

DAFTAR PUSTAKA

- Alzohairy, A. M., Gyulai, G., Ramadan, M. F., Edris, S., Sabir, J. S. M., Jansen, R. K., Eissa, H. F., & Bahieldin, A. (2014). Retrotransposon-based molecular markers for assessment of genomic diversity. *Functional Plant Biology*, 41(8), 781–789. <https://doi.org/10.1071/FP13351>
- Assis, R., V. Y. Baba, L. A. Cintra, L.S.A. Gonçalves, R. Rodrigues and A.L.L. Vanzela. 2020. Genome relationships and LTRretrotransposon diversity in three cultivated *Capsicum* L. (Solanaceae) species. *BMC Genomics* 21 (237): 1-24
- Azrai, M. 2005. Ulasan. Pemanfaatan Markah Molekuler dalam Proses Seleksi Pemuliaan Tanaman. *Jurnal AgroBiogen* 1(1):26-37.
- Basirnia A, Darvishzadeh R, Abdollahi Mandoulakani B. 2016. Retrotransposon insertional polymorphism in sunflower (*Helianthus annuus* L.) lines revealed by IRAP and REMAP markers. *Plant Biosyst* 150: 641-652. DOI: 10.1080/11263504.2014.970595.
- Bennetzen JL, Wang H. The contributions of transposable elements to the structure, function, and evolution of plant genomes. *Annu Rev Plant Biol*. 2014;65:505–30.
- Biswas MK, Baig MNR, Cheng YJ, Deng XX (2010) Retrotransposon based genetic similarity within the genus citrus and its relatives. *Genet Resour Crop Evol* 7:963–972.
- Boronnikova, S. V., & Kalendar, R. N. (2010). Using IRAP Markers for Analysis of Genetic Variability in Populations of Resource and Rare Species of Plants. *Russian Journal of Genetics*, 46(1), 36–42.
- Casacuberta E, González J. 2013. The impact of transposable elements in environmental adaptation. *Mol Ecol*. 22(6):1503–17.
- Dixit, A., Ma, K., Yu, J., Cho, E., & Park, Y. (2006). Reverse transcriptase domain sequences from Mungbean (*Vigna radiata*) LTR retrotransposons : Sequence characterization and phylogenetic analysis. *Plant Cell Rep*, 25, 100–111. <https://doi.org/10.1007/s00299-005-0008-2>
- Elbarbary RA, Lucas BA, Maquat LE. 2016. Retrotransposons as regulators of gene expression. *Science* 351: 1-18. DOI: 10.1126/science.aac7247.
- Esin, A., B. Hilal, Y. Selcen, Y. Tolga. 2016. Androgenic responses of 64 ornamental pepper (*Capsicum annuum* L.) genotypes to shed-microspore culture in the autumn season .*Turk J Biol* 40: 706-717.
- Fatmawati Y, Setiawan AB, Purwantoro A, Respatie DW, Teo CH. 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. DOI: 10.13057/biodiv/d221121.

- Fatmawati Y. 2022. Validasi Genetik Berdasarkan Penanda Retrotransposon dan Evaluasi Komponen Hasil pada Populasi F2 dan F3 Hasil Persilangan Intergenerik [Kacang Hijau (*Vigna radiata*) x Buncis (*Phaseolus vulgaris*)]. [Thesis]. Universitas Gadjah Mada, Yogyakarta. [Indonesian]
- Galindo-Gonzalez L, Mhiri C, Deyholos MK, Grandbastien MA. LTRretrotransposon pada tumbuhan: mesin evolusi. *Gen. Wahyu* 2017;626:14–2
- Glaubitz, J. ., & Moran, G. F. (2000). Genetic tools : the use of biochemical and molecular markers. In *Forest conservation genetics: principle and practice* (pp. 39–59). CABI Publishing.
- Goodier, J. L., & Kazazian, H. H. (2008). Retrotransposons Revisited: The Restraint and Rehabilitation of Parasites. *Cell*, 135(1), 23–35. <https://doi.org/10.1016/j.cell.2008.09.022>
- Greenleaf, W.H. 1986. Pepper Breeding. In Basset, M.J (Ed). *Breeding Vegetable Crops*. Conecticut: AVI Publishing Co.
- Kalendar R., and Schulman AH. 2006. IRAP and REMAP for retrotransposonbased genotyping and fingerprinting. *Nat Protoc* 1 (5): 2478-2484. DOI: 10.1038/nprot.2006.377.
- Kalendar R. and Schulman AH. 2014. Transposon-Based Tagging: IRAP, REMAP, and iPBS. In: Besse P (Ed). *Molecular Plant Taxonomy*. Vol. 1115. Humana Press, Totowa.
- Kim SK, Nair RM, Lee J, Lee SH. 2015. Genomic resources in mung bean for future breeding programs. *Front Plant Sci* 6: 626. DOI: 10.3389/fpls.2015.00626.
- Konovalov FA, Goncharov NP, Goryunova S, Shaturova A, Proshlyakova T, Kudryavtsev A. 2010. Molecular markers based on LTR retrotransposons BARE-1 and Jeli uncover different strata of evolutionary relationships in diploid wheats. *Mol Genet Genomics* 283: 551-563. DOI:10.1007/s00438-010-0539-2.
- Kumar, A., & Hirochika, H. (2001). Applications of retrotransposons as genetic tools in plant biology. *Trends in Plant Science*, 6(3), 127–134.
- Kusandriani, Y. 1996. Botani Tanaman Cabai Merah. Dalam buku *Teknologi Produksi Cabai Merah*. Balai Penelitian Tanaman Sayuran. Page 20-27.
- Lee, H.R., M.C. Cho, H.J. Kim, S.W. Park, B.D. Kim. 2008. Marked development for erect versus pendant orientated fruit in *Capsicum annum* L.. *Mol. Cells* 26:548-553.
- Mackill, D. J. & J. Ni. 2000. Molecular Mapping and Marker Assisted Selection for Major-Gene Traits in Rice. In *Proc. Fourth Int. Rice Genetics Symp.* (eds G. S. Khush, D. S. Brar & B. Hardy). Los Banos, The Philippines: International Rice Research Institute. Page 137-151.

