

## DAFTAR PUSTAKA

- Anonim<sup>1</sup>. 2015. *Rencana Strategis Kementerian Pertanian Tahun 2015-2019*. Jakarta: Kementerian Pertanian.
- Anonim<sup>2</sup>. 1991. *Descriptors for Maize*. International Maize and Wheat Improvement Center, Mexico City/International Board for Plant Genetic Resources, Rome.
- Anonim<sup>3</sup>. 2012. Maize Doctor. <http://maizedoctor.cimmyt.org/index.php> diakses pada 6 Desember 2016.
- Atman. 2015. *Produksi Jagung: Strategi Meningkatkan Produksi Jagung*. Yogyakarta: Plantaxia.
- Aqil, M & Arvan R.Y. 2014. *Deskripsi Varietas Unggul Jagung*. Edisi Keempat. Balai penelitian Tanaman Serealia Badan Penelitian dan Pengembangan Pertanian.
- Bani, P. 2016. Variasi Genetik dan Identifikasi Penanda Molekular terpaut Gen Ketahanan terhadap Penyakit Bulai pada Jagung (*Zea mays* L.). Fakultas Biologi Universitas Gadjah Mada. Naskah tesis. Tidak dipublikasikan.
- Budiman, H. 2015. *Budidaya Jagung Organik*. Yogyakarta: Pustaka Baru Press.
- Burhanuddin. 2011. Identifikasi cendawan penyebab penyakit bulai pada tanaman jagung di Jawa Timur dan Pulau Madura. *Suara Perlindungan Tanaman*. 1: 21-26.
- Burhanuddin. 2013. Sumber Inokulum Penyakit Bulai *Peronosclerospora philippinensis* pada Tanaman Jagung. Makalah disampaikan pada Seminar Nasional Inovasi Teknologi Pertanian.
- Chinchilla, D., Zipfel, C., Robatzek, S., Kemmerling, B., Nürnberger, T., Jones, J.D., Felix, G., & Boller, T. 2007. A flagellin-induced complex of the receptor FLS2 and BAK1 initiates plant defence. *Nature*. 448(7152):497-500.
- Craig, J., Bockholt, A.J., Frederiksen, R.A. & Zuber, M.S. 1977. Reaction of important corn inbred lines to *Sclerospora sorghi*. *Plant Disease Reporter*. 61(7), 563-564.
- De Almeida Rios, S., Paes, M.C.D., Cardoso, W.S., Borém, A. & Teixeira, F.F. 2014. Color of Corn Grains and Carotenoid Profile of Importance for Human Health. *American Journal of Plant Sciences*, 5, 857-862.

- Flor, H.H. 1956. The complementary genetic systems in flax and flax rust. *Adv. Genet* 8: 29–54.
- Granados, G. 1998. Population improvement of maize. Breeding division of CIMMYT. Paper presented in training of specialty maize breeding. El Batan Mexico. CIMMYT.
- Hartatik, S. 2003. Penilaian ketahanan visual genotipe jagung terhadap penyakit bulai (*Downy mildew*). Prosiding Seminar PERIPI, Malang.
- Hartatik, S. 2007. Pewarisan Sifat Ketahanan Tanaman Jagung (*Zea mays* L.) terhadap Penyakit Bulai. *Agroteksos*. 17(2):99-103.
- Hikmahwati, Tutik, K., Melina, & Marcia, B.P. 2011. Karakterisasi Morfologi *Peronosclerospora* spp., Penyebab Penyakit Bulai pada Tanaman Jagung, dari Beberapa Daerah di Indonesia. *J. Fitomedika*. 7(3):159–161.
- Hooda, K.S., Sekher, J.C., Singh, V., Setty, T.A.S., Sharma, S.S., Parnidharan V., Bunker, R.N., & Kaul, J. 2012. Screening of elite maize lines for resistance against downy mildews. *Maize Journal* 1(2): 110 - 112.
- Iriany, R.N., Yasin, H.G., & Andi, T.M. 2016. Asal, Sejarah, Evolusi, dan Taksonomi Tanaman Jagung. *Jagung: Teknik Produksi dan Pengembangan*. Balai Penelitian Tanaman Serealia, Maros.
- Judd WS, Campbell CS, Kellog EA, Stevens PF. 1999. *Plant Systematics—a phylogenetic approach*. Sinauer Associates, Sunderland
- Kaneko, A., & Aday, B.A. 1980. Inheritance of Resistance to Philippine downy mildew of Maize. *Crop Sci*. 20 (5): 590-594.
- Kim, JY., Jun, C.M., Hyo, C.K., Seungho, S., Kitae, S., Kyung, H.K., & Byung, M.L. 2017. Identification of Downy Mildew Resistance Gene Candidates by Positional Cloning in Maize (*Zae mays* subsp. *Mays*; *Poaceae*). *Application in Plant Science* 5(2):132.
- Koswara, J., 1986. *Budidaya Jagung Manis (Zea mays saccharata, Sturt)*. Fakultas Pertanian. IPB. Bogor.
- Lertrat, K. & Taweesak, P. 2007. Breeding for Increased Sweetness in Sweet Corn. *International Journal of Plant Breeding* 1(1): 27-30.
- Liu, Z., Arturo, G., Michael, D.M., Sherry, A.F. 2016. Genetic Analysis of Kernel Traits of Maize –Teosinte Introgression population. *G3: Gene, Genomes, Genetics*. 6: 2523-2530.
- Llorca, C.M., Maren, P., & Ulrike, Z. 2014. bZIPs and WRKYs: two large transcription factor families executing two different functional

strategies. *Frontiers in Plant Science*. 5(169):1-14.

