



## DAFTAR PUSTAKA

- Ageev, A., Cheng-Ruei, L., Chau-Ti, T., Roland, S., Eric, B., Sergey, V.N., Maria, S., and Konstantin, K. 2021. Modeling of flowering time in *Vigna radiata* with approximate bayesian computan. *Agronomy*, 11(11): 1-16.
- Allard, R.W. 1992. *Principles of Plant Breeding*. Jakarta: PT. Rineka Cipta.
- Amiryousefi, A., J. Hyvonen., and P. Poczai. 2018. iMEC: online marker efficiency calculator. *Application in Plant Science*, 6(6): 1-4.
- Anantyarta, P. 2017. Identifikasi variasi genetik kerbau (*Bubalus bubalis*) Pacitan dan Tuban berbasis mikrosatelit. *Bioeksperimen*, 3(1): 11-28.
- Arias, S.O., Gustavo, I., and Romain, G. 2019. Retrotransposon in plant genomes: structure, identification, and classification through bioinformatics and machine learning. *International Journal of Molecular Sciences*, 20: 1-31.
- Azizah, U.D.L., F. Yulianti., A.L. Adirejo., dan Sitawati. 2019. Analisis kekerabatan plasma nutfah tanaman stroberi (*Fragaria* Sp) berdasarkan karakter morfologi dan *Random Amplified Polymorphic DNA* (RAPD). *Plantropica Journal of Agricultural Science*, 4(1): 77-85.
- Azeez, S.O., and Faluyi, J.O. 2018. Hybridization in four *Nigerian physalis* (Linn.) species. *Notulae Scientia Biologicae*, 10(2): 205-210.
- Azrai, M. 2005. Pemanfaatan penandah molekuler dalam proses seleksi pemuliaan tanaman. *Jurnal AgroBiogen*, 1(1): 26-37.
- Arvas, Y.E., M.M. Abed., Q.A. Zaki., I. Kocacaliskan., and E.K. Haji. The potential role of transposable elements as molecular markers. *IOP Conference Series: Earth and Environmental Science*: 1-8.
- Balai Penelitian Tanaman Kacang-kacangan dan Umbi-umbian. 2013. *Teknik Budidaya Tanaman Kacang Hijau*. Malang.
- Barus, W.A., H. Khair., dan M.A. Siregar. 2014. Respon pertumbuhan dan produksi kacang hijau (*Phaseolus radiatus* L.) akibat penggunaan pupuk organik cair dan pupuk TSP. *Agrium*, 19(1): 1-11.
- Bhat, A., Trupti, G., Sonali, B., Ganesh, P.L., Arti, D., Rakesh, K., Raj, K.P., Krishna, M.B., Kenneth, S.R., and Tej, K.P. 2022. Role of transposable element in genome stability: implications for health and disease. *International Journal of Molecular Sciences*, 23: 1-24.
- Boronnikova, S.V., and Kalendar, R.N. 2010. Using IRAP markers for analysis of genetic variability in population of resource and rare species of plants. *Russian Journal of Genetics*, 46(1): 44-50.
- Basundari, F.R.A. 2016. Tinjauan penggunaan penanda DNA untuk seleksi ketahanan penyakit tanaman. *Buletin Agro-Infotek*, 2(1): 43-50.
- Collard, B.C.Y., and Mackill, D.J. 2008. Marker assisted selection: an approach for precision plant breeding in the twenty first century. *Philosophical Transaction: Biological Science*. 363(1491): 557-572.



Crowder, L.V. 1993. Genetika Tumbuhan (Terjmehan L. Kusdiarti dan Soetarso). Gadjah Mada University Press, Yogyakarta.

Dongare, M.D., S. Alex., K.B. Soni., K.P. Sindura., D.S. Nair., and E. Jose. 2023. Cross-species transferability of IRAP retrotransposon markers an dpolymorphism in black pepper (*Piper nigrum* L.). Genetic Resource Crop Evolution: 1-13.

