UNIVERSITAS GADJAH MADA
Pengaruh Photoautotrophic Micropropagation System terhadap Aktivitas Gen HSP70 pada "Anggrek Macan" (Grammatophyllum scriptum (Lindl.) Bl.) secara In vitro
EKA FITRIANA CANDRA NINGRUM, Dr.rer.nat. Ari Indrianto, S.U.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Ahluwalia, K. B. 2009. *Genetics : Second Edition*. New Delhi : New Age International (P) Limited Publisher. P. 54.

Allison L. A. 2007. *Fundamental Molecular Biology*. Blackwell : Oxford. Pp : 72-76.

Aparicio, F., Thomas, C. L., Lederer, C., Niu, Y., Wang, D. and Maule, A. J. 2005. Virus Induction of Heat Shock Protein 70 Reflects a General Response to Protein Accumulation in the Plant Cytosol. *Plant Physiology*. 138 : 529-536.

Aranda, P. S., LaJoie, D. M. and Jorcyk, C. L. 2012. Bleach Gel : a Simple Agarose Gel for Analyzing RNA Quality. *Electrophoresis*. 33 : 366-369.

Arditti, J. 1992. *Fundamentals of Orchid Biology.* John Wiley and Sons, Inc. USA. Pp : 550-557.

Avila-Diaz, I., Oyama, E. K., Gomez-Alonso, E.C. and Salgado, R. 2009. *In vitro* propagation of the endangered orchid *Laelia speciosa. Plant Cell Tiss. Organ Cult.* 99 : 335-343.

Bey Y., Syafii, W. dan Sutrisna. 2006. Pengaruh Pemberian Giberelin (Ga3) dan Air Kelapa Terhadap Perkecambahan Bahan Biji Anggrek Bulan (*Phalaenopsis amabilis* Bl.) Secara *In vitro*. *Jurnal Biogenesis* 2(2) : 41-46.

Bintang, M. 2010. *Biokimia Teknik Penelitian*. Erlangga, Jakarta. Hal : 99, 103-106.

Campbell, N.A., Reece, J.B. dan Mitchell, L.G. 2004. *Biologi*. Edisi kelima. Jilid 1. Erlangga. Jakarta. hal: 302-310.

Chugh. S., Guha, S., and Rao, I. U. 2009. Micropropagation of orchids : a review on the potentialof different explants. *Sci Hortic*. 122(4): 507-520.

Convention on International Trade in Endangered Species of Wild Fauna and Flora. 2018. https://cites.org/eng/node/35218 . Diakses tanggal 17 agustus 2018 19.55

Dressler, R. L. 1981. *The Orchids Natural History And Classification.* Harvard University Press. United State of America. P. 23.

Farrell R. E. 2010. *RNA Methodologies : Laboratory Guide for Isolation and Characterization*. Elsevier. London. Pp : 12-14.

Fatchiyah., Arumingtyas, E. L., Widyarti, S. dan Rahayu, S. 2011. *Biologi Molekular: Prinsip Dasar Analisis*. Jakarta : Penerbit Erlangga. Hal. : 36-38.

Fatumi, A. 2016. *Perbanyakan Anggrek Macan (Grammatophyllum scriptum (*Lindl.*)* Bl.*) Secara In vitro dengan Photoautotrophic Micropropagation System.* Skripsi. Universitas Gadjah Mada. Yogyakarta.

Firgiyanto. 2016. Uji Ketahanan Anggrek Hibrida *Phalaenopsis* terhadap Penyakit Busuk Lunak yang Disebabkan oleh *Dickeya dadantii. J. Agron*. 44 (2) : 204 - 210

Fosket, D.E. 1994. *Plant Growth and Development a Molecular Approach*. Academic Press. New York, London, Sydney. p.298-331

Fukino N., Ohara, T., Monforte, A., Sugiyama, M., Sakata, Y. Kunihisa, M. and Matsumoto, S. 2004. Identification of QTLs for resistance to powdery mildew and SSR markers diagnostic for powdery mildew resistance genes in melon (Cucumis melo L.). *Theor Appl Genet*. 118:165–175.

UNIVERSITAS
GADJAH MADA
Pengaruh Photoautotrophic Micropropagation System terhadap Aktivitas Gen HSP70 pada "Anggrek Macan" (Grammatophyllum scriptum (Lindl.) Bl.) secara In vitro
EKA FITRIANA CANDRA NINGRUM, Dr.rer.nat. Ari Indrianto, S.U.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Fukuda, H., Ito, M. Sugiyama, M., and Komamine, A. 1994. Mechanism of The Proliferation and Differentiation of Plant Cells in Cell Culture System. *J. Dev Biology*. 38:287

Hani, M. R. 2015. *Pengaruh Penyemprotan Kitosan Pada Aklimatisasi Plantlet Anggrek Macan (Grammatophyllum scriptum)*. Jurusan Biologi Fakultas MIPA UNS. Surakarta.

Hew, C.S., and Yong, J. W. H. 2004. *The Physiology of Tropical Orchids in Relation to the Industry 2nd edition*. Singapore : World Scientific Publishing. Pp. 1 – 161.

