DAFTAR PUSTAKA

Abdurachman A & Anny M (2003) Pemanfaatan lahan berpotensi untuk pengambangan produksi kelapa. http://pustaka.litbang.pertanian.go.id/publikasi/p3221034.pdf Di akses pada 4 April 2016

Adiputra N & Wardi I (2005) Kelapa dalam budaya Bali serta upaya pelestariannya. *Jurnal Bumi Lestari* 15 : 87 – 91

Adkins SW, Rillo E & Orense O (2008) Final report Development of an embryo culture manual and an embryo transplantation technique for coconut germplasm movement and seedling production of elite coconut types. Canberra : *Australian Centre for International Agricultural Reseach* 34 864 955 427.

Al- Bahrany AM & Al- Khayari (2012) Optimizing in vitro cryopreservation of date palm (*Phoenix dactilyfera* L.). *Biotecnology* 11 : 59 – 66

Anonim (2010) Roadmap industri pengolahan kelapa. Direktorat Jendral Industri Agro Kementrian Perindustrian : Jakarta

Antony JJJ, Burkhan H, Sinniah UR, Poobathy R & Subramanian S (2013) Effect of PVS2 vitrification on *Brassidium* shooting star orchid using protocorm-like bodies. *Australian Journal Crops Science* 8 : 1078 – 1084

Assy-Bah B & Engelmann F (1992) Cryopreservation of mature embryos of coconut (*Cocos nucifera* L.) and subsequent regeneration of plantlets. *CryoLetters* 13:117-126.

Assy-Bah B & Engelmann F (1993) Medium-term conservation of mature embryos of coconut. *Plant Cell Tissue and Organ Culture* 33:19-24.

Bajaj YPS (1984) Induction of growth in frozen embryos of coconut and ovules of citrus. *Current Science* 53:1215-1216.

Bandupriya HDD, Ferdanol SC, Verdel J-L & Malaurie B (2010) Cryopreservation of encapsulated plumules of coconut: effect of transport/store conditions. *Asia-Pasific Journal of Molecular Biology and Biotechnology* 18 :135-137

Batugal P & Rao R (2005) Global coconut conservation strategy Dalam : Batugal P, Ramanatha RV, Oliver J (eds) *Coconut Genetic Resources*. Serdang, Selangor DE, Malaysia : International Plant Genetic Resources Institute-Regional Office for Asia, the Pacific and Oceania (IPGRI-APO) h 190 - 205

Billah T (2014) *Outlook komoditi kelapa. Pusat data dan sistem informasi pertanian.* Jakarta: Sekretariat Jendral Kementrian Pertanian

Bourdeix R (2012) List of the 419 coconut cultivars registered in the coconut genetic resources database as of april 2012 (ranked by names of cultivars). The International Coconut Genetic Resources Network (COGENT/CGRD). http://www.cogentnetwork.org/index.php/faq/139-coconut-germplasm-conserved-by-cogent. Diakses pada 1 Mei 2016.

Chabrillange N, Aberlenc-Bertossi F, Noirot M, Duval Y & Engelmann F (2000) Cryopreservation of oil-palm embryogenetic suspensions. Dalam: Engelmann F & Takagi H (eds) *Cryopreservation of Tropical Plant Germplasm: Current Research Progress and Application.* Roma: Japan International Research Center for Agricultural Sciences / International Plant Genetics Research Intitute. h.341 -347.

Chan E & Elevitch CR (2006) Cocos nucifera (coconut) ver. 2.1. Dalam: Elevitch CR (ed.). *Species Profiles for Pacific Island Agroforestry*. Hōlualoa, Hawai'i Permanent Agriculture Resources (PAR). http://www.traditionaltree.org. Diakses pada tanggal 12 Maret 2016.