Fatmawati, Y., Agus, B.S., Aziz, P., Dyah, W.P., and Chee, H.T. 2021. Analysis of genetic variability in F2 interspecific hybrids of mung bean (*Vigna radiata*) using inter-retrotransposon amplified polymorphism marker system. Biodiversitas, 22(11): : 4880-4889.

Fonseca, A., Joana, F., Tiago, R.B.S., Magdalena, M., Elisa, B., James, K., Paul, G., Valeris, G., Dieter, S., Karla, G.B.S., and Andrea, P.H. 2010. Cytogenetic map of common bean (*Phaseolus vulgaris* L.). Chromosome Research, 18(4): 487-502.

Gijzen, M., C. Wang., K. Kuflu., L. Woodrow., K. Yu., and V. Poysa. 2003. Soybean seed lustre phenotype and surface protein cosegrate and map to linkage group E. Genome, 46: 659-664.

Haryanto, T.A., A. Riyanto., dan D. Susanti. 2019. Pola segregasi pewarisan karakter komponen hasil dan hasil pada generasi F2 hasil persilangan padi (*Oryza sativa* L.) Inpari 31 dan Delta 9. Prosiding Seminar Nasional dan Call for Papers. 102-108.

Hidayati, E. Saleh, dan T. Aulawi. 2016. Identifikasi keragaman gen BMPR-1B (*Bone Morphogenetic Protein Receptor 1B*) pada ayam arab, ayam kampung, dan ayam ras petelur menggunakan PCR-RFLP. Jurnal Peternakan, 13(1): 1-12.

Huppertz, M., L. Manasa., D. Kachhap., A. Dalai., N. Yadav., D. Baby., M.A. Khan., P. Bauer., and K.C.S., Panigrahi. 2023. Exploring the potential of mung bean: from domestication and traditional selection to modern genetic and genomic technologies in a changing world. Journal of Agriculture and Food Research, 14:1-9.

Ihsanto, T.D., F. Kusmiyati., S. Anwar., M.G.A. Sas., and F.P.Putra. 2023. Agromorphological characteristics, anthocyanin, and sweetnes level of yardlong bean genotypes (*Vigna unguiculata* (L.) ssp. *sesquipedalis*). IOP Conferences Series: Earth and Environmental Science:1-6.

Jayusman, M. Na’iem, S. Indrioko, E.B. Hardiyanto, and I. Nurcahyaningsih. 2017. Assesment of genetic diversity among surian *Toona sinensis* Roem in progenies test using random amplified polymorphic DNA markers. Indonesian Journal of Biotechnology, 22(1): 22-30.

Juvik, G.A., R.L. Bernard., R. Chang., and J.F. Cavins. 1989. Evaluation of the USDA wild soybean germplasm collection. USDA Technical Bulletin, 1761.

Kaga, A., Ohnishi, M., Ishii T, and Kamijima, O. 1996. A genetic linkage map of azuki bean constructed with molecular and morphological markers using an interspecific population (*Vigna angularis*, *V. nakashimae*). Theory Application Genetic 93:658–663.



