

DAFTAR PUSTAKA

- Adie, M.M. & Krisnawati, A. 2007. Peluang peningkatan kualitas biji kedelai. *Prosiding Seminar*. Badan Litbang Pertanian.
- Adie, M.M. & Krisnawati, A. 2017. Identifikasi ketahanan terhadap pecah polong dari beberapa galur harapan kedelai. *Prosiding Seminar Hasil Penelitian Aneka Tanaman Kacang dan Umbi*. Malang.
- Adisarwanto, T. 2009. *Budidaya Kedelai dengan Pemupukan yang Efektif dan Pengoptimalan Peran Bintil Akar*. Penebar Swadaya, Jakarta.
- Adisarwanto, T. 2013. *Kedelai Tropika Produktivitas 3 ton/ha*. Penebar Swadaya, Jakarta.
- Agustin, H.M. 2019. Uji daya hasil galur harapan generasi F6 tanaman kedelai (*Glycine max* L. Merrill). *Skripsi*. Fakultas Pertanian. Universitas Brawijaya, Malang.
- AVRDC (Asian Vegetable Research and Development Center). 1979. *Soybean Report*. Shanhwa, Taiwan.
- Badan Pusat Statistik. 2020. *Impor Kedelai Menurut Negara Asal Utama, 2010-2019*. <https://www.bps.go.id/statictable/2019/02/14/2015/impor-kedelai-menurut-negara-asal-utama-2010-2019.html>. Diakses pada 7 September 2020.
- Balitbangtan. 2016. *Tahan Pecah Polong pada Varietas Kedelai*. <http://www.litbang.pertanian.go.id/info-teknologi/2594/>. Diakses pada 4 Desember 2020.
- Bal itkabi. 2016. *Upaya Meningkatkan Produksi Kedelai di Lahan Pasang Surut*. <http://balitkabi.litbang.pertanian.go.id/berita/upaya-meningkatkan-produksi-kedelai-di-lahan-pasang-surut/>. Diakses pada 7 September 2020.
- Bal itkabi. 2016. *Deskripsi Varietas Unggul Kedelai 1918-2016*. Balai Penelitian Umbi dan Kacang-kacangan. Malang.
- Bara, N., Khare, D. & Shrivastava, A. 2013. Studies on the factors affecting pod shattering in soybean. *Indian Journal of Genetics and Plant Breeding*. 73: 270-277.
- Bhor, T.J., Chimote, V.P., & Desmukh, M.P. 2014. Inheritance of pod shattering in soybean (*Glycine max* L. Merrill). *Electric Journal of Plant Breeding*. 5(4): 671-676.

- Boasiako, A. 2017. Screening of soybean (*Glycine max* L. Merrill) genotypes for resistance to lodging and pod shattering. *Int. Journal of Agron. And Agric. Sci.* 10(5): 1-8.
- Bonato, E.R. & Vello, N.A. 1999. E6, a dominant gene conditioning early flowering and maturity in soybeans. *Genetic and Molecular Biology.* 22(2): 229-232.
- Campelo, G.J., Kiihl, R.A.S., Almeida, L.A. 1998. *Soybean: Development for low latitude region.* Embrapa Meio-Norte, Teresina.
- Cober, E.R. 2011. Long juvenile soybean flowering responses under very short photoperiods. *Crop Science.* 51(1): 140-145.
- Desjardin, P.R. & Conklin, D.S. 2010. NanoDrop microvolume quantitation of nucleic acids. *Journal. Vis. Exp.* 45: 1-4.
- Dong, Y., Yang, X., Liu, J., Wang, B., Liu, B., & Wang, Y. 2014. Pod shattering resistance associated with domestication is mediated by a NAC gene in soybean. *Nature communication.* 5 (3352): 1-11.
- Doyle, J.J. & Doyle, J.L. 1990. Isolation of plant DNA from fresh tissue. *Focus (Madison).* 12(1): 13-15.
