



## DAFTAR PUSTAKA

- Amaro, H.M, A.C. Guedes and F.X. Malcata. 2011. Advances and perspectives in using microalgae to produce biodiesel. *Applied Energy* 88: 3402–3410.
- Becker, E.W. 1994. *Microalgae Biotechnology and Microbiology*. Cambridge University Press. Cambridge.
- Bertoni, E.P., M. Sprenkle, J. P. Hanifin, M. H. Stetson, and G. C. Brainard. 1992. Effect of short photoperiod on ATPase in the testis of the immature siberian hamster. *Journal of Biology*: 509-513.
- Bligh, E.G. and W.J. Dyer. 1959. A rapid method of total lipid extraction and purification. *Canadian Journal of Biochemistry and Physiology* 37: 911-917.
- Bold, H. C. and M. J. Wynne. 1985. *Introduction to the alga structure and reproduction*. Prentice Hall Inc. Englewood, New Jersey. P: 353.
- Borowitzka, M. A. and L. J. Borowitzka. 1988. *Microalgal Biotechnology*. Cambridge University Press. Cambridge. Pp: 27-58.
- Bouterfas, R., M. Belkoura and A. Dauta. 2006. The effects of irradiance and photoperiod on the growth rate of three freshwater green algae isolated from a eutrophic lake. *Limnetica* 25 (3): 647-656.
- Brennan, L. and P. Owende. 2010. Biofuels from microalgae: a review of technologies for production, processing, and extractions of biofuels and co-products. *Renewable and Sustainable Energy Review* 14: 557–577.
- Chisti, Y. 2007. Biodiesel from microalgae. *Biotechnology Advances* 25: 294–306
- Croft, M. T., A. D. Lawrence, E. Raux-Deery, M. J. Warren, and A. G. Smith 2005. Algae acquire vitamin B12 through a symbiotic relationship with bacteria. *Nature*. 438: 90-93.
- Dermoun, D. 1987 in Bouterfas, R., M. Belkoura and A. Dauta. 2006. The effects of irradiance and photoperiod on the growth rate of three freshwater green algae isolated from a eutrophic lake. *Limnetica* 25 (3): 647-656.
- Endrawati, H., M. Christin dan Widianingsih. 2012. Densitas dan kadar total lipid Mikroalga *Spirulina platensis* yang dikultur pada fotoperioda yang berbeda. *Buletin Oseanografi Marina* 1: 33-38.
- Fa'bregas, J., A. Maseda, A. Domínguez, M. Ferreira, and A. Otero. 2002. Changes in the cell composition of the marine microalga, *Nannochloropsis gaditana*, during a light:dark cycle. *Biotechnology Letter* 24:1699–1703.
- Febiano, C., F.C. Bertoldi, E. Sant'Anna, M. V. da Costa Braga, and J. L. B. Oliveira. 2006. Lipids, fatty acids composition and carotenoids of *Chlorella vulgaris* cultivated in hydroponic wastewater. *Grasas Y Aceites* 57(3): 270-274.
- Foy, R. H. and R. V. Smith. 1980. The role of carborhydrate accumulation in the growth of planktonic Oscillatoria species. Br. *Phycology Journal.*, 15: 139-150.
- Gardner, N.L. 1917. New pacific coast marine algae I. *University of California Publication in Botany* 14(6): 377-416.
- Grobelaar, J.U. 2009. Upper limits of photosynthetic productivity and problems of scaling. *Journal of Application Phycology* 21:519–522
- Guschina, I. A. and J. L. Harwood. 2006. Lipids and lipid metabolism in eukaryotic algae. *Progress in Lipid Research* 45(2): 160-186.



