

## DAFTAR PUSTAKA

- Ahmed, O.B., A.Asghar and M.M. El hassan. 2014. Comparison of three DNA extraction methods for polymerase chain reaction (PCR) analysis of bacterial genomic DNA. *African journal of microbiology research*. **8** (6) : 598-602
- Aristya, G.R., A.Agriansyah and B.S.Daryono. 2013. Deteksi dan skrining pewarisan sifat ketahanan penyakit *powdery mildew* pada generasi *backcross* tanaman melon (*Cucumis melo* L.) var. Tacapa. *Repository UGM* : 294 – 300
- Artschwager, E and E.W. Brandes. 1958. *Sugarcane (Saccharum officinarum L.) : Origin, Classification, Characteristic and Description of Representative Clones*. Agriculture Handbook. USDA.
- Asy'ari, M dan A.S.Noer. 2005. Optimasi Konsentrasi MgCl<sub>2</sub> dan suhu annealing pada proses amplifikasi multifragments mtDNA dengan metoda PCR. *Jurnal Kimia Sains dan Aplikasinya*. Vol. **VIII** (1) : 23-2007.
- Babu, C.N. 1990. *Sugarcane*. Allied Publisher Limited. Bombay ; pp 38 – 39.
- Bakker, M. 1999. *Sugarcane cultivation and management*. Kluwer Academic/Plenum Publisher. New York
- Barthet, M.M. 2006. Expression and function of the chloroplast encoded gene *matK*. *Virginia Polytechnic Institute and State University*. Blacksburg.
- Bettelheim and Ladesberg. 2007. Laboratory experiments for general organic and biochemistry.
- Cheng, Y.J., Guo,W.W., Yi,H.L.,Pang, X.M., and Deng, X. 2003. An efficient protocol for genomic DNA extraction from *Citrus* species. *Plant Molecular Biology Reporter*. **21** : 177a – 177g
- Clark, D.P and N.J. Pazdernik. 2013. *Molecular Biology* . Second Edition. Elsevier. Oxford
- Cleeg, M.T. and Zurawski, G. 1992. Chloroplast DNA and the study of plant phylogeny. New York, In : Soltis, P.S., Soltis,D.E., and Doyle, J.J., (eds), *Present status and future prospect in Molecular Systematics of Plant*. Chapman and Hall, pp 1-13
- Coenoud, P., Savolainen, V., Chatrou, L.W., Powell, M., Grayer, R.J., and Chase, M.W. 2002. Molecular phylogenetic of Caryophyllales based on nuclear 18S rDNA and plastid *rbcL*, *atpB* and *matK* DNA sequences. *American Journal of Botany*. **89** : 132 -144
- Dharmayanti, N.L.P.I. 2011. Filogenetika molekuler : metode taksonomi organisme berdasarkan sejarah evolusi. *Wartazoa*. Vol. **21** (1) : 1-10
- Eck, R.V.and M.O.Dayhoff. 1966. Evolution of the structure of Ferredoxin based on the living Relics of primitive amino acid sequences. *Science*. **152** (3720) : 363 – 366
- Ehtisham, M., F. Wani., I.Wani., P.Kaur and S. Nissar. 2016. Polymerase Chain Reaction (PCR) : Back to basics. *Indian Journal of Contemporary Dentistry*. **4** (2) : 30-35

- Enan, M.R. and S.Ahmed. 2014. DNA barcoding based on plastid *matK* and RNA polymerase for assessing the genetic identity of date (*Phoenix dactylifera* L.) cultivars. *Genetics and Molecular Research*, **13** (2) : 3527-3536
- Fazekas, A.J., Burgess, K.S. Kesanakurti, P.R., Graham, S.W., Newmaster, S.G., Husband, B.C., Percy, D.M. Hajibabei, M., and Barret, S.C.H. 2008. Multiple locus DNA barcodes from the plastid genome discriminate plant species equally well. *Plos One*. **3** : 3802