- Dwiputra, A.H., Indradewa, D., & Susila, E.T. 2015. Hubungan komponen hasil dan hasil tiga belas kultivar kedelai (*Glycine max* (L.) Merrill). *Jurnal Vegetalika.* 4(3): 14-28.
- Ferreira, D.F. 2011. Review Sisvar a computer statistical analysis system. *Cience Agrotecnologia Lavras.* 35(6): 1039-1042.
- FFSP [Florida Foundation Seed Producers]. 2013. *Hinson Long Juvenile.* www.ffsp.net/varieties/soybean/hinson-long-juvenile/. Diakses pada 10 November 2020.
- Funatsuki, H., Suzuki, M., Hirose, A., Inaba, H., Yamada, T., Hajika, M., Komatsu, K., Katayama, T., Sayama, T., Ishimoto, M., & Fujino, K. 2014. Molecular basis of shattering resistance boosting global dissemination of soybean. *PNAS.* 11(50): 17797-17802.
- Grichar, W.J., Biles, S., Janak, J.D., & McGuill, P. 2011. Soybean yield along the Texas Gulf Coast during periods of variable rainfall as influenced by soybean cultivar and planting date. *International Journal of Agronomy.* 2011: 1-15.
- Hakim, L. 2017. Komponen hasil dan karakter morfologi penentu hasil kedelai pada lahan sawah tadah hujan. *Penelitian Pertanian Tanaman Pangan.* 1(1): 65-72.

- Harahap, A.S. 2017. Uji kualitas dan kuantitas DNA beberapa populasi pohon kapur Sumatera. *Journal Of Animal Science And Agronomy Panca Budi*. 2(2): 1-6.
- Ikhwani, A.Z.N. 2014. Seleksi primer RAPD-PCR untuk menampilkan pola pita DNA meniran (*Phyllanthus* sp.) dan kapulaga lokal (*Amomum cardamomum*). *Skripsi*. Departemen Biokimia, Fakultas Matematika dan Ilmu Pengetahuan Alam, Institut Pertanian Bogor, Bogor.
- Indriningtyas, I. & Poerwoko, M.S. 2020. Studi karakter morfologi dan kandungan fenol pada sepuluh genotipe kedelai (*Glycine max* (L.) Merrill). *Berkala Ilmiah Pertanian*. 3(1): 1-6.
- International Institute of Tropical Agriculture (IITA) 1986. A laboratory method for evaluating resistance to pod shattering in soybean. *Annual Report*. IITA, Ibadan, Nigeria.
- Iqbal, Z., Arsyad, M., Ashraf, M., Naeem, R., & Waheed, A. 2010. Genetic divergence and correlation studies of soybean (*Glycine max* (L.) Merrill) genotypes. *Journal Bot*. 42: 971-976.
- Islam, M.R., Fujita, D., Watanabe, S., & Zheng, S.H. 2019. Variation in photosensitivity of flowering in the world soybean mini-core collection (GmWMC). *Plant Production Science*. 22(2): 220-226.
- James, A.T. & Lawn, R.J. 2011. Application of physiological understanding in soybean improvement. II. Broadening phenological adaptation across regions and sowing dates. *Crop and Pasture Science*. 61: 1-26.
- Jayasumarta, D. 2012. Pengaruh sistem olah tanah dan pupuk p terhadap pertumbuhan dan produksi tanaman kedelai (*Glycine max* L. Merrill). *Jurnal Agrium*. 17(3): 148-154.
- Khan, M.H., Tyagi, S.D., & Dar, Z.A. 2013. *Screening of Soybean (Glycine max (L.) Merrill) Genotypes for Resistance to Rust, Yellow Mosaic and Pod Shattering Chapter 7*. INTECH, India.
- Krisdiana, R. 2014. Penyebaran varietas unggul kedelai dan dampaknya terhadap ekonomi perdesaan. *Jurnal Penelitian Pertanian Tanaman Pangan*. 33(1): 61-69.
- Krisnawati, A. 2017. Kedelai sebagai sumber pangan fungsional. *Iptek Tanaman Pangan*. 12(1): 57-65. P.64-72.
