hama global bernilai ekonomi tinggi dan strategi pengendaliannya. Iptek Tanaman Pangan, 9:1-12.

Bahagiawati, A.H. 2012. Kontribusi teknologi marka molekuler dalam pengendalian wereng cokelat. Jurnal Pengembangan Inovasi Pertanian, 5:1-18.

Badan Litbang Pertanian. 2010. Mewaspadai Wereng Batang Cokelat, Penyakit Kerdil Hampa dan Kerdil Rumput. Kementerian Pertanian, Jakarta.

Balai Pengkajian dan Pengembangan Teknologi Pertanian. 2010. Hama Wereng Batang Cokelat *(Nilaparvata lugens* (Stal.)) dan Pengendaliannya. Balai Pengkajian dan Pengembangan Teknologi Pertanian, Jawa Barat.

Bottreall, D.G. and K.G. Schoenly. 2012. Resurrecting the ghost of green revolution past:The brown planthopper as a recurring threat to high-yielding rice production in tropical Asia. Journal of Asia-Pasific Entomology, 15:122-140.

BBPADI. 2017. http://bbpadi.litbang.pertanian.go.id/index.php/info-berita/info teknologi/ciri-penyakit-kerdil-hampa-dan-kerdil-rumput. Diakses pada 8 Mei 2019.

BPS. 2019. https://jateng.bps.go.id/dynamictable/2016/12/19/44/luas-panen-produksi dan-produktivitas-padi-sawah-dan-padi-ladang-jawa-tengah-menurut kabupaten kota-2013-2015.html. Diakses pada 20 Maret 2019.

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Cabauatan, P.Q., R.C. Cabunagan, and I.R. Choi. 2009. Rice viruses transmitted by the brown planthopper *Nilaparvata lugens* Stal. In Heong, K.L., and B. Hardy, Planthoppers: New Threats to the Sustainability of Intensive Rice Production Systems in Asia. International Rice Research Institute, Los Banos.

Cabunagan, R.C., I.R. Choi, and M. Muhsin. 2010. Trip Report: Survey for rice virus diseases in Western and Central Java, Indonesia July 19 to 23, 2010. IRRI. Los Banos, Philippines.

Chen, C.C., M.J. Chen, R.J. Chiu, and H.T. Hsu. 1997. *Rice ragged stunt virus (Oryzavirus)* possesses an outer shell and a-spikes. Plant Protection Bulletin, 39:383-388.

Daradjat, Aan, Andang, S. Silitonga, dan Nafisah. 2008. Ketersediaan plasma nutfah untuk perbaikan varietas padi. Inovasi Teknologi Padi.

Du, P.V., R.C. Cabunagan, P.Q. Cabauatan, H.S. Choi, I.R. Choi, H.V. Chien, and N.H. Huan. 2007. Yellowing syndrome of rice: etiology, current status, and future challenges. Omonrice, 15:94-101.

Fitri, H. 2009. Uji Adaptasi Beberapa Padi Ladang (*Oryza sativa* L.). USU Press, Medan.

Gray, S.M., and N. Banerjee. 1999. Mechanisms of Arthropod transmission of plant and animal viruses. Microbiology Moleculer, 63(1):128-148.

Hibino, H., M. Roechan, S. Sudarisman, and D.H. Tantera. 1977. A virus disease of rice (kerdil hampa) transmitted by brown planthopper *Nilaparvata lugens* Stal. In Indonesia, In: Liu Huan, Song X., N. Yue-un, L. Li-na, Z. Xue-ping and U. Jian-Xiang. 2014. Highly sensitive and specific monoclonal antybody-based serological methods for *Rice ragged stunt virus* detection in rice plants and rice brown planthopper vectors. Journal of Interative Agriculture, 13:1943-1951.

Hibino, H., M. Roechan, and S. Sudarisman. 1978. Association of two types of virus particle with penyakit habang (tungro disease) of rice in Indonesia. Phytopathology, 68:1412-1416.

Hibino, H., P.Q. Cabauatan, T. Omura, and T. Tsuchizaki. 1985. *Rice grassy stunt virus* strain causing tungrolike symptoms in the Philippines. Journal of Plant Disease, 69:538-541.

Hibino, H., and P.Q. Cabauatan. 1987. Infectivity neutralization of rice tungro associated viruses acquired by vector *leafhopper*. Phytopathology, 77:473–476.

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Hibino, H. 1996. Biology and epidemiology of rice viruses. Annual Review of Phytopathology, 34:249-274.

Hull, R. 2002. Plant Virology : *4th edition*. Academic Press, California.

IRRI. 2002. Standart Evaluation System of Rice (SES). INGER Genetic Resources Center, Manila.

Indrasari, S.D. 2006. Kandungan besi varietas padi. Warta Penelitian dan Pengembangan Pertanian, 28:13-14.

Kalshoven, L.G.E. 1981. The Pests of Crops in Indonesia. Ichtiar Baru, Jakarta.

Khush, G.S. and P. Virk. 2002. Rice Improvement: Past, Present and Future. In Kang, M.S., Crop Improvement: Challenges in the Twenty-First Century. Food Product Press, New York.

Kusuma, A.F. 2016. Karakterisasi Virus Penyebab Penyakit Kerdil Hampa pada Tanaman Padi (*Oryza sativa* L.) di Daerah Endemik Serangan Wereng Batang Cokelat. Tesis, Universitas Gadjah Mada.