Hilae, A. and Te-chato, S. 2005. Carbon Sources and Strenght of MS Medium on Germination of Somatic Embryos of Oil Palm (*Elaeis quineensis* Jacq.). *J. Sci. Technol.* 27 (3): 629-635.

Irawati. 2001. *Dendrobium capra* J.J. Sm. Dalam : Mogea, J.P., Gandawijdjaja, D., Wiriadinata, H., Nasution, R.E. dan Irawati (ed.). *Tumbuhan Langka Indonesia.* Puslitbio. LIPI. Bogor.

Isnaini, Y., Hendriyani, E. dan Nurfadilah, S. 2011. *Konservasi In Vitro dan Perbanyakan Anggrek Alam di Kebun Raya Indonesia*. Prosiding. Seminar Nasional : Konservasi Tumbuhan Tropika : Kondisi Terkini dan Tantangan.

Jawan, R., Gansau, J.A. and Abdullah, J. O. 2010. *In vitro* Culture of Borneo's Endemic Orchid, *Vanda dearei. AsPac J. Mol. Biol. Biotechnol*. 18 (1) : 203-207.

Karitas, M.U. dan Fatchiyah. 2013. Profil Protein 30 – 60 kDa pada Yoghurt Hasil Fermentasi Susu Kambing Etawa Peranakan Etawa dengan Kultur Tunggal. *Jurnal Biotropika*. 1(2): 65 – 69.

Kesaulija, S. E. 2002. *Eksplorasi Jenis Anggrek Epifit pada Kawasan Hutan Mangrove Oransbari Kabupaten Manokwari*. Skripsi. Fakultas Kehutanan. UNIPA. Papua. http://www.papuaweb.org/unipa/dlibs123/skripsi-terbaru.html. Diakses tanggal 23 Desember 2017.

Lo, S., Wade, S., Kuo, C., Chen, C., and Tsay, H. 2004. Asymbiotic germination of immature seeds, *plantlet* development and ex vitro establishment of plants of *Dendrobium tosaense* makino a medicinally important orchid *In vitro* Cell. *Dev. Biol.Plant*. 40: 528-535.

Madhad, V. J. and Sentheil, K. P. 2014. The Rapid and non-enzymatic Isolation of DNA from Human Peripheral Whole Blood Suitable for Genotyping. *Journal of Biotechnology and Bioscience*. 1 (3) : 01-16.

Mahasri, G., Fajriah, U. dan Subekti, S. 2010. Karakterisasi Protein Larnea cyprinaea dengan Metode Elektroforesis SDS-PAGE. *Jurnal Ilmiah Perikanan dan Kelautan*. 2 (1): 61 – 66.

Malcevschi, A. and Marmiroli, N. 2012. *Plant Protein Analysis*. pp. 117 – 142. *In* Heazlewood, Joshua (Ed). *Proteomics Applications in Biology*. InTech Europe. University Campus SteP Ri. Croatia.

Mangiwa, E. 2002. *Jenis-jenis Anggrek Epifit pada Kawasan Hutan Pulau Rumberpon.* Fahutan Unipa. Papua.

Millar, A. 1999. *Orchids of Papua New Guinea*. Timber Press. United State of America.

Moreira, P. A. and Oliveira, D. A. 2011. Leaf Age Effects the Quality of DNA Extracted from *Dimorphandra mollis (*Fabaceae) a Tropical Tree Species

UNIVERSITAS GADJAH MADA
Pengaruh Photoautotrophic Micropropagation System terhadap Aktivitas Gen HSP70 pada "Anggrek Macan" (Grammatophyllum scriptum (Lindl.) Bl.) secara In vitro
EKA FITRIANA CANDRA NINGRUM, Dr.rer.nat. Ari Indrianto, S.U.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

from the Cerrado Region of Brazil. *Genetics and Molecular Research*. 10 (353-358).

Nicholl, D.S.T. 2008. *An Introduction to Genetic Engineering: Third Edition*. United Kingdom : Cambidge University Press.

Palumbi, S., Martin, A., Romano, S., McMillan, W. O., Stice L. and Grabowski, G. 2002. *The Simple Fool's Guide to PCR*. Hawai University. p : 7.

Poedjiadi, A dan Supriyanti, F.M.T. 2005. *Dasar-dasar Biokimia*. Jakarta: UI Press. Hal. 81, 109.

Rachmania, R. A., Wahyudi, P., Wardani, A. M. and Insani, D. R. 2017. Molecular Weight Profile of Protease of Pineapple (*Ananas comosus* L. Merr) and Papaya (*Carica papaya* L.) Using SDS_PAGE Method. *ALCHEMY Jurnal Penelitian Kimia*. 13 (1**)** 52 – 65.

Ramsay, J. L., Galitz, D.S. and Lee, C. W. 2003. Basal Medium and Sucrose Concentration Influence Regeneration of Easter Lily in Ovary Culture. *J. Hort. Science*. 38(3): 404-406.