- Feng, D.F and R.F. Doolittle. 1996. Progressive alignment of amino acid sequences and construction of phylogenetics trees from them. *Methods Enzymol*. **266** : 368-382
- Garibyan, L. and N. Avashia. 2013. Research technique made simple : Polymerase Chain Reaction (PCR). *Journal Investigative Dermatology*. **133** (3) : 1-4
- Green MR, Sambrook J. 2012. *Molecular Cloning: A Laboratory Manual*. 4th ed. Cold Spring Harbor Laboratory Press. New York
- Gregory, T.R. 2008. Understanding evolutionary trees. *Evo Edu Outreach*. **1** : 121 – 137
- Grivet, L and Arruda, P. 2002. Sugarcane genomics : depicting the complex genome of an important tropical crop. *Curr Opin Plant Biol*. Vol. **5** :122 – 127
- Handoyo, D dan Ari, R. 2000. Prinsip Umum dan Pelaksanaan Polymerase Chain Reaction (PCR). *Unitas*. Vol **9** (1) : 18
- Heather, J.M. and B.Chain. 2016. The sequence of sequencers : the history of sequencing DNA. *Genomics*. **107** (1) : 1-8
- Hebert, P.D.N., Cywinska, A., Ball, S.L., deWaard, J.R. 2003. Biological identifications through DNA barcodes. *Proceedings of the Royal Society of London B*, **270**: 313-321.
- Heckenhauer, J., M.H.J.Barfuss and R.Samuel. 2016. Universal multiplexable *matK* primers for DNA barcodings of angiosperm. *Applications in Plant Science*. **4** (6) : 1500137
- Hilu K.W. and Alice, L.A. 1999. Evolutionary implications of *matK* indels in s 3.10. diakses melalui <https://mesquiteproject.org> pada Senin, 18 Juni 2018
- Hongbao, Ma. 2005. Development application of Polymerase Chain Reaction (PCR). *The Journal of American Science*. **1** (3) : 1-47
- Huan, H.V., H.M.Trang and N.V.Toan. 2018. Identification of DNA barcode sequence and genetic relationship among some species of Magnolia family. *Asian Journal of Plant Science*. **17** (1) : 56-64
- Ishino, S and Y. Ishino. 2014. DNA polymerase as useful reagents for biotechnology - the history of developmental research in the field. *Front Microbiol*. **5** : 465
- Jackson, P.A. 2005. Breeding for improved sugar content in sugarcane. *Field Crop Research*. **92** : 277 -290
- James, G. 2004. *Sugarcane*. Second Edition. Blackwell Publishing. Oxford, p. 15
- Jethra, G., Mishra, A.K., Pandey, P.S., S. Choudhary and Chandrasekharan, H. 2014. Phylogenetic and structural scrutiny of *matK* gene from wheat representing Poaceae family for DNA barcoding. *International Journal of Science and Nature*. **5**. (1) : 141-146

- Joshi, M and Deshpande, J.D. 2011. Polymerase Chain Reaction : Methods, Principles and Application. *International Journal of Biomedical Research*. **1** (5) : 81-97
- Kamaliah. 2017. Perbandingan metode ekstraksi DNA *Phenol-Chloroform* dan *Kit Extraction* pada sapi aceh dan sapi madura. *Journal Biotik*. **5** (1) : 60-65