- Krisnawati, A. & Adie, M.M. 2017. Heterosis, heterobeltiosis, dan aksi gen beberapa karakter agronomis kedelai. *Prosiding Seminar Hasil Penelitian Tanaman Aneka Kacang dan Umbi*. P. 39-51.

- Krisnawati, A. & Adie, M.M. 2019. Evaluasi ketahanan galur harapan kedelai terhadap pecah polong dan keragaan karakter agronomi yang sesuai untuk iklim tropis. *Jurnal Biologi Indonesia*. 15(1): 97-106.
- Krisnawati, A., Sugianto, A., Waluyo, B., & Kuswanto. 2019. Selection of F6 soybean population for pod shattering resistance. *Biodiversitas*. 20(11): 3340-3346.
- Krisnawati, A., Adie, M.M., & Harnowo, D. 2015. Ragam ketahanan genotipe kedelai terhadap pecah polong. *Prosiding Seminar Hasil Penelitian Tanaman Aneka Kacang dan Umbi*, Malang. P. 33-41.
- Lamlom, S.F., Zhong, X., Su, B., Wu, H., Zhang, X., Fu, J., Zhang, B., & Qiu, L.J. 2020. Map based cloning of a novel QTL qBN-1 influencing branch number in soybean (*Glycine max* (L.) Merr.). *The Crop Journal*. 8(2020): 793-801.
- Li, M., Liu, Y., Wang, C., Yang, X., Li, D., Zhang, X., Xu, C., Lih, W. & Zhao, L. 2020. Identification of traits contributing to high and stable yields in different soybean varieties across three chinese latitudes. *Front. Plant Sci*. 10 (1642): 1-14.
- Li, X., Fang, C., Xu, M., Zhang, F., Lu, S., Nan, H., Li, X., Su, T., Li, S., Zhao, S., Kong, L., Yuan, X., Liu, B., Abe, J., Cober, E.R., & Kong, F. 2017. Quantitative trait locus mapping of soybean J locus improves adaptation to the tropics and enhances yield. *Nature Genetic*. 49(5): 2547-2554.
- Liu, D., Yan, Y., Fujita, Y. & Xu, D. 2018. Identification and validation of QTLs for 100-seed weight using chromosome segment substitution lines in soybean. *Breeding Science*. 68: 442-448.
- Li-xin, Z., Wei, L., Tsegaw, M., Xin, X., Yan-ping, Q., Sapey, E., Lu-ping, L., Ting-ting, W., Shi, S. & Tian-fu, H. 2020. Principles and practices of the photo-thermal adaptability improvement in soybean. *Journal of Integrative Agriculture*. 19(2): 295-310.
- Mardin, M.J. 2011. Aplikasi uji gugus Scott-Knott dalam bidang pertanian. *Skripsi*. Universitas Pendidikan Indonesia, Bandung.
- Marliah, A., Hidayat, T., & Husna, N. 2012. Pengaruh varietas dan jarak tanam terhadap pertumbuhan kedelai (*Glycine max* (L.) Merrill). *Jurnal Agista*. 16(1): 22-28.
- Miranda, C. 2018. Adaptation of soybean to tropical environments for smallholder farmers. *Dissertation*. Faculty of the Graduate School, University of Missouri, Columbia.
- Miranda, C., Scaboo, A., Cober, E., Denwar, N., & Bilyeu, K. 2020. The effects and interaction of soybean maturity gene alleles controlling flowering time,

- maturity, and adaptation in tropical environments. *BMC Plant Biology*. 20(65): 1-13.
- Nugroho, K., Terryana, R.T., Rijzaani, H. & Lestari, P. 2016. Metode ekstraksi DNA pada *Jatropha spp.* tanpa menggunakan nitrogen cair. *Jurnal Littri*. 22(4): 159-166.
- Nurhidayah, F., S. Zubaidah & H. Kuswanto. 2016. Perbandingan umur perbungaan dan umur masak galur harapan dengan kedelai tahan CpMMV (*Cowpea Mild Mottle Viruses*) varietas unggul pada penanaman agustus-november 2015. *Prosiding Seminar Nasional Biologi*. p. 49-52.