- Harwood, J. L. 1998. Membrane lipids in algae. In: Siegenthaler, P.A., and N. Murata. *Lipids in Photosynthesis: Structure, function, and genetics*. Kluwer Academic Publishers. Kluwer, Netherlands. P: 156.
- Hobson, L.A., F.A. Hartley and D.E. Ketcham. 1979. Effects of variations in daylength and temperature on net rates of photosynthesis, dark respiration and excretion by *Isochrysis galbana* Parke. *Plants Physiology* 63: 947-951.
- Kazamia, E., D.C. Aldridge and A.G. Smith. 2012. Synthetic ecology – A way forward for sustainable algal biofuel production. *Journal of Biotechnology* 162: 163-169.
- Kennish, M. J. 1990. *Ecology of estuaries; volume II biological aspect*. CRC Press. Boca Raton, Ann Arbor, Boston. Pp: 155-269.
- Kheira, A. A. A. And N. M. M. Atta. 2008. Response of *Jatropha curcas* L. to water deficit: yield, water use efficiency and oilseed characteristic. *Biomass and Bioenergy* 33(10): 1343-1350.
- Khoehyi, Z.A., J. Sefyabadi and Z. Ramezanpour. 2012. Effect of light intensity and photoperiod on biomass and fatty acid composition of the microalgae, *Chlorella vulgaris*. *Aquaculture International* 20: 41-49.
- Kim, J., Yoo, G., Lee, H., Lim, J., Kim, K., and Kim, C.W. 2013. Methods of downstream processing for the production of biodiesel from microalgae. *Biotechnology Advances*, 31(6):862-876.
- Kumar, Manoj., J. Kulshreshtha.,G. P. Singh. 2011. Growth ang Biopigment Accumulation of Cyanobacterium *Spirulina platensis* at Different Light Intensities and Temperature. *Brazilian Journal of Microbiology* 42:1128-1135.
- Mata T. M., Melo A. C., Simoes M. and Caetano N. S. 2012. Parametric study of a brewery effluent treatment by microalgae *Scenedesmus obliquus*, *Bioresource Technology*, 107: 151-158.
- Naughton, S.J. 1998. *Ekologi Umum*. Yogyakarta. Gadjah Mada University Press.
- Nontji, A. 1973. *Kandungan klorofil pada fitoplankton laut*. Skripsi Fakultas Biologi. Universitas Nasional, Jakarta. Hal : 42.
- Nuhamunada, M. 2014. *Produksi lipid dan biomassa mikroalga kultur tunggal Chlorella zofingiensis Dönz dan kultur campuran isolat Glagah dalam Raceway pond*. Fakultas Biologi UGM. Yogyakarta.
- Olguin, J.O., Anilu, M., Ricardo, E.G.P., and Eberto, N. 2015. Population dynamics in mixed cultures of *Neochloris oleobundans* and native microalgae from water of a polluted river and isolation of a diatom consortium for the production of lipid rich biomass. *New Biotechnology*, 30: 705-715.
- Piligaev, A.V., Sorokina, K.N., Bryanskaya, A.V., Peltok, S.E., Kolchanov, N.A., Parmon, V.N. 2015. Konsorsium of prospective microalgal konsorsiums with high saturated fatty acid contentfor biodiesel production. *Algal Research*, 12: 368-376.
- Rajvanshi, S. and M. P. Sharma. 2012. Microalgae: a potential source of biodiesel. *Journal of Sustainable Bioenergy Systems* 2: 49-59.
- Sforza, E., D. Simionato, G.M. Giacometti, A. Bertucco, and T. Morosinotto. 2012. Adjusted Light and Dark Cycles can Optimize Photosynthetic Efficiency in Algae Growing in Photobioreactors. *PLoS ONE* 7(6): 1-10.



- Spolaore, P., C. C. Joannis, E. Duran, and A. Isambert. 2006. Commercial application of microalgae. *Journal of Bioscience and Bioengineering* 101(2): 87-96.
- Suyono, E. A., W. Haryadi, M. Zusron, M. Nuhamunada, S. Rahayu, and A. P. Nugroho. 2015. The effect of salinity on growth, dry weight, and lipid content of the mixed microalgae culture isolated from Glagah as biodiesel substrate. *Journal of Life Sciences* 9: 229-233.
- Taiz, L. and E. Zeiger. 2002. *Plant Physiology* 3<sup>rd</sup> ed. Sinauer Associates, Inc. Sunderland. Pp: 112-115,175-179.
- Takagi, M., Karseno, and T. Yoshida. 2006. Effect of salt concentration on intracellular accumulationof lipids and triacylglyceride in marine microalgae *Dunaliella* cells. *Journal of Bioscience and Bioengineering* 101(3): 223-226.
- Tzovenis, I., N.D. Pauw, P. Sorgeloos. 1997. Effect of different light regimes on the docosahexaenoic acid (DHA) content of *Isochrysis* aff. *galbana* (clone T-ISO). *Aquaculture International* 5:489–507.
- Ugwu, C.U., H. Aoyagi, H. Uchiyama. 2007. Influence of irradiance, dissolved oxygen concentration, and temperature on the growth of *Chlorella sorokiniana*. *Photosynthetica* 45(2):309–311.
- Utama, I. V., S. Nopitasari, Stevanus, Fahrunnida, and R. D. Pahlevi. 2015. Isolasi kultur murni mikroalga dari konsorsium superkonsorsium mikroalga isolat Glagah sebagai stok *culture collection* di Indonesia. *Program Kreativitas Mahasiswa*. Universitas Gadjah Mada. Yogyakarta.
- Vollmann, J., T. Moritz, C. Karg., S. Baumgartner, and H. Wagentrust. 2007. Agronomic evaluation of Camelina genotypes selected for seed quality characteristics. *Industrial Crops and Products* 26(3): 270-277.
- Xu, Y., I.M. Ibrahim, and P.J. Harvey. 2016. The influence of photoperiod and light intensity on the growth and photosynthesis of *Dunaliella salina* (chlorophyta) CCAP 19/30. *Plant Physiology and Biochemistry* 106: 305-315.
- Xue, F., J. Miao, X. Zang, and T.Tan. 2010. A New Strategy for Lipid Production by Mix Cultivation of *Spirulina platensis* and *Rhodotorula glutinis*. *Applied Biochemistry and Biotechnology* 160: 498–503.
- Zeng, X., M.K. Danquah,X.D. Chen, and Y. Lu. Microalgae bioengineering : from CO<sub>2</sub> fixation to biofuel production. *Renewable and Sustainable Energy Review* 5(6): 3252–3260.