

DAFTAR PUSTAKA

- Aliah, M., B. Rahmawati., D.M. Khusnarimbi, dan Sutikno 2011. *Zat Warna*. Bahan Kuliah Mikroteknik Tumbuhan. Fakultas Biologi. Universitas Gadjah Mada. Yogyakarta.
- Anggarawati, D. 2010. *Aktivitas Enzim Selulase Isolat SGS BBP4B-KP menggunakan Substrat Limbah Pengolahan Rumput Laut yang dipretreatment dengan Asam*. Fakultas Teknik UI. Depok. 11-14.
- Anindyawati, T. 2010. Potensi Selulase dalam Mendegradasi Lignoselulosa Limbah Pertanian untuk Pupuk Organik. *Berita selulosa*. 45(2) : 121 - 132
- Ambarwati. 2009. Pengaruh Konsentrasi dan Waktu Inkubasi Enzim Selulase Terhadap Hasil Isolasi Protoplas Anggrek *In Vitro*. *Laporan Tesis*. Fakultas Biologi. Universitas Gadjah Mada. Yogyakarta.
- Arantes,V and J.N. Saddler. 2011. Cellulose Accessibility Limits the Effectiveness of Minimum Cellulase Loading on the Efficient Hydrolysis of Pretreated Lignocellulosic Substrates. *Biotechnology for Biofuel*. 4(3) : 1-3.
- Bradsaw, J.E. and G.R. Mackey. 1994. Breeding Strategies of Clonally Propagated Potatoes. In Bradsaw, J.E. and G.R. Mackey (Eds.). *Potato Genetic*. CAB International Cambridge. 467-498
- Berliner, M.D. 1977. Protoplast Induction in *Chlorella vulgaris*. *Plant Science Letters*. North-Holland Scientific Publishers Ltd. 9 : 201 – 204.
- Bold, H.C and Wyne, M.J. 1985. *Introduction to the Algae : Structure and Reproduction*. Englewood Cliffs, N.J. 662-706.
- CCAP. 2002. Walne's Medium for Algal Cultures. *Media Recipes Culture Collection of Algae and Protozoa*. Dunstaffnage Marine Laboratory. United Kingdom.
- Cocking, E.C. 1960. A Method for the Isolation of Plant Protoplast and Vacuoles. *Letters to Nature*. Department of Botany, University Nottingham. 187 : 962 - 963
- Cowling, E.B.1958. A Review of Literature on the Enzymatic Degradation of Cellulose and Wood. *Agriculture-Madison*. 21(16) : 1-10

- Constabel. 1984. Fusion of Protoplast by PEG. *In : Cell Culuture and Somatic Cell Genetics of Plants*. Academic Press. Inc Tokyo1. 414-422.
- Dermibas, A. and M. F. Dermibas. 2010. *Algae Energy: Algae as A New Sources of Biodiesel*. Berlin.
- Djajanegara, I. N. dan K, E, Khobar. 2009. Kondisi Optimum Fusi Protoplas Antara Jamur Tiram Putih (*Pleorotus floridae*) dan Brown Oyster Mushroom (*Pleorotus cystidiosusi*). *Berita Biologi*. 9(5) : 585-591
- Dodds, J.H and L.W Roberts. 1983. *Experimental in Plant Tissue Culture. Second Edition*. Cambridge Univ. Press. Cambridge, London. (2) : 107-125.
- Evans, D.A and Bravo, J.E. 1983. Protoplast Isolation and Culture Technique for Propagation and Breeding. Vol.1 New York Macmillan Publishing Co.
- Feng, P., Z. Deng., L. Fan., and Z. Lu. 2012. Lipid Accumulation and Growth Characteristics of *Chlorella zofingiensis* Under Different Nitrate and Phosphate Concentrations. *Journal of Bioscience and Bioengineering*. 114(4):405-410.
- Hendaryono, D. P. S dan Wijayani. 1994. *Teknik Kultur Jaringan dan Petunjuk Perbanyakkan Tanaman Secara Vegetatif Modern*. Kanisius. Yogyakarta
- Hersugondo, H.P.Kusumaningrum, dan M. Zainuri. 2011. Pengembangan UsahaBudidaya untuk Meningkatkan Pendapatan PetaniTambak melalui Diversifikasi PakanAkuakultur dengan Kandungan KarotenoidTinggi Hasil Fusi protoplasma Alga *Dunaliella* dan Khamir *Phaffia rhodozyma*. *Penelitian Hibah Bersaing*. Universitas Stikubank Semarang.
- Husni, G.A. Wattimena, J. Mariska A. dan Purwito. 2003. Keragaman Genetik Tanaman Terung Hasil Regenerasi Protoplas. Jurusan Agronomi, IPB. Bogor
- Indrianto, A. 2003 *Bahan Ajar Kultur Jaringan Tumbuhan*. Fakultas Biologi. Yogyakarta
- Isnansetyo, A. dan Kurniastuty. 1995. *Teknik Kultur Phytoplankton Zooplankton. Pakan Alam untuk Pembenihan Organisme Laut*. Kanisius.Yogyakarta.
- Istanti, A., T. Prasetyo, dan D. Listyorini. 1999. *Biologi Sel*. FP MIPA Universitas Negeri Malang. Malang
- Jannatunaim, R.Z., R.M. Hamid., G.P. Christy., Y.A. Purwestri, W.A.S. Tunjung. 2015. Identification of BSA B1 Bacteria and Its Potency of Purified