Chimielarz P (2010) Cryopreservation of orthodox seeds of *Alnus glutinosa* *CryoLetters* 31: 139-146

Cruz-Cruz CA, Gonzalez-Arnao M & Engelmann F (2013) Biotechnology and Conservation of Plant Biodiversity. http://www.mdpi.com/search?q=Biotechnology+and+Conservation+of+Plant+Biodiversity&journal=resources&authors=&section=&search=Search&article_type=&special_issue=. Diakses pada 1 Mei 2015.

Danso KE & Ford-Lloyd BV (2011) Cryopreservation of cassava micropropagules using simple slow freezing and vitrification technique. *Biotecnology* 10 : 415 – 420

Darwis M (2006) Upaya penendalian hama *Sexava* spp secara terpadu. Presepektif review penelitian tanaman industri. http://ejurnal.litbang.pertanian.go.id/index.php/psp/article/view/2906 Di akses pada 15 April 2016

Dullo ME, Ramanatha RV, Engelmann F & Engels JMM (2005) Complementary conservation of coconuts. Dalam Batugal P, Ramanatha RV, Oliver J (eds) *Coconut Genetic Resources*. Serdang, Selangor DE, Malaysia : International Plant Genetic Resources Institute-Regional Office for Asia, the Pacific and Oceania (IPGRI-APO) h.75-90

Engelmann F (1990) Conservation in vitro of forest tree genetic resources. Dalam: *Training Course in Management of Forest Genetic Resources and Agroforestry Areas*. Bogor : Biotrop 23 Maret 1990.

Engelmann F (1991) In vitro conservation of tropical plant germplasm – a review. *Euphytica* 57: 227 – 243

Engelmann F, Lartaud M, Chabrillange N, Carron MP, & Etienne H (1997) Cryopreservation of embryogenic calluses of two commercial clones of *Havea brasiliensis* . CryoLetters 18 : 107 -116

Engelmann F (2004) Plant Cryopreservation: Progress & Prospect. In Vitro Cell & Development *Biology- Plant* 40: 427 – 433

Engelmann F & Dullo F (2007) Complementary strategies for ex situ conservation of coffee (*Coffea arabica* L.) genetic resources. Dalam Engelmann F, Dullo ME, Astorga C, Dussert S & Anthony F. *Conserving Coffe Genetic Resources*. Bioversity International, Rome, Italy h 1-11.

EsquivelAA, Victor M & Engelmann F (1992) Cryopreservation of zygotic embryos of coffea. *Cryo-Letters* 13: 297 – 302

FAO (2014) Data FAOSTAT. Food and Agriculture Organization of the United Nation (FAO), Rome, Italy. http://faostat3.fao.org/download/T/TP/E. Diakses pada 6 April 2016.

Fang AW & Paul H (2004) Cryopreservation of the cocoa (Theobroma cacao l) somatik embryos for long- term germplasm storage . *Plant Science* 166: 669–675

Foale M (2003) *The Coconut Odyssey the Bounteous Possibilities of the Tree of Life*. Canbera. Australian Centre for international Agricultural research (ACIAR)

Foale MA & Hugh H (2009) Farm and forestry production and marketing profile for coconut. Internet publication of the University of Hawaii http://agroforestry.net/scps/Coconut_specialty_crop.pdf Diakses pada 16 April 2016

Galvao J, Davis B, Tilley M, Normando E, Duchen MR, Cordeiro MF (2013) Un Expected low dose toxicity of the universal solvent DMSO. *The FASEB Journal* 28 : 1- 14

Gomes-Copeland KKP, Santos IRI, Almeida FTC & Ledo AS (2015) Performance pf cryoprotectants, dehydration methods and tetrazolium test on the zygotic embryos of BGD coconut. *Scientia Plena* 11:1-7

Gurtovenko AA & Anwar J (2007) Modulating the structure and properties of cell membranes: the molecular mechanism of action of dimethyl sulfoxide. *The Journal Physical Chemistry* 111: 10453-10460

Halmagyi A, Valimereanau, Coste A, Deliu C & Isac V (2010) Cryopreservation of Malus shoo tips and subsequent plant regeneration. *Romanian Biotechnologycal Letters* 15:79-85

