

**DAFTAR PUSTAKA**

- Altschul SF, Gish W, Miller W, Myers EW, Lipman DJ, 1990. Basic alignment search tools. *J. Mol. Biol.* 215:403-410.
- Altschul SF, Madden TL, Schaffer AA, Zhang J, Zhang Z, Miller W, Lipman DJ, 1997. Gapped BLAST and PSI-BLAST: a new generation of protein database search programs. *Nucleic Acids Res.* 25(17):3389-3402.
- Arivani, S. 2010. Total Antosianin Ekstrak Buah Salam dan Korelasinya dengan Kapasitas Anti Peroksidasi pada Sistem Linoleat. *Agrointek*, 4 (2) : 121-127
- Anonim, 2019. Analisis Ketersediaan Pangan: Neraca Bahan Makanan Indonesia 2017-2019. Kementerian Pertanian. Jakarta. Hal: 30-55
- Balitkabi, 2020. *Hypoma1 dan Hypoma2 Varietas Unggul Baru Kacang Tanah* <http://balitkabi.litbang.pertanian.go.id/>. Diakses pada tanggal 1 November 2020, pukul 15.00 WIB.
- Bansal AK, Meyer TE, 2002. Evolutionary analysis by whole genome comparisons. *J. Bact.* 184(8):2260-2272.
- Bennetzen, J.L, 2000. Transposable Element Contribution to Plant Gene and Genome Evolution. *Plant Molecular Biology* 42: 251-269
- Bhat RS, Patil VU, Chandrashekhar TM, Sujay V, Gowda MVC, Kuruvinashetti MS, 2008. Recovering flanking sequence tags of miniature inverted-repeat transposable element by thermal asymmetric interlaced-PCR in peanut. *Curr Sci.* 95(4):452–3.
- Bie'mont C, Vieira C, 2006. Genetics: junk DNA as an evolutionary force. *Nature*. 443: 521Y524
- Bioline, 2020. MyTaq™ Extract-PCR K. <https://www.bioline.com/mytaq-extract-pcr-kit.html>. Diakses pada 30 November 2020, pukul 18.00 Wib.
- Bo'hne et al. 2008. Transposable elements as drivers of genomic and biological diversity in vertebrates. *Chromosome Research*. 1(16):203- 215
- Chukwumah, 2009. Peanut Skin Color: A Biomarker for Total Polyphenolic Content and Antioxidative Capacities of Peanut Cultivars. *Int. J. Mol. Sci.* 10 (1) , 4941-4952
- Chuong EB, Elde NC, Feschotte C (2017) Regulatory activities of transposable elements: from conflicts to benefits. *Nat Rev Genet.* 18 (1) :71–86
- Doolittle WF, Sapienza C. 1980. Selfish genes, the phenotype paradigm and genome evolution. *Nature* 284(1): 601–603
- Ethalinda K. S. Cannon, Steven B. Cannonl, 2011. Chromosome Visualization Tool: A Whole Genome Viewer, *International Journal of Plant Genomics*, (1) 11 :1-4
- Fakruddin, Mazumdar R, Chowdgury A, Hossain N, Mahajan S dan Islam S. 2013. Pyrosequencing a next generation sequencing technologi. *World Applied Sciences Journal*. 24(12): 155-1571
- Feschotte C, Pritham EJ, 2007. DNA transposons and the evolution of eukaryotic genomes. *Annu Rev Genet* 41: 331Y368.
- Franca LTC, Carrilho dan Kist T. 2002. A review of DNA sequencing techniques. *Quaterly Reviews of Biophysics*. 35: 169–200.