- Kalendar, R., and Alan, H.S. 2007. IRAP and REMAP for retrotransposon-based genotyping and fingerprinting. *Nature Protocol*, 1(5): 2478-2484.
- Kalender, R., Grob, T., Regina, M., Suoniemi, A., and Schulman, A. 1999. IRAP and REMAP: two new transposon-based DNA fingerprinting. *Theory Application Genetic*, 98: 704-711.
- Kang, Y.J., Kim, S.K., Kim, M.Y., Lestari, P., Kim, K.H., Ha, B.K., Jun, T.H., Hwang, W.J., and Lee, T.J. 2014. Genome suquence of mungbean and insights into evolution within *Vigna* species. *Nat Commun*, 5.
- Khandappagol, M., M.P. Rajanna., and S.K. Savita. 2019. Variability and frequency distribution studies in F2 population of two crosses involving traditional varieties of rice (*Oryza sativa*). *Journal of Pharmacognosy and Phytochemistry*, 8(1): 1630-1634.
- Kim, H., Shingo, T., Chikako, N., Kanako, K., Hiroyuki, K., Yuichi, K., Yutaka, S., Toshihiro, S., and Toshiya, Y. 2012. Development of cultivar-specific DNA markers based on retrotransposon-based insertional polymorphism in Japanese pear. *Breeding Science*, 62: 53-62.
- Knight, J.C. 2004. Allele-specific gene expression uncovered. *TRENDS in Genetics*, 20(3): 113-116.
- Konzen, E.R., and S. M. Tsai. 2014. Seed coat shininess in *Phaseolus vulgaris*: rescuing a neglected trait by its screening on commercial lines and landraces. *Journal of Agricultural Science*, 6(8): 1-18.
- Kovach, R. P., G. Luikart., W.H. Lowe., M.C. Boyer., and C.C. Muelfeld. 2016. Risk and efficacy of human-enabled interspecific hybridization for climate-change adaptation: response to Hamilton and Miller. *Conservation Biology*, 30(2): 428-430.
- Kumar, A., and Jeffrey, L.B. 1999. Plant Retrotransposon. *Annual Review of Genetics*.
- Lazuardi, S.N., dan Panjisakti, B. 2022. Analisis genetik generasi F2 hasil persilangan buncis (*Phaseolus vulgaris* L.) tipe merambat dengan tipe semak. *Vegetalika*, 11(2): 151-162.
- Leigh, F., J.R., Law., V.J. Lea., P. Donini., and J.C. Reeves. 2003. A comparison of molecular markers and statistical tools for diversity and EDV assessments, in the wake of the double helix: from the green revolution to the gene revolution. *Proceedings of an International Congress Held in Bologna*, 349–363
- Li, S., Muthusamy, R., Kunnumal, K.V., Ruslan, K., Kim, Y., and Mingbing, Z. 2019. Development and deployment of high-throughput retrotransposon-based markers reveal genetic diversity and population structure of asian bamboo. *Forest*, 11(31): 1-25.
- Nei, M. 1972. Genetic distance between populations. *The American Naturalist*, 106(949): 283-292.



Novalina., dan A.D. Sagala. 2011. Studi segregasi dan pewarisan penanda-penanda RAPD pada tanaman karet hasil persilangan PB 260 dengan PN. Biospecies, 4(2): 18-26.

Pandiyan, M., N. Senthil., N. Ramamoorthi., A.R. Muthiah., N. Tomooka., V. Duncan., and T. Jayaraj. 2010. Interspecific hybridization of *Vigna radiata* x 13 wild *Vigna* species for developing MYMV donor. Electronic Journal of Plant Breeding, 1(4): 600-610.

Peakall, R., and Peter, E.S. 2012. GenAlEx 6.5: genetic analysis in excel population genetic software for teaching and research. Bioinformatics, 28(19): 2537-2539.

Pratiwi, E., dan Lovendo, I.W. 2020. Kuantifikasi hasil ekstraksi gen sebagai faktor kristis untuk keberhasilan pemeriksaan RT-PCR. Indonesian Journal for Health Sciences, 4(1): 1-9.

Puspitasari, I., Elkawakib, S., dan Muh. R. 2021. Produksi tiga varietas kacang hijau (*Vigna radiata* L.) yang diaplikasi fosfat alami. Jurnal Agrivivor, 12(1): 6-11.

Rohlf, F.J. 1997. NTSYS-pc Version. 2.02i Numerical Taxonomy and Multivariate Analysis System. Applied Biostatistics Inc., Exeter Software, Setauket, New York.