Hargreaves CL, Foggo M, Smith DR & Gordon M (1999) Development of protocols for the cryopreservation of zygotic embryos of pinus radiata and subsequence plant regeneration *New Zeland Journal Of Forestry Science* 29 : 54 - 63

Hitmi A, Barthomeuf C & Sallanon H (1999) Cryopreservation of *Chrysanthemum cinereriaefolium* shoot tip effect of pretreatment condition and retention of biosyintetic capacity. *CryoLetters* 9 : 109 -120

Hosang MLA & Salim (2014) Penekanan populasi *Oryctes rhinoceros* dan *Rhynchophorus ferrugineus* dengan perangkap dan feromon Dalam Karmawati E, Effendi DS, Hartati S, Trisawa IW & Wulandari S (eds) Prosiding Konferensi Nasional Kelapa VIII *Pengembangan Bioindustri Kelapa Berkelanjutan Berbasis Inovasi Teknologi Ramah Lingkungan*, Jambi: Balai Penelitian Tanaman Palma 21-22 Mei 2014, h 65 – 72

Husein .A 2014. Perkembangan Aneka Industri Berbasis Kelapa di Kabupaten Banyumas. Dalam Karmawati E, Effendi DS, Hartati S, Trisawa IW & Wulandari S (eds) Prosiding Konferensi Nasional Kelapa VIII *Pengembangan Bioindustri Kelapa Berkelanjutan Berbasis Inovasi Teknologi Ramah Lingkungan*, Jambi: Balai Penelitian Tanaman Palma 21-22 Mei 2014, h 33- 34

Ismail,N (2009 *)Prospek Menguntungkan Inventasi Budidaya Komoditi Kelapa*. Samarinda : Badan Perijinan dan Penanaman Modal Daerah

Karun A & Sajini KK (1994)Short term of Coconut zygotic Embryos in Steril Water. *Current Science* 67:118 -120

Karun A, Sajini KK & Parthasarathy VA (2005) Cryopreservation of mature coconut embryos by desiccation method. *Cord* 21:13-19.

Karun A, Rajesh MK, Samsudeen & Engelmann (2014) Coconut (*Cocos nucifera* L.) pollen cryopreservation. *CryoLetters.* 35: 407–417

Karunarante SM (1998) Short term *in vitro* preservation of coconut seed material : a method to facilitate field collection and transport of coconut germplasm. Cord 4:40–47

Kaviani B (2011) Conservation of plant genetic resources by cryopreservation. *Australiant journal of Crops Since* 5:778 –800

Kim H.H, Cha YS, Baek HJ, Cho EG, Chae YA & Engelmann F (2002) Cryopreservation of tea (*Camellia sinensis* L.) seeds and embryonic axes. *CryoLetters* 23:209 – 216

Kriswityanti, E. 2013. Keanekaragaman karakter tanaman kelapa (Cocos nucifera L) yang digunakan sebagai bahan upacara padudusan Agung. Jurusan Biologi . FMIPA. Universitas Udayana Bali. *Jurnal Biologi XVII* 1 :15 – 19

Kustantini D (2014) Pengaruh serangan hama kwangwung (*Oryctes rhinoceros* L.) terhadap ketersediaan benih kelapa di kabupaten Blitar. Surabaya: Balai Besar Perbenihan dan Proteksi Tanaman Perkebunan (BBPPTP). http://ditjenbun.pertanian.go.id/bbpptpsurabaya/tinymcpuk/gambar/file/Pengaruh%20Serangan%20Hama%20Kwangwung.pdf Diakses pada 24 April 2016.

Lechtenberg D, Lechrternberg MVW & Partner (2012) Coconut Sheels as an alternative fuel. *Global cement magazine* Oktober 2012 h.12 -13

Ledo AS, Moura CRF, Machado CA, Ramos SRR, Silva AVC & Ledo CA (2014) Mannitol for coconut ex situ conservation by minimum growth. *Pesquisa Agropecuaria Brasilia* 49:148-151.