- Lukman, R., Ahmad A., & Thomas, L. 2013. Unraveling the Genetic Diversity of Maize Downy Mildew in Indonesia. *J. Plant Pathol Microb* 4(2): 162
- Matsuoka, Y., Yves, V., Major, M.G., Jesus, S.G., Edward, B., & John, D. 2002 A single domestication for maize shown by multilocus microsatellite genotyping. *Proc. Natl. Acad. Sci.* 99: 6080–6084.
- Mejaya, M.J., Azrai, M., Iriany, R.N. 2016. Pembentukan Varietas Unggul Jagung Bersari Bebas. Balai Penelitian Tanaman Serealia, Maros.
- Milind, P. & Isha, D. 2013. Zea maize: A Modern Craze. *International Research Journal of Pharmacy*. 4 (6).
- Muis, A., Pabendon, M.B., Nonci, N., & Waskito, W.P.S. 2013. Keragaman Genetik *Peronosclerospora maydis* Penyebab Bulai pada Jagung Berdasarkan Analisis Marka SSR. *Penelitian Pertanian Tanaman Pangan*, 32(3): 139-147.
- Mujiati, E. 2008. Pewarisan gen ketahanan terhadap *Cucumber mosaic virus* (CMV) pada persilangan jagung lokal madura (*Zea mays* L. cv guluk guluk) dan jagung srikandi (*Zea mays* L. cv. srikandi kuning-1). Fakultas Biologi Universitas Gadjah Mada. Naskah tesis. Tidak dipublikasikan.
- Muzhingi, T., Tendekayi HG., Andrew HS., Michael AG., Robert MR., & Guangwen T. 2011. Yellow maize with high b-carotene is an effective source of vitamin A in healthy Zimbabwean men<sup>1-4</sup>. *Am J Clin Nutr* 94:510–519.
- Nakashita, H., Michiko, Y., Takako, N., Tadao, A., Shozo, F., Yuko, A., Katsuhiko, S., Suguru, T., Isamu, Y., Shigeo, Y. 2003. Brassinosteroid functions in a broad range of disease resistance in tobacco and rice. *The Plant Journal* 33(5):887-898
- Nam, K.H. & Li, J. 2002. BRI1/BAK1, a receptor kinase pair mediating brassinosteroid signaling. *Cell* 110: 203–212.
- Nair, S.K., Prasanna, B.M., Rathore, R.S., Setty, T.A.S., Kumar, R., & Singh, N.N. 2004. Genetic Analysis of Resistance to Sorghum Downy Mildew and Rajasthan Downy Mildew in Maize (*Zea mays* L.). *Field Crops Research* 89: 379-387
- Olaoye, G., Bello, O.B., Ajani, A.K., & Ademuwagun, T.K. 2009. Breeding for improved organoleptic and nutritionally acceptable green maize varieties by crossing sweet corn (*Zea mays saccharata*): Changes in quantitative and qualitative characteristics in F<sub>1</sub> hybrids and F<sub>2</sub>

