

## DAFTAR PUSTAKA

- Arif, I.A., Khan, H.A., Shobrak, M., Al Homaidan, A.A., Al Farhan, A.H., and Al Sadoon, M. 2010. Measuring the genetic diversity of Arabian Oryx using microsatellite markers: implication for captive breeding. *Gene. Genet. Syst.* 85: 141–145.
- Aksornkoae, Sanit. 1993. *Ecology and management of Bakau*. The IUCN Wetlands Programme. Bangkok. Thailand.
- Bengen DG. 2001. *Sinopsis Ekosistem dan Sumberdaya Alam Pesisir dan Laut*. Pusat Kajian Sumberdaya Pesisir dan Lautan. Institut Pertanian Bogor. Bogor
- Barbour, M.G., J.H. Burk, and W.D. Pitts. 1980. *Terrestrial Plant Ecology*. The Benjamin/Cummings Publishing Company, Inc., Menlo Park, California.
- Bani, P.W., Daryono, B.S., dan Purnomo. 2017. Penanda Molekuler Inter Simple Sequence Repeat untuk Menentukan Ketahanan Tanaman Jagung terhadap Penyakit Bulai. *Jurnal Fitopatologi*. 13 (4): 127-135
- Bhartaya, A., J.P. Aditya, G. Singh, A. Gupta, P.K. Agarwal, J.C. Bhat. 2011. Assesment of genetic diversity in indigenous and exotic collections of black soybean (*Glycine max* (L.) Merrill). *SABRAO J. Breed. Genet.* 43:81-90.
- Bro, R., & Smilde, A. K. (2014). Principal component analysis. *Anal. Methods*, 6 (9):2812–2831.
- Campbell, Reece-Mitchell. 2002. *Biologi 5<sup>th</sup> Edition*. Jakarta: Erlangga
- Dahuri, R., J. Rais., S. P. Ginting dan Sitepu, M. J. 1996. Pengelolaan Sumber Daya Wilayah Pesisir dan Lautan Secara Terpadu. *Info Teknis Industri*. PT. Pradnya Paramita. Jakarta.
- Dasgupta, Nirjhar., Nandy, Paramita., Sengupta, Chandan., and Das Sauren. 2017. Genetic Variation in relation to adaptability of three bakau species from the Indian Sundarbans assessed with RAPD and ISSR markers. *Northeast Forestry University and Springer*. Germany.
- Duke, N.C., Benzie, K.A.H., Goodall, J.A. and Ballment, E.R., 1998. Genetic structure and evolution of species in the bakau genus *Avicennia* (Avicenniaceae) in the Indo- West Pacific. *Evol.* 52:1612-1626.
- Dwari S, and Mondal AK. 2011. Systematic studies (morphology, anatomy and palynology) of economically viable grass *Brachiaria mutica* (Forsskål) Stapf in Eastern India. *Afr J. Plant Sci.* 5: 296–304.
- Giesen, Wim., Wulffraat, Stephan., Zieren, Max., Scholten, Liesbeth. 2007. *Mangrove Guide Book For Southeast Asia*. Wetlands International, Netherlands.

Halidah. 2014. *Avicennia marina* (Forssk.) Vierh Jenis Bakau yang Kaya Manfaat. *Info Teknis EBONI*. 11(1): 1-12

Judd, W. S., Campbell, C. S., Kellogg, E.A and Stevens, P. F. 1999. *Plant Systematic*. Sunderland, MA Sinauer Association, Inc USA.

Kenish, M.J. 1990. *Ekologi of Estuaries*. Volume II: Biological Aspects. CRC Press Inc. Boca Raton Flodida

Kovach, W.L 2007. *MVSP A Multivariate Statical Package. 3.1*. Kovach Computing Service, Wales.

Kader, A., Sinha, S.N., and Ghosh, P. 2012. Evaluation of genetic diversity of Avicenniaceae family in Indian sundarban by using RAPD and ISSR markers. *Iranian Journal*. 1(2): 22-27

Mattjik, A.A., I.M. Sumertajaya. 2011. *Sidik ragam peubah ganda dengan menggunakan SAS*. Bogor (ID): Institut Pertanian Bogor.

Maguire, T.L., Saenger, P., Baverstock, P., and Henry, R. 2000. Microsatellite analysis of genetic structure in the bakau species *Avicennia marina* (Forsk) Vierh. (Avicenniaceae). *Mol. Ecol.* 9 (11):1853-1862

Marri, P.R., Sarla., and Siddiq, EA. 2002. Inter simple sequence repeat (ISSR) polymorphism and its application in plant breeding. *Euphytica*. 128: 9-17

Maxisella, Y., D. Ruswandi, A. Karuniawan. 2008. Penampilan fenotifik, variabilitas dan hubungan kekeragaman 39 genotip genus Vigna dan Phaseolus berdasarkan sifat morfologi dan komponen hasil. *Zuriat* 19 (2):179-196.

Mishina, K., H. Sato, A. Manickavelu, H. Sassa, T. Koba. 2009. Moleculer mapping of SKr for crossability in common wheat. *J. Breed. Sci.* 59:679-684.

Oktavianingsih, L., Suharyanto, E., Daryono, B.S., and Purnomo. 2019. Morphological Characters Variability of Taro (*Colocasia spp.*) in Kalimantan, Indonesia based on Phenetic Analysis Approach. *SABRAO Journal. Breed. Genet.* 44 (2): 277–291.

Onrizal. Barus., dan Alexander, T. 2010. Ekologi Dan Manajemen Komunitas Rawa Nipah Di Sumatera Utara. *LPPM USU*. Medan

Pimanda, D., Sumantri, H., Kadarisma, R., Imansyah, T., Prasetyo, R.B. 2016. Panduan Lapangan Pengenalan Jenis Bakau di Kawasan Taman Nasional Sembilang, Sumatra Selatan. *BIOCLIME*. 1: 1-36.