Lobalohin S, Noya SH & Hasinu JV (2014) Kerusakan tanaman kelapa (*Cocos nucifera* L.) akibat serangan hama *Sexava* sp dan *Oryctes rhinoceros* di kecamatan teluk elpaputih kabupaten Maluku Tengah. *Jurnal Budidaya Pertanian* 10:35-40.

Lolong AA & Motulo HFJ (2014) Penyakit layu kalimantan pada tanaman kelapa rakyat di Kalimantan Timur. Dalam Karmawati E, Effendi DS, Hartati S, Trisawa IW & Wulandari S (eds) Prosiding Konferensi Nasional Kelapa VIII *Pengembangan Bioindustri Kelapa Berkelanjutan Berbasis Inovasi Teknologi Ramah Lingkungan*, Jambi: Balai Penelitian Tanaman Palma 21-22 Mei 2014, h 199-204

Machado AC, Moura CRF, Lemos EE, Ramos SR, Ribeiro FE, & Ledo AS (2014) Pollen grain viability of coconut accession at low temperatures. *Acta Scientiarum. AgronomyMaringá* 36:227-232

Mansor, Che Man YB, Shuhaimi M, Abdul AMJ & Ku Nurul FKM (2012) Physicochemycal properties of virgin coconut oil extracted from different processing methods. International Food Research Journal 19: 837-845

Markovic Z, Chatelet P, Sylvestre I & Engelmann F (2013) Cryopreseervation of grapevine (*Vitis vinifera* l.) in vitro shoot tips. *Central Europan Journal of Biology* 10:993 - 1000

M.Frietas Neto. Penelra, Geronimo. AON.azevedo . SSR Ramos & Pereira . (2016). Coconut Genome Size Determined By Flowcytometry : Tall Versus Dwarf Types. *Genetics and Molecular Research* http://www.ncbi.nlm.nih.gov/pubmed/26909966

Nasir G (2014) *Statistik Perkebunan Kelapa Indonesia 2013 – 2015*. Jakarta: Direktorat Jendral Perkebunan.

Neymar O (2014) Quina seed cryopreservation (*Strychnos pseudoquina A.St.Hil*) *Global Journal Of Biochemistry and Biotechnology* 2:105 - 110

N'Nan O, Borges M, Konan JLK, Hocher V, Verdeil JL, Tregear J, N'Guetta ASP, Engelmann F & Malaurie B (2012) A simple protocol for cryopreservation of zygotic embryos of ten accessions of coconut (*Cocos nucifera* L.). *In Vitro Cellular & Developmental Biology-Plant* 48:160–166

N'Nan O, Gonedele S, Tiecoura K, Konan JLK & Malaurie B (2014) Use of plumules cryopreservation to save coconut germplasm in areas infected by lethal yellowing. *African journal of Biotechnology* 13: 1702 – 1706

Notman R, Anwar J & O'Malley B (2006) Molecular basis for dimethyl sulfoxide (DMSO) action on lipid membranes. *Journal of the American Chemical Society* 128 : 13982 - 13983

Norain H, Husseinsyah S & Zakaria MM (2016) Improved properties of coconut shell regenerated cellulose biocomposite films using butyl methacrylate. 11: 886-896

Novarianto H, Akuba RH, Mashud N, Tenda E & Kumaunang J (2005) Status of coconut genetic resources research in Indonesia. Dalam Batugal P, Ramanatha RV, Oliver J (eds) *Coconut Genetic Resources*. International Plant Genetic Resources. Serdang, Selangor DE, Malaysia: Institute-Regional Office for Asia, the Pacific and Oceania (IPGRI-APO) h 608-617

Novarianto H & Tampeke H (2007) Pengembangan industri benih kelapa berbasis PVT dan pelestarian plasma nutfah *in situ*.