- populations. *Journal of Plant Breeding and Crop Science*, 1(9): 298-305.
- Permadi, C., Baihaki A., Murdaningsih, H.K., & Warsa, T. 1991. Penampilan dan pewarisan beberapa sifat kuantitatif pada persilangan resiprokal kacang hijau. *Zuriat* 2(2): 47-52.
- Pierce, B.A. 2012. *Genetics: A Conceptual Approach*. New York: Kate Ahr Parker.
- Piperno, D. R., Anthony, J.R., Irene, H., Jose, I., & Ruth, D. 2009. Starch grain and phytolith evidence for early ninth millennium B.P. maize from the Central Balsas River Valley, Mexico. *Proc. Natl. Acad. Sci.* 106(13): 5019–5024.
- Rustiani, US., Meity, SS., Sri, HH., & Suryo, W. 2015. Echological Characteristic of *Peronosclerospora maydis* in Java, Indonesia. *International Journal of Sciences: Basic and Applied Research (IJSBAR)* 19(1):159-167.
- Rustiani, US., Meity, SS., Sri, HH., & Suryo, W. 2015. Tiga Spesies *Peronosclerospora* Penyebab Penyakit Bulai Jagung di Indonesia. *Berita Biologi*. 14(1):29-37.
- Ruswandi, D., Carpena, A.L., Lantican, R.M., Hautea, D.M., Canama, A.O., & Raymundo, A.D. 2014. Genetic Analysis of Components of Resistance and Quantitative Trait Loci Mapping of Philippine Downy Mildew Resistance Gene in Maize (*Zea mays* L.). *Asian Journal of Agricultural Research* 8 (3): 136-149
- Semangun, H. 2008. *Penyakit-penyakit Tanaman Pangan di Indonesia..* Yogyakarta: Gadjah Mada University Press.
- Semangun, H. 2001. *Ilmu Penyakit Tumbuhan*. Yogyakarta: Gadjah Mada University Press.
- Shepherd, K.W. & Mayo, G.M.E. 1972. Genes Conferring Specific Plant Disease Resistance. *Science* 175(4020): 375-380.
- Shi, H., Shen, Q., Qi, Y., Yan, H., Nie, H., Chen, Y., Zhao, T. 2013. BR-SIGNALING KINASE1 physically associates with FLAGELLIN SENSING2 and regulates plant innate immunity in Arabidopsis. *Plant Cell* 25: 1143–1157.
- Smith, D.R. & Renfro, B.L. 1999. Pg. 26, 28. In: D. G. White (ed.) *Compendium of Corn Diseases*, 3rd ed. APS Press, St. Paul, MN.
- Suarni & Widowati, S. Struktur, Komposisi, dan Nutrisi Jagung. *Jagung: Teknik Produksi dan Pengembangan*. Hlm. 410-426. Balai Penelitian Tanaman Serealia, Maros

- Suarni & Yasin, M. 2011. Jagung sebagai Sumber Pangan Fungsional. *Iptek Tanaman Pangan* 6(1): 41-56.
- Subekti, N.A., Syafruddin, R.E., & Sunarti, S. 2007. *Morfologi Tanaman & Fase Pertumbuhan Jagung dalam Jagung*. Teknik Produksi dan Pengembangan. Maros: Balai Penelitian dan Pengembangan Tanaman Sereal.
- Suprpto & Marzuki, R. 2007. *Bertanam Jagung*. Jakarta: Penebar Swadaya.
- Surtinah, 2008. Menentukan Umur panen yang tepat dengan menguji kadar gula biji jagung manis. *J. Ilmu Pertanian* 4(2): 15- 21.
- Suryo, H. 2007. *Sitogenetika*. Yogyakarta: Gadjah Mada University Press.
- Syukur, M., Sriani, S., & Rahmi, Y. 2015. *Teknik Pemuliaan Tanaman*. Jakarta: Penebar Swadaya.
- Syukur, M. & Rifianto, A. 2013. *Jagung Manis*. Jakarta: Penebar Swadaya
- Talanca, A.H. 2009. Resistensi varietas/galur plasmanutfah jagung terhadap penyakit bulai. Prosiding Seminar Nasional dan Workshop. Inovasi teknologi pertanian yang berkelanjutan mendukung pengembangan agribisnis dan agroindustry di pedesaan. Departemen Pertanian. Badan Penelitian dan Pengembangan Pertanian. Balai Besar Pengkajian dan Pengembangan Teknologi Pertanian. Hlm. 21-26.
- Talanca, A.H. 2013. Status Penyakit Bulai pada Tanaman Jagung dan Pengendaliannya. Prosiding Seminar Nasional dan Workshop. Seminar Nasional Inovasi Teknologi Pertanian. Hlm. 76-87.
- Talanca, A.H & Tenrirawe, A. 2015. Respon Beberapa Varietas terhadap Penyakit Utama Jagung di Kabupaten Kediri Jawa Timur. *Jurnal Agrotan* 1(1): 67-78.
- Wakman, W. S. Asikin, A. Bustan, & M. Thamrin. 2006. Identifikasi Spesies Cendawan Penyebab Penyakit Bulai pada Tanaman Jagung di Kabupaten Tanah Laut Propinsi Kalimantan Selatan. Seminar Mingguan, Balitsereal. Jumat, 30 Juni 2006.
- Widiantini, F., Endah, Y., & Tiara, P. 2015. Morphological Variation of *Peronosclerospora maydis*, the Causal Agent of Maize Downy Mildew from Different Location in Java-Indonesia. *Journal of Agricultural Engineering and Biotechnology*. 3(2): 23-27.
- Wilfinger, W.W. , Mackey, K., & Chomczynski, P. 1997. Effect of pH and Ionic Strength on the Spectrophotometric Assessment of Nucleic Acid Purity. *BioTechniques*, 22(3):474-481.

Wongkaew, A., Chalernpol, P., Julapark, C., Sansern, J., Pichet, G., Taweesak, P., Weerasak, D. 2014. Detection of candidate R genes and single nucleotide polymorphisms for downy mildew resistance in maize inbred lines by association analysis. *Euphytica* 197:109–118.

Yasin, M., Syahrir M., & Faesal. 2012. Pembentukan Varietas Jagung Komposit Kaya Vitamin ‘Provit A1’ dan Provit A2. *Iptek Tanaman Pangan*. 7(1).