- Prasetiaswati, N. & Kuswanto, H. 2015. Respon petani terhadap calon varietas unggul kedelai berbiji besar di lahan kering masam. *Prosiding Seminar Hasil Penelitian Tanaman Aneka Kacang dan Umbi*. P. 394-401.
- Putra, A., Barnawi, M. & Sa'diyah, N. 2015. Penampilan karakter agronomi beberapa genotipe harapan tanaman kedelai (*Glycine max* [L.] Merrill) generasi F6 hasil persilangan Wilis x Mlg2521. *Jurnal Agrotek Tropika*. 3(3): 348-354.
- Rachman, A., Subiksa, I.G.M., & Wahyunta. 2013. *Teknik Produksi dan Pengembangan Kedelai : Perluasan Areal Tanaman Kedelai ke Lahan Suboptimal*. Balai Penelitian Tanaman Kacang-kacangan dan Umbi-umbian, Malang.
- Rau, D., Murgia, M.L., Rodriguez, M., Bitocchi, E., Belluci, E., Fois, D., Albani, D., Nanni L., Gioia, T., Santo, D., Marcolungo, L., Delledonne, M., Attene, G., & Papa, R. 2018. Genomic dissection of pod shattering in common bean; mutations at non-orthologous loci at the basis of convergent phenotypic evolution under domestication of leguminous species. *The Plant Journal*. 97(4): 693-714.
- Sa'diyah, N., Siagian, C.R. & Barmawi, M. Korelasi dan analisis sidik lintas karakter agronomi kedelai (*Glycine max* [L.] Merrill) keturunan persilangan Wilis x Mlg 2521. *Jurnal Penelitian Pertanian Terapan*. 16(1): 45-53.
- Sa'diyah, N., Zulkarnain, J., & Barmawi, M. 2016. Uji daya hasil beberapa galur kedelai (*Glycine max* [L.] Merrill) hasil persilangan Wilis dan Mlg 2521. *Jurnal Agrotek Tropika*. 4(2): 117-123.
- Sapey, E., Fang, Y., Khojely, D.M., Song, W., Jiang, B., Yuan, S., Sun, S. & Han, T. 2021. Field-based screening and haplotyping of *j* locus for long juvenile trait in tropical soybean genotypes. *Legume Research*. DOI: 10.18805/LR-603.
- Singh, R.J. 2017. Botany and cytogenetics of soybean dalam Nguyen, H.T. & Bhattacharyya (Eds.) *The Soybean Genome*. Springer International Publishing, Cham.

- Sjamsijah, N., Varisa, N., & Suwardi. 2018. Uji daya hasil beberapa genotipe tanaman kedelai (*Glycine max* (L.) Merrill) produksi tinggi dan umur genjah generasi F6. *Jurnal Agriprima*. 2(2): 106-116.
- Song, J., S. Xun, K. Zhang, S. Liu, J. Wang, C. Yang, S. Jiang, M. Siyal, X. Li, Z. Qi, Y. Wang, X. Tian, Y. Fang, Z. Tian, W. Li & H. Ning. 2020. Identification of QTL and genes for pod number in soybean by linkage analysis and genome-wide association studies. *Molecular Breeding*. 40(60): 1-14.
- Subejo. 2019. *Mungkinkah Indonesia Tanpa Impor Pangan*. www.kompasiana.com. Diakses pada 7 September 2020.
- Suhartina, Purwantoro, Taufiq, A., & Nugrahaeni, N. 2013. *Panduan Roguing Tanaman dan Pemeriksaan Benih Kedelai*. Balai Penelitian Tanaman Aneka Kacang dan Umbi, Malang.
- Sumarno & Manshuri, A.G. 2016. *Persyaratan Tumbuh dan Wilayah Produksi Kedelai di Indonesia*. Balai Penelitian Tanaman Kacang-kacangan dan Umbi-umbian, Malang.