Novarianto H (2008) *Plasma Nutfah Kelapa Terancam Hilang*. Manado : Balitka, dalam *Tabloid sinar tani*, 5 – 11 maret 2008

Novianti D, A Arie , Lolong & Pandin DS (2014) Korelasi antara luas pertanaman kelapa yang terserang penyakit layu Kalimantan dengan tiga factor cuaca . Dalam Karmawati E, Effendi DS, Hartati S, Trisawa IW & Wulandari S (eds) Prosiding Konferensi Nasional Kelapa VIII *Pengembangan Bioindustri Kelapa Berkelanjutan Berbasis Inovasi Teknologi Ramah Lingkungan*, Jambi: Balai Penelitian Tanaman Palma 21-22 Mei 2014, h 147 -154

Ohler JG & Magat SS (2016) *Cocos nucifera*. http://uses.plantnet-project.org/en/Cocos_nucifera_(PROSEA). Diakses pada 24 Juni 2016

Panis B, Totte N, Nimmen KV, Withers LA & Swennen R (2005) Cryopreservation of banana (Musa sp) meristem cultures after preculture on sucrose. *Plant Science* 168 : 45 -55

Panis & Lambardi (2005) Status of Cryopreservation technologies in plant (Crops and Forest Trees). *The Rule Of Biotechnology* h 43-54.

Peran.R, Berjak P, Pammenter NW & Kioko (2006) Cryopreservation , encapsulation and promotion of shoot production of embryogenic axes of a recalcitrant species *Ekebergia capensis*, Sparm. *CryoLetters* 27: 5-16

Prabowo A (2005) *Buku Rencana Induk Rehabilitasi dan Rekonstruksi Wilayah Aceh dan Nias : Sumatera Utara*. Aceh: Bidang Sumberdaya Alam Dan Lingkungan Hidup

Prades A, Dornier M, Diop N & Jean-Piere P (2011) Coconut water uses, composition and properties *Fruits* 67: 87 – 107

Radha RK, Decruse SW & Krishan PN (2010) Cryopreaervation of excised embryonic axes of *Nothapodytes nimmoniana* (Graham) Mebberly – A vulnerable medicinal tree species of the western Ghats. *Indian Journal Of Biotechnology* 9 : 435 437

Rejeki T, Yudi Y (2014) Keberadaan Kumbang Badak di Wilayah BBPPTP Surabayahttp://ditjenbun.pertanian.go.id/bbpptpsurabaya/tinymcpuk/gambar/file/7.%20Oryctes%20rhinoceros%20%20-%20Kiki.pdf Diakses pada 13 April 2016.

Rillo EP (2004) Importing and growing embryos for the coconut genbank. Dalam Ikin R, Batugal P (eds) *Germpalsm Health Management for COGENT's Multi-Site International Coconut Genebank*. Serdang, Selangor DE, Malaysia : International Plant Genetic Resources Institute-Regional Office for Asia, the Pacific and Oceania (IPGRI-APO) h 66-68

Sajini KK, Karun A & Kumuran PM (2006) Cryopreservation of coconut (*Cocos nucifera* L.) zygotic embryos after pre-growth desiccation. *Journal of Plantation Crops* 34 : 576- 581

Sekarini R (2016) Ada 2 juta tanaman kelapa , sebagian besar berusia tua. http://www.harianjogja.com/baca/2016/03/07/pertanian-kulonprogo-ada-2-juta-tanaman-kelapa-sebagian-besar-berusia-tua-698510 diakses pada 20 April 2016

Sharaf SA, Shibli RA, Kasrawi MA, Baghdadi SH. (2012) Cryopreservation of wild Shih (*Artemisia herba-alba* Asso.) shoot tip by encapsulation-dehydration and encapsulation- vitrivication. *Plant Tissue and Organ Culture* 108 :437-444

Shibili RA, Shatanawi MA, Subaih WS & Ajlouni M (2006) *In vitro* conservation of plant genetic resources. *World Journal of Agriculutural Sciences* 2:372 - 382