Rosdiana. 2010. Pertumbuhan Anggrek Bulan *(Phalaenopsis amboinensis)* Endemik Sulawesi, Pada Beberapa Jenis Dan Konsentrasi Zat Pengatur Tumbuh Secara *In vitro. Jurnal Agrisistem* 6 (2).

Rubi-Pina, J. A. and ZapatapPerez, O. 2011. Isolation of Total RNA from Tissue Rich in Polyphenols and Polysaccharides of Mangrove Plants. *Electronic Journal of Biotechnology*. (14) : 1-8.

Sambrook, J. and David, W. R. 2001. *Molecular Clonning : a Laboratory Manual 3rd ed*. Cold Spring Harbor : Cold Spring Harbor Laboratory Press. ISBN : 0-87696-309-6.

Santos-Herna´ndez L., Martý´nez-Garcý´a M., Campos, J. E. and Aguirre-Leo´n E. 2005. *In vitro* propagation of *Laelia albida* (Orchidaceae) for conservation and ornamental purposes in Mexico. *Hortic Sci*. (40):439–442.

Sasongko, A. B., Fatumi, A., and Indrianto, A. 2016. The Growth Improvement of *Grammatophyllum scriptum* (Lindl.) Bl. *In vitro Plantlet* using *Photoautotrophic Micropropagation System*. *Indonesian Journal of Biotechnology*. 21(2) : 109–116.

Semiarti, E dan Rozikin. 2015. Karakterisasi gen ketahanan terhadap suhu tinggi *HSP70* pada anggrek *Vanda tricolor* var. *suavis* forma Merapi. *Pros Sem Nas Masy Biodiv Indonesia*. 1 (3) : 404-408.

Snedden, R. 2011. *DNA dan Kejuruteraan Genetik*. Percetakan Tabah Sdn. Bhd. Malaysia. Hal : 19.

Soeryowinoto, M. 1998. *Mengenal Anggrek Alam Indonesia*. Jakarta : PT. Penebar Swadaya. Jakarta. Hal : 45.

Sofer, W.H. 1991. *Introduction to Genetic Engineering*. Butterworth – Heinemann Publishing, USA. Pp : 174-176.

Sudarmadji S, Haryono, B., dan Suhardi. 1981. *Analisa Bahan Makanan dan Pertanian*. UGM Press. Yogyakarta. Hal : 15-18.

Suharsono, Syarifin, F. dan Utut W. S. 2008. Isolasi pengkolanan fragmen cDNA dari gen penyandi multidrug resistance associated protein dari *Melastoma affine*. *Jurnal Makara Sains.* 12 (2) : 102-107.

Sung, D. Y. 2001. *Characterization of Arabidopsis Heat Shock Protein 70 (HSP70) Gene Family and Microarray Analysis of Gene Expression in*

UNIVERSITAS
GADJAH MADA
Pengaruh Photoautotrophic Micropropagation System terhadap Aktivitas Gen HSP70 pada "Anggrek Macan" (Grammatophyllum scriptum (Lindl.) Bl.) secara In vitro
EKA FITRIANA CANDRA NINGRUM, Dr.rer.nat. Ari Indrianto, S.U.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Response to Temperature Extremes. Dissertation. University of Florida. United States. Pp : 6, 44, 118.

Teixera da Silva[1], Dam, J.A., Giang, D.T. and Michia, T. 2005. *In vitro* acclimatization of banana and *Cymbidium*. *International Journal of Botany* 1(1) : 41 -49.

Teixera da Silva[2], Dam, J.A., Giang, D.T. and Michia, T. 2005. *Effective Acclimatization of Epidendrum in vitro* Using a Novel Micropropagation Vessel. *Biotechnology* 4(3): 214-220.

Vierling, E. 1991. The Roles of Heat Shock Protein in Plants. *Annual Reviews Plant Physiology Plant Molecular Biology*. 42 : 579-620.

Wang, L. and Stegmann, J. P. 2009. Extraction o High Quality RNA from Polysaccharide Matrices Using Cetlytrimethyl Ammonium Bromide. *Biomaterials*. (31) 1612-1618.

Wattimena, G. A., Gunawan, L. W., Mattjik, N. A., Syamsudin, E., Wiendi, N.M.A. dan Ernawati, A. 1992. *Bioteknologi Plantlet*. Laboratorium Kultur Jaringan Tumbuhan. Pusat Antar Universitas . IPB. Hal : 309

Wilson, K. And Walker, J. 2000. *Principles and Techniques of Practical Biochemistry Fifth Edition*. United Kingdom : Cambridge University Press.

Xiao, Y. and Kozai, T. 2006. *In vitro* Multiplication of Statice *Plantlet*s Using Sugar-free Media. *Scientia Holticulturae*. 109: 71-77.

Xu, Y. 2010. *Molecular Plant Breeding*. CABI. Oxford. Universal Kingdom.

Yusnita. 2003. *Kultur Jaringan: Cara memperbanyak* tanaman *secara efisien*. Agro Media Pustaka. Jakarta. Hal : 22.

Yuwono, T. 2005. *Biologi Molekuler*. Erlangga. Jakarta. Hal : 40-43.