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Purnomo., Daryono, B.S., and Shiwachi. 2017. Phylogenetic Relationship of Indonesian Water Yam (*Dioscorea alata* L.) Cultivars Based on DNA Marker Using ITS-rDNA Analysis. *Journal of Agricultural Science*; 9 (2): 154-161.

Purnomo., Daryono, B.S., Rugayah., Sumardi, I and Shiwachi, Hironobu. 2016. Genetic Variability and Classification of Indonesian Yams (*Dioscorea Spp*) based On RAPD Analysis. *SABRAO Journal. Breed. Genet.* 48 (4): 377–390.

Prihadi, D. J., Riyantini, I., Ismail, M. R. 2018. Pengelolaan Kondisi Ekosistem Bakau dan Daya Dukung Lingkungan Kawasan Wisata Bahari Bakau Di Karangsong Indramayu. Department Ilmu Kelautan Fakultas Perikanan dan Ilmu Kelautan Universitas Padjadjaran. Bandung.

Ratini., Budiarti, Tati., and Sulistyantara, Bambang. 2016. Perencanaan Konservasi Ekosistem Bakau Desa Ujung Alang Kecamatan Kampung Laut Kabupaten Cilacap. *Jurnal Silvikultur Tropika*. 7 (2):108-114.

Recee, D. and Haribabu, E. 2007. Genes to feed the world: The weakest link. *Food policy*. 32: 459-479.

Rinto., Purwoningsih., Sri, Jacoeb., dan M, Agus. 2011. Anatomi, Komponen Bioaktif dan Aktivitas Antioksidan Daun Bakau Api-api (*Avicennia Marina*). *Jurnal Pengolahan Hasil Perikanan Indonesia*. 14 (2):143-152.

Said, Wafaa M. and Ehsan, Nahla O. M. 2010. Morphological and Molecular Evidences Among Four Heteroforms of *Avicennia marina* (Forssk) Vierh. *Journal of American Science*. 6 (11): 110-119.

Sakpere, A. M. A. 2011. Identification of ISSR primers for genetic analysis of *telfairia occidentalis* hook f. *Ife Journal of Science*. 13 (1): 129-131

Salas-Leiva, D.A., Mayor-Dura'n, V.M., and Toro-Perea, N., 2009. Genetic diversity of the black bakau (*Avicennia germinans* L.) in Colombia. *Aquatic Journals*. 91:187–193

Sambrook, J., Fritschi, E.F., and Maniatis, T. 1989. *Molecular Cloning: A Laboratory Manual*. Cold Spring Harbor Laboratory Press, New York.

Saparinto.C. 2007. *Pendayagunaan Ekosistem Bakau*. Penerbit Dahara Prize, Semarang.

Sari, Novita., Purnomo., Daryono, B.S., and Suryadiantina. 2018. Variability And Intraspecific Classification Of Indonesian Edible Canna (*Canna Indica* L.) Based On RAPD Marker Analysis. *SABRAO Journal. Breed. Genet.* 50 (2): 156-167.

Sobir., and Syukur, Muhammad. 2015. *Genetika Tanaman*. Bogor: IPB press.



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Sokal, R.R., and Sneath, P.H. 1963. *Principles of Numerical Taxonomy*. W.H. Freeman Company: USA

Son, J.H., Park, K.C., Lee, S., Kim, J.H. 2012. Species Relationship among Allium Species by ISSR analysis. *Hort. Environ. Biotechnol.* 53: 256-262

Spalding, M., Kainuma, M., and Collins, L., 2010. *World Atlas of Bakaus*. Earthscan. London

Surya, S., and Hari, N. 2017. DNA barcoding as a means for identifying bakau plants of Kerala. *International Journal of Academic Research and Development*. 2(4): 645-648

Susandarini, Ratna. 2014. *Biosistematika Pamelo (Citrus maxima (Burm.) Merr.) di Indonesia berdasarkan kajian Morfologis, Fitokimia dan Molekuler*. Disertasi. Fakultas Biologi. Universitas Gadjah Mada. Yogyakarta.

Syafaruddin., Randriani, Enny., Santoso, Tri Joko. 2011. Efektivitas dan Efisiensi Teknik Isolasi dan Purifikasi DNA pada Jambu Mete. *RISTRI BALITTRI*. 2 (2): 11-20.

Tomlinson. 1986. *The Botany of Bakau*. Cambridge University: New York Press.

Tjitrosoepomo, Gembong. 2009. *Morfologi Tumbuhan*. Yogyakarta: Gadjah Mada University Press.

Undang, Syukur, Muhamad, Sobir. 2015. Identifikasi Spesies Cabai Rawit (*Capsicum spp.*) Berdasarkan Daya Silang dan Karakter Morfologi. *J. Agron. Indonesia* 43 (2) : 118 – 125.

Urbaniak, J., Kwiatkowski, P., and Kozak, B. 2019. Genetic differentiation of *Allium sibiricum* L. Population in Poland based on their morphological and molecular markers. *Acta Soc Bot Pol.* 88 (1): 1-13

Valdemar, PC., Paulo, MR., Claudete, FR., Josue, MF., and Rosangela. 2002. Assesment of genetic diversity in maize (*Zea mays* L.) landraces using inter simple sequence repeat (ISSR) markes. *Crop Breed App. Biotech.* 2 (4): 557–568.

Yunianti, R., S. Sastrosumarjo, S. Sujiprihati, M. Surahman, S.H. Hidayat. 2007. Ketahanan 22 genotipe cabai (*Capsicum spp.*) terhadap Phytophthora capsici Leonian dan keragaman genetiknya. *Bul. Agron.* 35:103-111.