- Gantait S., Panigrahi J., Patel I.C., Labrooy C., Rathnakumar A.L., Yasin J.K, 2019. *Peanut (Arachis hypogaea L.) Breeding. Advances in Plant Breeding Strategies: Nut and Beverage Crops.* Springer, Cham. P : 121-124
- Gayathri, 2018. Development of AhMITE1 markers through genome-wide analysis in peanut (*Arachis hypogaea L.*) *BMC Research Note* 11(11) : 1-6
- Gowda VC, Bhat RS, Motagi BN, Sujay V, Varshakumari, Bhat S, 2010. Association of high-frequency origin of late leaf spot resistant mutants with AhMITE1 transposition in peanut. *Plant Breeding.* 129 (5) :567– 9.
- Gowda, M. V. C., Bhat, R. S., Sujay, V., Kusuma, P., Varshakumari, Bhat, S. and Varshney, R. K., 2011. Characterization of AhMITE1 transposition and its association with the mutational and evolutionary origin of botanical types in groundnut (*Arachis spp.*). *Plant Syst. Evol.*, 291(3): 153-158.
- Gowda, M. V. C., Nadaf, H. L. and Sheshagiri, R., 1996, The role of mutations in intraspecific differentiation of groundnut (*Arachis hypogaea L.*). *Euphytica*, 90(1): 105-113.
- Hirsch, Ann M. 1992. *Development Biology of Legume Nodulation.* Departement of Biologi, University of California : Los Angeles. P : 24 – 31.
- Hua-Van A, Le Rouzic A, Boutin TS, File  e J, Capy P. 2011. The struggle for life of the genome's selfish architects. *Biol Direct.* 6 (19) : 1-8
- IBPGR and ICRISAT. 1992. *Descriptors for groundnut. India: International Broard for Plant Genetic Resources, Rome, Italy.* International Crops Research Institute for the Semi-Arid Tropics, Patancheru. P : 311-315.
- Jin, X., Yue, S., Wells, K. S. and Singer, V. L. 1994. SYBR Green (TM)-I-A new fluorescent dye optimized for detection of picogram amounts of DNA in gels. *Biophysical Journal* 66 (2) : 59-69.
- Kass, L.B. 2014. *Perspective on Nobel Laureate Barbara McClintock Publications (1926-1984): A Companion Volume.* The Internet-First University Press, Ithaca, New York, pp. 568-704.
- Kayva, S. R. 2015. PCR Technique WITH Its Application. Research and Reveiew *Journal of Microbiology and Biotechnology.* 2 (6): 2320-3528
- Kazazian HH Jr (2004) Mobile elements: drivers of genome evolution. *Science* 303: 1626Y1632.
- Klein, 2018. Transposable elements: genome innovation, chromosome diversity, and centromere conflict. *Chromosome Res* 26 (1) :5–23.
- Kohler, H. A. 2007. *Kohler's Medizinal Pflanzen.* Germany. Missouri Botanical Garden. Pp : 81-85.
- Kryndushkin, D. S., Alexandrov, I. M., Ter-Avanesyan, M. D. and Kushnirov, V. V. 2003. Yeast prion aggregates are formed by small Sup35 polymers fragmented by Hsp10. *Journal of Biological Chemistry.* 278 (49): 49636.
- Li, W. 1997. *Molecular Evolution.* Sinauer Associates, Inc., Publishers, pp. 335-366
- Lipman DJ, Pearson WR (1985). Rapid and sensitive protein similarity searches. *Science*, 227:1435–1441
- Lisch, D., and Jiang, N. 2009. *Mutator and MULE transposons: Maize Handbook-Volume II: Genetics and Genomics.* Springer Science + Business Media LLC. pp. 277-306
- Luscombe NM, Greenbaum D, Gerstein M (2001). What is bioinformatics? A proposed definition and overview of the field. *Methods Inf. Med.*



40(4):346-358.

- Lopez, 2010. DNA Transposons: Nature and Applications in Genomics . *Current Genomics*, 11 (1): 115-128
- Maggioni, L., S. Giorgiev, and Lipman, 2003. Arachis genetic resources in Europe . European Cooperative Programme for Crop Genetic Resources Network s ECPGR. Ad hoc Meeting, 15–16 November 2002. Plovdiv, Bulgaria
- Mashudi, 2007. *Bercocok Tanan Kacang Tanah dan Manfaatnya*. Azka Press. Hal 1-15.
- Ministry of Agriculture, 2016. *Outlook Komoditas Pertanian Subsektor Tanaman Pangan*. Pusat Data dan Sistem Informasi Pertanian.. P ; 22-23
- Nayak SN, Hebbal V, Bharati P, Nadaf HL, Naidu GK and Bhat RS, 2020. Profiling of Nutraceuticals and Proximates in Peanut Genotypes Differing for Seed Coat Color and Seed Size. *Front. Nutr.* 7(1): 45 - 54
- Nielen S, Vidigal BS, Leal-Bertioli SC, Ratnaparkhe M, Paterson AH, Garsmeur O, D'Hont A, Guimaraes PM, Bertioli DJ. 2012. Matita, a new retroelement from peanut: characterization and evolutionary context in the light of the *Arachis* A-B genome divergence. *Molecular Genetics and Genomics* 287: 21–38
- Orgel LE, Crick FH. 1980. Selfish DNA: the ultimate parasite. *Nature* 284: 604–607.
- Panutebase, 2020. *Genetic and genomic data to enable more rapid crop improvement in peanut*.[www.peanutbase.org](http://www.peanutbase.org). Diakses pada 1 Desember 2020, pukul 18.00 Wib.
- Pattee, H. E., F. G. Giesbrecht, J. W. Dicknes, J. C. Wynne, J. H. Young, and R. W. Mozingo. 1982. The seed hull maturity index as an estimator of yield and value of Virginia-type peanut. *Peanut Sci.* 9:27–30.
- Pearson WR, Lipman DJ, 1988. Improved tools for biological sequence comparison. *Proc. Natl. Acad. Sci. USA* 85(8):2444-2448.
- Pemandungan, 2012. Prediksi Genotipe Tetua Jagung Berbulir Ungu Berdasarkan Kesesuaian Nisbah Harapan pada Bulir S1 Dan S2. *Eugenia* 18 (3) : 221-231
- Purnomo dan Asmarayani, R. 2004. Hubungan Kekerabatan Antar Spesies Piper Berdasarkan Sifat Morfologi dan Minyak Atsiri Daun di Yogyakarta. *Biodiversitas* 6 (1) : 12-16.
- Purnomo, 2019. Variations and Phenetic Analysis of Peanut Cultivars (*Arachis hypogaea L.*) Based on Morphological Characteristics. *J. Trop. Biodiv. Biotech* (4) 1 : 24-31
- Rabbani, 2015. Karakterisasi Molekular dan Hubungan Kekerabatan Melon (*Cucumis melo L.*) 'Hikadi' berdasarkan Gen *Cucumis Mutator-like Transposable Element*. Skripsi. Universitas Gadjah Mada, Yogyakarta. Hal : 17-20.
- Rosyidi and Daryono, 2020. Phenotypic characters and genetic variations of lurik peanuts (*Arachis hypogaea L.* var. *lurikensis*) with Inter Simple Sequence Repeat. *Biodiversitas* 21(2) : 629-635
- Sambrook, J. and Russell, D. W. 2001. *Molecular Cloning : A Laboratory Manual 2<sup>nd</sup> Edition*. Cold Spring Harbor Laboratory Press. New York. Pp : 76-80.
- Sambrook, J., Fritsch, E. F., and Maniatis, T. 1982. *Molecular Cloning : A laboratory Manual..* Cold Spring Harbor Laboratory Press. USA. P. 45.