- Sundari. 2017. Pengembangan protokol isolasi DNA genom tanaman durian dengan menggunakan modifikasi bufer CTAB. *Jurnal Techno*. 6(2): 30-37.
- Susanto, G.W.A. & Nugrahaeni, N. 2017. *Pengenalan dan Karakteristik Varietas Unggul Kedelai*. Balitkabi, Malang.
- Syaputra, I., Suryati, D., & Djamilah. 2017. Pertumbuhan dan hasil 9 galur harapan kedelai (*Glycine max* (L.) Merrill). Pada lahan berpasir. *Jurnal Akta Agrosia*. 20(1): 17-24.
- Syahputra, A., Mutaqin, K.H., & Darmayanti, T.A. 2016. Komparasi metode isolasi DNA patogen antraknosa dan bulai untuk deteksi PCR. *Jurnal Fitopatologi Indonesia*. 12(4): 124-132.
- Syukur, M., Sujiprihati, S., & Yuniarti, R. 2015. *Teknik Pemuliaan Tanaman*. Edisi Revisi. Penebar Swadaya, Jakarta.
- Tasma, I.M. 2013. Gen dan QTL pengendali umur pada kedelai. *Jurnal Agrobiogen*. 9(2): 85-96.
- Tasma, I.M., Yani, N.P.M.G., Purwaningdyah, R., Satyawan, D., Nugroho, K., Lestari, P., Trijatmiko, K.R., & Mastur. 2018. Genetic diversity analysis and F2 population development for breeding of long juvenile trait in soybean. *Jurnal Agrobiogen*. 14(1): 11-22.
- Taufiq, A. & Sundari, T. 2012. Respon tanaman kedelai terhadap lingkungan tumbuh. *Buletin Palawija*. 23: 13-26..

- Tefera, H., Bandyopadhyay, R., Adeleke, R.A., Boukar, O., & Mohammed, I. 2009. Grain yield of rust resistant promiscuous soybean lines in the Guinea Savanna of Nigeria. *Afr. Crop Science Confer. Proc.* P. 129-134.
- Wahyuni, S., Trisnaningsih, U., & Prasetyo, M. 2018. Pertumbuhan dan hasil sembilan kultivar kedelai (*Glycine max* (L.) Merrill) di lahan sawah. *Jurnal Agrosintesa.* 1(2): 96-102.
- Warbaal, A., Renwarin, J., Mawiker, N.L., & Mustamu, Y.A. 2019. Daya hasil beberapa varietas kedelai unggul nasional di Distrik Manokwari Barat dan Sidey Provinsi Papua Barat. *Cassowary.* 2(2): 106-113.
- Wirnas, D., Trikoesoemaningtyas, Sutjahjo, S.H., Sopandie, D., Rohaeni, W.R., Marwiyah, S., & Sumiati. 2012. Keragaman karakter komponen hasil dan hasil pada genotipe kedelai hitam. *Jurnal Agron. Indonesia.* 40(3): 184-189.
- Xiang, D., Yu, X., Wan, Y., Guo, K., Yang, W., Gong, W. & Cui, L. (2013) Responses of soybean lodging and lodging related traits to potassium under shading by maize in relay strip intercropping system. *African Journal of Agriculture Research.* 8(49): 6499-6508.
- Yue, Y., Liu, N., Jiang, B., Li, M., Wang, H., Jiang, Z., Pan, H., Xia, Q., Ma, Q., & Han, T. 2017. A single nucleotide deletion in J encoding GmELF3 confers long juvenility and is associated with adaptation of tropic soybean. *Molecular Plant.* 10(4): 656-658.
- Zhang, L. & Boahen, S. 2010. Evaluation of critical shattering time of early-maturity soybeans under early soybean production system. *Agric. Biol. J. N. Am.* 1(4): 440-447.
- Zhang, Q., Tu, B., Liu, C., & Liu, X. 2018. Pod anatomy, morphology and dehiscing forces in pod dehiscence of soybean (*Glycine max* (L.) Merrill). *Flora.* 248: 48-53.