Rosenberg, N.A. 2012. A population-genetic perspective on the similarities and differences among worldwide human populations. Hum Biology, 83(6): 1-32. Setiawan, A.B., Q.A. Zahidah., D. N. Kaltsum., and A. Purwantoro. 2023. Phenotypic variability evaluation and genetic variation in F2 intraspesific hybrids of cucumber (*Cucumis sativus* L.) using retrotransposon-based markers. Biodiversitas, 24(5): 2596-2604.

Sitepu, M.B., dan M. Bangun. 2015. Persilangan genotipe-genotipe kedelai (*Glycine max* L. Merrill.) hasil seleksi pada tanah salin dengan tetua betina varietas anjasmoro. Jurnal Online Agroteknologi, 3(1): 257-263.

Sudharmawan, A.A.K., I.G.P.M. Aryana., dan Jusmiati. 2019. Distribusi dan pola segregasi karakter kuantitatif F2 persilangan padi situs patenggang dengan IPB 3S. Jurnal Sains Teknologi dan Lingkungan, 5(2): 105-111.

Sen, N.K., and M.K. Jana. 1964. Genetic of black gram (*Phaseolus mungo* L.). Genetica, 34: 46-57.

Serrote, C.M.L., L.R.S. Reiniger., K.B Silva., S.M.S. Rabaiolli., and C.M. Stefanel. 2019. Determining the polymorphism information content of molecular marker. Journal Pre-proofs: 1-14.

Setiawan, A.B., Q.A. Zahidah., D.N. Kaltsum., and A. Purwantoro. 2023. Phenotypic variability evaluation and genetic variation in F2 intraspesific hybrids of cucumber (*Cucumis sativus* L.) using retrotransposon-based markers. Biodiversitas, 24(5): 2596-2604.

Singh, F., and Oswalt, D.L. 1992. Pigeonpea Botany and Production Practices. India: Icrisat.



Singh, H., Bhallan, S.S., Pradeep, K., Rajinder, K.D., Ruma, D., Tarsem, S.D., Suman, S., Anil, K., Ramesh, K.Y., Bhoopal, S.T., Theodora, N., Leo, S., and Georgia, N. 2023. Genetic mechanism for hybrid breeding in vegetable crops. Plant, 12: 1-25.

Smykal, P., Valledor, L., Rodriguez, R., and Griga, M. 2007. Assesment of genetic and epigenetic stability in long-term in vitro shoot culture of pea (*Pisum sativum* L.). Plant Cell Reports, 26: 1985-1998.

Susanto, N., Respartijarti., dan A.N. Sugiharto. 2016. Uji keunikan dan keseragaan beberapa galur inbrida jagung manis (*Zea mays* L. Saccharata Sturt). Plantropica, 1(2): 49-54.

Syukur, M., Sriani, S., dan Rahmi, Y. 2018. Teknik Pemuliaan Tanaman. Jakarta Timur: Penebar Swadaya.

Takdir, M. A., Sri, S., dan Made, J.M. 2010. Pembentukan Varietas Jagung Hibrida. Jurnal Balai Penelitian Tanaman Serealisa, Maros. 5(2): 74-93.

Tao, N.G., Xu, J., Cheng, Y.C., Hong, L., Guo, W.W., Yi, H.L., and Deng, X.X. 2005. Isolation and characterization of copia-like retrotransposon from 12 sweet orange (*Citrus sinensis* Osbeck) cultivars. Journal of Integrative Plant Biology, 47: 1507-1515.

Trustinah, Radjit, B.S., Prasetiawati, N., dan Harnowo, D. 2014. Adopsi varietas unggul kacang hijau di Sentra Produksi. Iptek Tanaman Pangan, 9(1): 24-38.

Yunira, I., E.R. Palupi., dan Darliah. 2008. Persilangan intervarietas, interspesies, intergenus pada family Zingiberaceae. Makalah Seminar Departemen Agronomi dan Hortikultura, Fakultas Pertanian, Institut Pertanian Bogor.