- Mirani AA, Teo CH, Markhand GS, Abul-Soad AA, Harikrishna JA. 2020. Detection of somaclonal variations in tissue cultured date palm (*Phoenix dactylifera* L.) using transposable element-based markers. *Plant Cell Tissue Organ Cult* 141: 119-130. DOI: 10.1007/s11240020-01772-y.
- Moghaddam SM, Song Q, Mamidi S, Schmutz J, Lee R, Cregan P, Osorno JM, McClean PE. 2014. Developing market class specific InDel markers from next generation sequence data in *Phaseolus vulgaris* L. *Front Plant Sci* 5: 185. DOI: 10.3389/fpls.2014.00185.
- Mohler, V. & C. Singrun. 2004. General Considerations: Marker-Assisted Selection. In *Biotechnology in Agriculture and Forestry*. Springer. (55): 305-317.
- Monden Y, Hara T, Okada Y, Jahana O, Kobayashi A, Tabuchi H, Onaga S, Tahara M. 2015. Construction of a linkage map based on retrotransposon insertion polymorphisms in sweetpotato via highthroughput sequencing. *Breed Sci* 65: 145-153. DOI: 10.1270/jsbbs.65.145
- Moscone EA, et al. (2007) The evolution of chili peppers (*Capsicum* – *Solanaceae*): A cytogenetic perspective. *Acta Horti* 745:137–170.
- Nadeem, M.A., M. A. Nawaz, M. Q. Shahid, Y. Doğan, G. Comertpay, M. Yıldız, R. Hatipoğlu, F. Ahmad, A. Alsaleh, N. Labhane, H. Özkan, G. Chung and F. S. Baloch, 2018. DNA molecular markers in plant breeding: current status and recent advancements in genomic selection and genome editing. *Biotechnology & Biotechnological Equipment*. 32 (2): 261–285. <https://doi.org/10.1080/13102818.2017.1400401>
- Noutsopoulos, D. (2016). On the Concept Of Retrotransposons : Controlling Genome and Making Stress Memories. *J Biochem Mol Biol Res*, 2(4), 194–202. <https://doi.org/10.17554/j.issn.2313-7177.2016.02.32>
- Orozco-Arias S, Isaza G, Guyot R. 2019. Retrotransposons in plant genomes: Structure, identification, and classification through bioinformatics and machine learning. *Int J Mol Sci* 20: 3837. DOI: 10.3390/ijms20153837
- Qin C, Yu C, Shen Y, Fang X, Chen L, Min J, et al. Whole-genome sequencing of cultivated and wild peppers provides insights into *Capsicum* domestication and specialization. *Proc Natl Acad Sci*. 2014;111(14):5135–40
- Rego, E.R., M.F. Nascimento, N.F.F. Ascimento, R.M.C. Santos, F.L.G. Fortunato, M.M. Rego. 2012. Testing methods for producing self-pollinated fruits in ornamental peppers. *Horticultura Brasileira* 30: 669- 672.
- Ritonga, A. W. 2013. Penyerbukan Silang Alami Beberapa Genotipe Cabai (*Capsicum annuum* L.) dan Penentuan Metode Pemuliaannya. Tesis. Institut Pertanian Bogor. Bogor.
- Saenz, S.M.F. 1984. Caracterizacion Quimica y Agronomica Preliminar de 73 “Tipos” de Chile Picante (*Capsicum* spp.) de la Coleccion Catie. Tesis. Universidad De Costa Rica. San Jose.