- Kaur, S., H.S.Sohal and R.S.Cheema. 2013. Implementing UPGMA and NJ method for phylogenetic tree construction using hierarchical clustering. *International Journal of Computer Science and Technology*. Vol. **4** (2) : 303 - 310
- Khare, P., V.Raj, S.Chandra and S.Agarwal. 2014. Quantitative and qualitative assessment of DNA extracted from saliva for its use in forensic identification. *Journal of Forensic dental Science*. **6** (2) : 81-85
- Khosravinia, H and Ramesha, K.P. 2007. Influence of EDTA and magnesium on DNA extraction from blood samples and specificity of polymerase chain reaction. *African Journal of Biotechnology*. **6** (3) : 184-187
- Kryndushkin, D.S., Alexandrow IM, Ter-Avanesyan MD and Kushnirov VV. 2003. Yeast [PSI<sup>+</sup>] prion aggregates are formed by small Sup35 polymers fragmented by Hsp104. *Journal of Biological Chemistry*. **278** (49) : 49636
- Kumar, S., G.Stecher, Li M, Knyaz C and Tamura K. 2018. MEGA X : Molecular evolutionary genetics analysis across computing platforms. *Molecular Biology and Evolution*. Vol. **35** (6) : 1547-1549
- Lai E, Birren BW, Clark SM, Simon MI, Hood L. 1989. Pulsed field gel electrophoresis. *Biotechniques*. **7** : 34-42
- Lakshmanan, P., R.J.Geijskes, K.S.Aitken, C.L.P Groff, G.D.Bonnett and G.D.Smith. 2005. Sugarcane biotechnology : The challenges and opportunities. *In Vitro Cell. Dev.Biol. Plant*. **41** : 345-363
- Lee, P.Y., J.Costumbrado, C.Y Hsu and Y.H.Kim. 2012. Agarosa Gel Electrophoresis for the separation of DNA fragments. *Journal of Visualized Experiments*. **62** : 3923
- Librado, P. and Rozas, J. 2009. DnaSP v5: A software for comprehensive analysis of DNA polymorphism data. *Bioinformatics*, **25**: 1451-1452.
- Lorenz, T.C. 2012. Polymerase Chain Reaction: Basic Protocol Plus Troubleshooting and Optimization Strategies. *Journal of Visualized Experiments*. **63** : 3998.
- Maddison, W.P and Maddison. 2016. *Mesquite : a modular system for evolutionary analysis*. Versin 3.10. diakses melalui <http://mesquiteproject.org> pada Sabtu, 24 Maret 2018
- Maddocks, Sarah and R. Jenkins. 2017. *Understanding PCR*. Academic press. Oxford, p. 1
- Maftuchah., A.Winaya dan A.Zainudin. 2014. *Teknik Dasar Analisis Biologi Molekuler*. Deepublish. Yogyakarta, hal 50.
- Maranan, F.S. and M.G.Q. Diaz. 2013. Molecular diversity and DNA barcode identification of selected Philippine endemic hoyo Species (Apocynaceae). *Philip Agric Scientist*. Vol **96** (1) : 86 -92

- Ming, R., Liu, S.C., Lin, Y.R. and da Silva. 1998. Detailed alignment of *Saccharum* and *Sorgum* chromosomes : comparative organization of closely related diploid and polyploid genomes. *Genetics*. **150** : 1663 -1682
- Moore, P.H. and F.C. Botha. 2013. *Sugarcane : Physiology, Biochemistry and Functional Biology*. Wiley Blackwell. New York
- Mount, D.W. 2001. *Phylogenetic prediction : Bioinformatic, Sequence and Genom Analysis*. New York Press. New York ; pp 237 – 240
- Nei, M. 2001. *Encyclopedia of Genetics : Genetic Distance*. Academic Press. Cambridge; pp 830-831.