Cellulase to Hydrolyze *Chlorella zofingiensis*. *Indonesian Journal of Biotechnology*. 20 (1) : 77-87.

- Jefrey, S. W., S. W. Wright and M. Zapata. 2011. *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography*. Cambridge University Press. New York
- Karamian, R. and H. Ebrahimzadeh. 2001. Planlet Regeneration from Protoplas Derved Embriogenic Calli of *Crocus canellatus*. *Plant Cell, Tissue Organ Culture*. 65 : 115-121
- Kusumaningrum, H. P., E. Kusdiyantini., dan Wijanarka. 2003. Produksi Astaxanthin *Phaffia rhodozyma* Melalui Teknik Fusi Protoplas. Fakultas Sains dan Matematika Universitas Diponegoro. Semarang.
- Lehninger, A. 1982. *Dasar-dasar Biokimia jilid 1*. Alih Bahasa : Maggy T. Erlangga. Jakarta. 247.
- Lim, S.L, W.L. Chu, and S.M. Phang. 2010. Use *Chlorella vulgaris* for Bioremediation of Textile Wastewater. *Biosource Technology*. 101
- Liu, S., C. Liu., X. Huang., Y. Chai. and B. Cong. 2006. Optimization of parameters for isolation of protoplast from the Antarctic sea ice alga *Chlamydomonas* sp. ICE-L. *Journal of Applied Phycology*. 18 : 783–786.
- Liu, J., Z. Sun, H. Gerken, Z. Liu, Y. Jiang and F. Chen. 2014. *Chlorella zofingiensis* as an Alternative Microalgal Producer of Astaxanthin: Biology and Industrial Potential. *Marine Drugs*. 12 : 3491-3492
- Lu, Y., R. Kong and L. Hu. 2012. Preparation of Protoplast from *Chlorella protothecoides*. *World Journal Microbiol Biotechnology*. Springer. 28 : 1827 – 1830.
- Lynd L.R.,P.J. Weimer, W.H. Van Zyl WH and I.S. Pretorius. 2002. Microbial Cellulose Utilization : Fundamental and Biotechnology. *Microbiology and Molecular Biology Reviews*. 66(3) : 506-577.
- Mackul'ak, T., J. Prousek., P. Olejníkováa, and I. Bodik. 2010. The Using of Enzymes for Degradation of Cellulose Substrate for the Production of Biogas. *37th International Conference of SSCHE*.1(4) : 10.
- Maljopawiro, S. 2006. *Biokimia*. Fakultas Biologi. Universitas Gadjah Mada. Yogyakarta