- Schulman AH, Flavell AJ, Paux E, Ellis THN. 2012. The application of LTR retrotransposons as molecular markers in plants. In: Bigot Y (Ed). *Mobile Genetics Element: Protocols and Genomic Applications, Method in Molecular Biology*. Humana Press, London.
- Semagn K, Bjørnstad A, Ndjioudjop MN. 2006. An overview of molecular marker methods for plants. *Afr J Biotechnol* (2540):25–68.
- Setiawan AB, Teo CH, Kikuchi S, Sassa H, Kato K, Koba T. 2020a. Chromosomal locations of a non-LTR retrotransposon, *Menolird18*, in *Cucumis melo* and *Cucumis sativus*, and its implication on genome evolution of *Cucumis* species. *Cytogenet Genome Res* 160: 554-564. DOI: 10.1159/000511119.
- Setiawan, A.B., Q. A. Zahidah, D. N. Kaltsum, A. Purwantoro. 2023. Phenotypic variability evaluation and genetic variation in F2 intraspecific hybrids of cucumber (*Cucumis sativus* L.) using retrotransposon-based markers. *BIODIVERSITAS* 24 (5): 2596-2604. DOI: 10.13057/biodiv/d240511
- Sharma V, Nandineni MR. 2014. Assessment of genetic diversity among Indian potato (*Solanum tuberosum* L.) collection using microsatellite and retrotransposon based marker systems. *Mol Phylogenet Evol* 73: 10-17. DOI: 10.1016/j.ympev.2014.01.003.
- Sormin SYM, Purwantoro A, Setiawan AB, Teo CH. 2021. Application of inter-SINE amplified polymorphism (ISAP) markers for genotyping of *Cucumis melo* accessions and its transferability in *Coleus* spp. *Biodiversitas* 22: 2918-2929. DOI: 10.13057/biodiv/d220557.
- Stommel J.R. 2008. Inheritance of Fruit, Foliar, and Plant Habit Attributes in *Capsicum*. *J. AMER. SOC. HORT. SCI.* 133(3):396–407.
- Stommel, J.R. and P.W. Bosland. 2006. Ornamental pepper, *Capsicum annuum*, p. 561–599. In: N.O. Anderson (ed.). *Flower breeding and genetics: Issues, challenges and opportunities for the 21st century*. Springer, Dordrecht, The Netherlands.
- Stommel, J.R., R.J. Griesbach. 2008. Inheritance of fruit, foliar, and plant habit attributes in *Capsicum*. *J. Amer. Soc. Hort. Sci.* 133:396-407.
- Stommel, J.R., Pushko, M., Haynes, K. G. and Whitaker, B.D. 2014. Differential inheritance of pepper (*Capsicum annuum*) fruit pigments results in black to violet fruit colour. *Plant Breeding*, 133, 788–793. doi:10.1111/pbr.12209
- Stommel, J.R and M. Kozlov. 2018. Ornamental Pepper (*Capsicum annuum* L.) Cultivars Comprising the Christmas Lights Cultivar Series. *HORTSCIENCE* 53(3):391–394. 2018. <https://doi.org/10.21273/HORTSCI12574-17>.
- Syukur, M, S. Sujiprihati dan R. Yuniarti. 2018. *Teknik Pemuliaan Tanaman (Edisi Revisi)*. Penebar Swadaya. Jakarta. 348 hal.
- Syukur, M, Sobir, A. Maharijaya, S. I. Aisyah, D. Sukma, Sulassih, A. W. Ritonga, M. R. A. Istiqla, A. Hakim, D. Efendi, K. Suketi, Undang, T. Yudilastari, R.

- Lestari , D. Alvida, E. T. Wulandari, B. Akmala. Varietas Cabai Hias AYESHA IPB. J. Horticulturae J, Februari 2018, 2(1):49-56
- Wang, D., P.W. Bosland. 2006. The genes of Capsicum. HortScience 41:1169-1187.
- Wenke T, Seibt KM, Döbel T, Muders K, Schmidt T. 2015. Inter-SINE Amplified Polymorphism (ISAP) for rapid and robust plant genotyping. In: Batley J (eds). Plant Genotyping Methods in Molecular Biology, Humana Press, New York. DOI: 10.1007/978-1-4939-1966-6.
- Wicker, T., Sabot, F., Hua-van, A., Bennetzen, J. L., Capy, P., Chalhoub, B., Flavell, A., Leroy, P., Morgante, M., Panaud, O., Paux, E., Sanmiguel, P., & Schulman, A. H. (2007). A unified classification system for eukaryotic transposable elements. Genetics, 8, 973–982.
- Yanez-Santos, A.M, R.C Paz, P.B. Paz-Sepúlveda, J. D. Urdampilleta. 2021. Full-length LTR retroelements in *Capsicum annuum* revealed a few species-specific family bursts with insertional preferences. Chromosome Res 29:261–284. <https://doi.org/10.1007/s10577-021-09663-4>