- Sampebarra, 2018. Karakteristik Zat Warna Antosianin dari Biji Kakao Non Fermentasi sebagai Sumber Zat Warna Alam. *Jurnal Industri Hasil Perkebunan*. 13 (1) : 63-70.
- Sanger, F., S. Nicklen, and A.R. Coulson. 1997. DNA sequencing with chain-terminating inhibitors. *Proc. Nat. Acad. Sci. USA* 74: 5463–5467. doi:10.1073/pnas.74.12.5463
- Sanseverino W, Hénaff E, Vives C, Pinosio S, Burgos-Paz W, Morgante M, Ramos-Onsins SE, Garcia-Mas J, Casacuberta JM, 2015. Transposon insertions, structural variations, and SNPs contribute to the evolution of the melon genome. *Mol Biol Evol* 32(10):2760–2774.
- Sharp P. A., Sugden, B. and Sambrook, J, 1973. Detection of two restriction endonuclease activities in *Haemophilus parainfluenzae* using analytical agarose-ethidium bromide electrophoresis. *Biochemistry*. 12 : 3055-3063.
- Shirasawa K, Bertioli DJ, Varshney RK, Moretzsohn MC, Leal-Bertioli SC, Thudi, 2013. Integrated consensus map of cultivated peanut and wild relatives reveals structures of the A and B genomes of *Arachis* and divergence of the legume genomes. *DNA Res.* 20(2):173–84.
- Sing, et al. 2011. *Role Of Bioinformatics In Agriculture And Sustainable Development*. Banaras Hindu University, India.
- Singh, R. J. 1999. *Plant Systematic*. Science Publisher, Inc. New York. p. 78.
- Sjafaraenan, 2018. Profil Dna Gen Follicle Stimulating Hormone Reseptor (Fshr) Bioma : *Jurnal Biologi Makassar*, 3 (1) : 1-11.
- Smartt, J. 1961. Groundnut Varieties of Northern Rhodesia and Their Classification. *Empire Journal of Experimental Agriculture*. 29 : 153-158.
- Tornqvist, C.E. 2006. *Plant Genetics*. Chelsea House Publisher. New York. P. 34.
- Trustinah. 2015. *Morfologi dan Pertumbuhan Kacang Tanah*. Balai Penelitian Tanaman Aneka Kacang dan Umbi : Malang. Hal : 7- 35.
- Uaeda, E., H. Daimon & F. Yoshizako. 2001. Colonization and Invasion of Peanut (*Arachis hypogaea L.*) roots by gus-A marked *Bradyrhizobium* ssp. Can. *J.Bot.* 79: 733-738
- Valonez, M. A. A., Guimaraes, R. L., Brando, L. A. C., Carvalho, A-de-A.T., and Crovela, S. 2009. Principles and Applicatons of Polymerase Microbiolog y. *Cytologia* 40(1) : 1-11.
- Venkatesh, A.G. Vijaykumar, B.N. Motagi and Bhat, R.S. 2019. Single Marker Analysis Using Transposon Specific Markers (AhMITE1) for Yield, Foliar Disease Resistance and Oil Quality in a Mutant Population of Groundnut (*Arachis hypogaea L.*). *Int.J.Curr.Microbiol.App.Sci.* 8(03): 2376-2385
- Yuwono, T. 2006. *Teori dan Aplikasi Polymerase Chain Reaction*. Penerbit Andi. Yogyakarta. Hal. 60.