- Mantyla, A.M, Paloheimo and P.Suominen. 1998. *Industrial Mutants and Recombinant Strains of Trichoderma reesei*. London.
- Marchetti, J., G. Bourgan, T. Jauffrais, S. Lefebvre, C. Rouxcel, B. Saint-Jean, E. Lukomska, R. Robert and J. P. Cadoret. 2013. Effects of Blue Light on the Biochemical Composition and Photosynthetic Activity of *Isochrysis* sp. (T-iso). *Journal of Applied Phycology*. 21(2) : 6
- Mollers, C.S. Zhang, and G. Wenzil. 1992. The Influence of Silver Thiosulfate on Potato Protoplast Culture. *Plant Breeding*. 108 : 12-18.
- Novozymes. 2012. *Celluclast®1.5 L*. Novozymes A/S. Denmark.
- Ozioko, P.C., Ikeyi, A.P and Ugwu,O.P.C. 2013. Review Article : Cellulases, Their Substrates, Activity and Assay Methods.*The Experiment*. 12(2) : 779
- Prentis, S. 1990. *Bioteknologi : Suatu Revolusi yang Baru*. Penerbit Erlangga. Jakarta
- Phukan, M.M., R. S, Chutia, B.K. Konwar, and R. Kataki. 2011. Microalgae *Chlorella* as A Potential Bio-Energy Feedstock. *Applied Energy*. Elsevier. Diakses 27 Desember 2016
- Purnamawati, F.S., T.R. Soeprobowati, dan M. Izzati. 2013. Pertumbuhan *Chlorella vulgaris* Beijerinck dalam Medium yang Mengandung Logam Berat Cd dan Pb Skala Laboratorium. *Seminar Nasional Biologi*. 104-116
- Purwito, A. 1999. Fusi Protoplas Intra dan Interspecies pada Tanaman Kentang. *Disertasi Program Pascasarjana*. Institut Pertanian Bogor
- Rangahau, M. K. 1999. Biotechnology in Popatoes. *Crop and Food Research*. The New Zealand Institute. New Zealand
- Richmond, A. 2004. *Handbook of Microalgal Culture : Biotechnology and Applied Phycology*. Blackwell Science, India.
- Rodrigues, M.A and E.P.S. Bon. 2011. Evaluation of *Chlorella* (Chlorophyta) as Source of Fermentable Sugars via Cell Wall Enzymatic Hydrolysis. *Enzyme Reasearch*. 1-4
- Rodrigues, M.A, R.S.S. Teixeira, V.S. Ferreira-Leitãoand and E.P.S. Bon. 2015. Untreate *Chlorella homosphaera* Biomass Allows for High Rates of Cell Wall Glucan Enzymatic Hydrolysis When Using Exoglucanase-free Cellulases. *Biotechnology for Biofuels*. 8(12) : 2-7

- Safi, C., B. Zebib., O. Merah., P.Y. Pontalier., and C.V. Garcia. 2014. Morphology, composition, production, processing and application of *Chlorella vulgaris* : A Reviews. *Renewable and Sustainable Energy Reviews*. 265 -278.
- Santoso, U. dan Nursandi, F. 2003. *Kultur Jaringan Tanaman*. Malang. UMM Press.
- Sethi, M. and E. Maeda. 1983. Studies on Wheat Protoplas, A Rapid and Large Scale Isolation Method Cell Wall Regeneration Inculture. *Japan Journal Crop Science*. 52(2) : 158 -167
- Singh, P. and P.K. Gill. 2005. Production of Inulinase : Recent Advances. *Food Technology Biotechnology*. 44(2) : 151-162.
- Srihati dan Carolina. 1994. Kualitas Algae Bersel Tunggal *Chlorella* sp. Pada Berbagai Media. *Seminar Ilmiah Hasil Penelitian dan Pengembangan Bidang Fisika Terapan*.
- Suryowinoto. 1996. *Pemuliaan Tanaman Secara Invitro*. Penerbit Kanisius. Yogyakarta
- Takebe, I.G Malchers, 1971. Regeneration of Whole Plants from Isolated Mesophyl Protoplas of Tobacco. *Natur wissenschaften*. 58 : 318 -320
- Wahyuningsih. 2008. *Pengecatan Gram*. Fakultas Pertanian Universitas Jendral Soedirman. Purwokerto.
- Wijanarka., E, Kusdiyantini., dan H, P, Kusumaningrum. 2008. Produksi Inulinase Fusan 3 Hasil Fusi Protoplas Interspesifik *Kluveromyces marxianus* dan *Torulospira pretoriensis*. *Jurnal Sains dan Matematika*. 16(2) : 88-96.
- Yang, B., J. Liu., B. Liu., P. Sun., X. Ma., Y. Jiang., D. Wei., and F. Chen. 2015. Development of A Stable Genetic System for *Chlorella vulgaris* – A Promising Green Alga for CO₂ Biomitigation. *Algal Research*. 143-141.
- Zhou, S and L.O. Ingram. 2000. Synergistic Hydrolysis of Carboxymethyl Cellulose and Acid-Swollen Cellulose by Two Endoglucanases (celz and cely) from *Erwinia chrysanthemi*. *Journal of Bacteriology*. 182(20) : 5677