Sisunandar, Rival A, Turquay P, Samosir Y & Adkins SW (2010) Cryopreservation of coconut (*Cocos nucifera* L.) zygotic embryos does not induce morphological cytological or molecular changes in recovered seedlings. *Planta* 232 : 435 – 447

Sisunandar, Peter A, Samosir YMS, Rival A & Adkins SW (2010) Dehydration improve cryopreservation of coconut (*Cocos nucifera* L) *Cryobiology* 61:289 -296

Sisunandar, Peter A, Samosir YMS, Rival A & SW Adkins (2012) Conservation of Coconut (*Cocos nucifera* L) germplasma at sub-zero temperature. *CryoLetters* 33:465 – 475

Sisunandar, Novarianto H, Mashud N, Samosir YMS & Adkins SW (2014) Embryo maturity plays an inmportant role for the successful cryopreservation of coconut (*Cocos nucifera*). *In Vitro Cellular & Developmental Biology-Plant* 50:688-695.

Sivakumar K, Mohemmed M, Varghese R & Kumar S (2011)Antibacterial potential of root and bark of *Cocos nucifera* linn. against isolated urinary tract infection causing pathogens *Biotechnology* 2:489- 500

Steinmacher DA, Saldanha WC, Clement CR & Guerra MP (2007) Cryopreservation of peach palm zygotic embryos. *CryoLetters* 28:13-22.

Sukendah & Cedo (2005) In vitro conservation of coconut (*Cocos nucifera* L.) embryos in culture media . *Biotropia* 25:11 – 21

Tulalo, M, Maskromo I & Novarianto H (2007) Status kebun koleksi plasma nutfah kelapa internasional asia tenggara (the internasional coconut gene bank for saouth east and east asia (ICG-SEA) di Indonesia. *Warta penelitian pengembangan* 13:8-10.

Thomas R & Josephrajkumar (2013) Flowering and pollination biology in coconut. *Journal of Plantation Crops* 41:109-117

Tjitrosoepomo (2000) Morfologi Tumbuhan. Yogyakarta: Gajah Mada University Press.

Uchendu EE & Reed BM (2008) Acomparative study of three cryopreservation protocols for effevtive storage in vitro- grown mint (*Mentha spp*). *CryoLetters* 29:181-188

Usman IS & Abdulmalik MM (2010) Cryopreservation of embryonic axes of maize (zea mays l.) by vitrification protocol. *African journal of Biotechnology* 9:8955- 8957

Umarani R, Aadhavan.E & Faisal M (2015) Understanding poor storage potential of recalcitrant seeds.*Current Science* 108 : 2023 – 2034

Van steenis CGGJ (1987) *Flora untuk Sekolah di Indonesia* (terjemahan) PT. Pradnya Paramita. Jakarta. h 1-495.

Walters C, Wheeler L & Standwood P (2004) Longevity of cryogenically stored seeds. *Cyobiology* 48:229-244.

Wang B, Yin Z, Feng C, Shi X, Li Y & Wang Q (2008) Cryopreservation potato shoot tips. *Fruit, Vegetables And Cereal Science And Biotechnology* 2:46 - 53

Yong JWH, Ge L, Fei Ng Y & Tan SN (2009) The chemical composition and biological properties of coconut (Cocos nucifera L.) water *Molecules* 14:5144- 5164

Young HS, Ted KR, Douglas J, McCauley,Amy AB & Rodolfo D (2010) The coconut palm, Cocos nucifera , impacts forest composition and soil characteristics at Palmyra Atoll, Central pacific. *Jurnal of Vegetation Sicence* 21:1058-1068

Zalewska M & Kulus D (2014) Improvement of *Chrysanthenum* x *grandiflorum* (Ramat.) Kitam. Encapssulation-dehydration cryopreservation protocol. *Acta Science Polonorum* 13:97-108.

Zhou Q, Yu-Wei H, Ze-Hai J, Tian-Dai, Xue-Medi D & Hua-Sun H (2012) Cryopreservation and plant regeneration of anther callus in Hevea by vitrification. *African Journal of Biotechnology* 11:7212-7217