- Nei, M. and Kumar, S. 2000. *Molecular Evolution and Phylogenetics*. Oxford University Press. Oxford
- Nei, M. 1972. Genetic Distance between Populations. *The American Naturalist*. Vol. **106** (949) : 283-292
- Nerkar, G., F.J.Farsangi and R. Devarumanth. 2015. Organellar genome diversity in *Saccharum* and *Erianthus* spp. revealed by PCR-RFLP. *Molecular plant breeding*. Vol. **6** (11) : 1-11
- Ningsih, H.U., T.B.P.Ptakarsa dan E.T.Margawati. 2017. Koleksi DNA dan konfirmasi marka *ETH10* pengkode sifat pertumbuhan pada sapi Pasundan. *Biotropic*. 1 (1) : 18-25
- Nugroho, E.D. dan D.A.Rahayu. 2014. *Pengantar Bioteknologi (Teori dan Aplikasi)*. Deepublish. Yogyakarta, hal 77
- Obge, R.J., D.O. Ochalefu and O.B.Olaniru. 2015. Bioinformatics advances in genomeics – a review. *Journal Impact Factor*. Vol. **8** (10)
- Oxtoby, D.W., H.P.Gillis and N.H.Nachtrieb. 2001. *Prinsip-prinsip kimia modern*. Edisi Keempat. Jilid I. Erlangga. Jakarta ; hal 310
- Pertiwi, N.P.D., I.G.N.K Mahardika dan N.L.Watiniasih. 2015. Optimasi amplifikasi DNA menggunakan metode PCR (*Polymerase chain reaction*) pada ikan karang anggota famili Pseudochromidae (Dottyback) untuk identifikasi spesies secara molekuler. *Jurnal Biologi*. **19** (2) : 1-5
- Prana, T.K. dan Hartati, S.N. 2003. Identifikasi sidik jari DNA talas (*Colocasia esculenta* L. Schott) Indonesia dengan teknik RAPD : skrining primer dan optimalisasi kondisi PCR. *Jurnal Natur Indonesia*. **5** (2) : 107-112
- Premachandran, M.N., P.T. Prathima and M.Lekshmi. 2011. Sugarcane and polyploidy – a review. *Journal of Sugarcane Research*. **1** (2) : 1-15
- Pusat Penelitian Perkebunan Gula Indonesia. 2018. <https://www.p3gi.co.id/kultivar/tebu> diakses pada 17 April 2018
- Pusat Penelitian Perkebunan Gula Indonesia. 2019. <https://www.p3gi.co.id/sejarah/kultivar/tebu> diakses pada 16 Maret 2019
- Puspitaningrum, R.,C.Adhiyanto dan Solihin. 2018. *Genetika Molekuler dan Aplikasinya*. Deepublish. Yogyakarta, hal 10-11
- Rhee, Seung Yon, J. Dickerson and D. Xu. 2006. Bioinformatics an its application in plant biology. *Annual Rev. Plant Biol*. **57** : 335 – 360
- Ricaud, C., B.T. Egan, A.G. Gillaspie and C.G. Hughes. 1989. *Disease of sugarcane : major disease*. Elsevier. Netherlands ; pp 2-3
- Roarch, B.T. 1989. Origin and improvement of the genetics base of sugarcane. In “*Proceedings of Australian Society of Sugarcane Technologist*. **1**.
- Saeys, Y., I.Inza and P.Larranaga. 2007. A review of feature selection techniques in bioinformatics. *Bioinformatics*. **23** (19) : 2507-2517

- Saiki, R.K., S.Scharf, F.Faloona, K.B.Mullis and G.T.Horn. 1985. Enzymatic amplification of  $\beta$ -globin genomic sequences and restriction site analysis for diagnosis of sickle cell anemia. *Science*. **239** : 1350-1354.
- Sambrook, J. and D.W.Russel. 1989. *Molecular cloning : A Laboratory Manual*. Cold Spring Harbor Laboratory Press. New York
- Sanger, F., G.M Air, B.G. Barrel, N.L.. Brown, A.R. Coulson, C.A.Fiddes, C.A.Hutchison, P.M. Scolombe and M.Smith. 1997. Nucleotide sequence of bacteriophage phiX174 DNA. *Nature*. **265** (5596) : 687 – 695
- Sekarindah. 2006. Jus Buah & Sayur. PT. Gramedia Pustaka Utama. Jakarta.