Lai, D., Y. Zhang, Q. Huang, G. Yin, K.K. Pennerman, Z. Liu, and A. Guo. 2018. Reverse transcription loop-mediated isothermal amplification to rapidly detect *Rice ragged stunt virus*. Saudi Journal of Biological Sciences, 25:1577-1584.

Le, D.T., N. Osamu, U.I. Tamaki, S. Takumi, C. Il-Ryong, O. Toshihiro, and S. Takahide. 2010. Molecular detection of nine rice viruses by a reverse transcription loop-mediated isothermal amplification assay. Journal of Virological Methods, 170:90-93.

Lilies, C. 1992. Kunci Determinasi Serangga. Penerbit Kanisius, Jakarta.

Ling, K.C. 1972.Rice Virus Disease. IRRI. Los Banos, Philipines.

Ling, K.C. 1977. Transmission of Rice Grassy Stunt by the Planthopper. In: The Rice Brown Planthopper. Food and Fertilizer Technology Center for Asian and Pacific Region, Taiwan.

Ling, K.C., C.R. Tionglo, V.M. Aguiero, and P.Q. Cabauatan. 1978. Rice Ragged Stunt Disease in the Philippine. IRRI Research Paper Series No.16 March 1978.

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Liu H., S. Xi-Jiao, N. Yue-un, L. Li-na, Z. Xue-ping, and U. Jian-Xiang. 2014. Highly sensitive and specific monoclonal antybody-based serological methods for *Rice ragged stunt virus* detection in rice plants and rice brown planthopper vectors. Journal of Interative Agriculture, 13:1943-1951.

Makarim, A.K., dan E. Suhartatik. 2009. Morfologi dan fisiologi tanaman padi. Balai Besar Penelitian Tanaman Padi.

Milne, R.G. and K.C. Ling. 1982. Rice Ragged Stunt Virus. CMI/AAB Descr. Plant Viruses, No. 248.

Miranda, G.J., O. Azzam, and Y. Shirako. 2000. Comparison of nucleotide sequences between Northern and Southern Philippine isolates of *Rice grassy stunt virus* indicates occurrence of natural genetic reassortment. Virology, 266:26-32.

Misaghi, I.J. 2012. Physiology and Biochemistry of Plant-Pathogen Interactions. Plenum Press, New York.

Mochida, O., and T. Okada. 1979. Taxonomy and biology of *Nilaparvata lugens* (Hom., Delphacidae). Brown planthopper Threat to rice Prod. Asia, Vol. 21743.

Mueller, K.E.1974. Field Problem of Tropical Rice. International Rice Research Institute, Los Banos.

Nuruzzaman, M., A.M. Sharoni, K. Satoh, M.R. Karim, J.A. Harikrishna, T. Shimizu, T. Sasaya, T. Omura, M.A. Haque, S.M.Z. Hasan, A. Ahmad, and S. Kikuchi. 2015. NAC transcription factor family genes are differentially expressed in rice during infections with *Rice dwarf virus, Rice black-streaked dwarf virus, Rice grassy stunt virus, Rice ragged stunt virus,* and *Rice transitory yellowing virus*. Frontiers in Plant Science, 676:1-15.

Ou, S.H. 1985. Rice Disease : *2nd edition*. The Cambrian News Ltd., Commonwealth Micological Institute.

Palmer, L.T., V. Soepriaman, and Kardaatmadja. 1978. Rice yield losses due to brown planthopper and *rice grassy stunt* disease in Java and Bali. Plant Disease Report, 63:963-965.

Reissig, W.H., E.A. Heinrichs, J.A. Litsinger, K. Moody, L. Fiedler, T.W. Mew, and A.T. Barnion.1986. Illustrated Guide to Integrated Pest Management in Rice in Tropical Asia.The International Rice Research Institute, Los Banos.

Sugeng. H, 2001. Bercocok Tanam Padi. Aneka Ilmu, Semarang.

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Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

Suprihanto, S. Somowiyarjo, S. Hartono, dan Y.A. Trisyono. 2015. Preferensi wereng batang cokelat terhadap varietas padi dan ketahanan varietas padi terhadap virus kerdil hampa. Jurnal Penelitian Pertanian Tanaman Pangan, 35:1-8.

Suzuki, Y., N. Widiarta, N. Naga, and S. Nasu, 1988. Virulent strain of *rice grassy stunt virus* (RGSV) identified in Indonesia. IRRN, 13:24-25.

Swastika, D.K.S., J. Wargiono, Soejitno, dan A. Hasanudin. 2007. Analisis kebijakan peningkatan produksi padi melalui efisiensi pemanfaatan lahan sawah di Indonesia. Analisis Kebijakan Pertanian, 5:36-52.

Toriyama, S., T. Kimishima, M. Takahashi, T. Shimizu, N. Minaka, and K. Akutsu. 1998. The complete nucleotide sequence of the *rice grassy stunt virus* genome and genomic comparisons with viruses of the genus *Tenuivirus.* Journal of General Virology, 79:2051-2058.

Yusak. 2008. Peningkatan Produksi Pangan Dengan Teknik Penanaman Padi Sistem Strain Biso Tagowo. Institut Pertanian Bogor, Bogor.

Zeigler, R., and A. Barclay. 2008. The relevance of rice. Rice 1:3–10.

Zhou, G.H., J.J. Wen, D.J. Cai, P. Li, D.L. Xu, S.G. Zhang. 2008. Southern rice black streaked dwarf virus: A new proposed *Fijivirus* species in the family Reoviridae. Chinese Science Bulletin, 53:3677-3685.