- Sharma, V., A. Munjal and A.Shanker. 2008. *A text book of bioinformatics*. Rastogi Publication. India ; p. 1
- Siar, S., del Rosario E., and Carandang, J. 2007. Corona and pollinarium diversity in Philipphine Hoya. *Asia Life Sci*. **16** (2) : 195 – 208
- Skuza, L., I.Szucko, E.Filip and A.Adamczyk. 2019. DNA barcoding in selected spesiec and subspecies of rye (*Secale*) using three chloroplast loci (*matK*, *rbcL*, *trnH-psbA*). *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 47(1) : 54-62
- Soltis, D.E., P.Soltis and J.J. Doyle. 1998. *Molecular systematic of plants II : DNA sequencing*. Kluwer Academic Publisher. USA, pp 10-12
- Staton, J.L. 2015. Understanding phylogenies : constructing and interpreting phylogenies trees. *Journal od South Carolina Academy of Science*. Vol. **13** (1) : 24-29
- Subdirektorat Statistik Tanaman Perkebunan. 2017. *Statistik Tebu Indonesia*. BPS RI. Jakarta.
- Surzycki, Stefan. 2000. *Basic Techniques in Molecular Biology*. Springer – Verlag
- Syafaruddin, E.Randriani dan T.J.Santoso. 2011. Efektibitas dan efisiesi teknik isolasi dan purifikasi DNA pada jambu mete. *Buletin RISTRI*. **2** (2) : 151 – 160.
- Taberlet, P., Gielly, L., Patutuo, G., and Bouvet, J. 1991. Universal *primer* for amplification of three non-coding regiois of chloroplast DNA. *Plant Vio Mol*. **17** : 1105 -1109
- Tai, P.Y.P., Miller, J.D. 2001. A core collection for *Saccharum spontaneum* L. from the world collection of Sugarcane. *Crop Science Society of America*. **41** : 879 -885
- Tallei, T.E., Rembet, R.E., Pelealu, J.J. and Kolondam, B.J. 2016. Sequence Variation and Phylogenetic Analysis of *Sansevieria trifasciata* (Asparagaceae). *Bioscience Research*. **13** (1) : 01-07
- Tjitrosoepomo, H. 2000. *Morfologi tumbuhan*. Gadjah Mada University Press. Yogyakarta
- Trivedi, S., A.A.Ansari, A.K.Ghosh and H. Rehman. 2016. *DNA barcoding in marine perspective : assesment and conservation of biodiversity*. Springer. Switzerland ; p. 161
- Wang Y-L., Li Y, Zhang S-Z and Yu X-S. 2006. The utility of *matK* gene in the phylogenetic analysis of the genus *Magnolia*. *Acta Phytotaxonomica Sinica*. **44** : 135 -147
- Weising, K. and Gardner, R.C. 1999. A set of conserved PCR *primers* for the analysis of single sequence repeat polymorphism in chloroplast genome of cotyledonous angiosperm. *Genom* : 9-19



- Yang, L., Tan, Z., Wang, D., Xue, L., Guan, M., Huang, T. and Li, R. 2014. Species identification through mitochondrial rRNA genetic analysis. *Scientific Reports*. **4**: 4089
- Yu, Jing., J-H Xue and S-H Zhou. 2011. New universal *matK* primers for DNA barcoding angiosperms. *Journal of Systematics and Evolution*. **49** (3) : 176 – 181
- Yusuf, K.Z. 2010. Polymerase Chain Reaction (PCR). *Saintek*. Vol **5**. (6)
- Yuwono, T. 2009. *Biologi molekuler*. Penerbit Erlangga. Jakarta, hal 39.
- Yuwono, S.S. and E.Waziroh. 2017. *Teknologi Pangan Hasil Perkebunan*. UB Press. Malang ; hal 79 - 80
- Zein, M.S.A dan D.M.Prawiradilaga. 2013. *DNA Barcode Fauna Indonesia*. Kencana. Jakarta, hal 104-106.