

DAFTAR PUSTAKA

- Adams DJ, 2004, Fungal cell wall chitinases and glucanases, *Microbiology*, **150**: 2029 -2035.
- Arfia, P.I., 2010, *Subkloning Gen Sintetik CSF3syn (Colony Stimulating Factor-3) pada Vektor Ekspresi pGAPZα dan Transformasi Vektor Rekombinan ke dalam Pichia pastoris.*, Departemen Biologi, FMIPA, Universitas Indonesia: xiv + 88 hlm
- Baktir, A. 2012. Novel Materials for Eradication of Biofilm Extracell Matrix of Pathogenic Candida. *Journal of Materials Science and Engineering B*. David publishing company. USA. Vol. **2**, 12
- Barr, K. A., Hopkins, S. A., and Sreekrishna, K. 1992. Protocol for Efficient Secretion of HSA Developed from *Pichia pastoris*. *Pharm. Eng.* **12**, 48-51
- Berdy, J. 1980. Bleomycin-type antibiotics. In *Amino Acid and Peptide Antibiotics. Handbook of Antibiotic Compounds, IV (1)*. Edited by J. Berdy. Boca Raton, FL: CRC Press
- Brierley, R.A. 1998. Secretion of recombinant human insulin-like growth factor I (IGF-1). *Methods Mol. Biol.* **103**, 149-177.
- Brooker, R. J. 2005. *Genetics: Analysis and Principles*. 2nd Edition. McGraw-Hill Companies, Inc., Boston.
- Brown, T. A. 1987. *Gene cloning an introduction*. Van Nostrand Reinhold, Co.Ltd., Wokingham.
- Brown, T. A. 2016. *Gene cloning and DNA analysis: An introduction*. 7th Edition. Blackwell Publishing, Oxford.
- Buckholz, R. G., and Gleeson, M. A. G. (1991) *Yeast Systems for the Commercial Production of Heterologous Protein*. *Bio/Technology* **9**, 1067-1072
- Casali, N., Preston, A., 2003, *E. coli Plasmid Vectors: Methods and Application*, Totowa, N.J.: Humana Press.
- Cereghino, G.P.L., Cregg, J.M. 1999. Applications of yeast in biotechnology: protein production and genetic analysis. *Curr. Opin. Biotechnol.* **10**: 422–427.

- Cereghino, J. L., Cregg, J. M. 2000. Heterologous protein expression in the methylotrophic yeast *Pichia pastoris*. *FEMS Microbiol. Rev.* 24, 45-66
- Cregg, J.M., Madden, K.R., Barringer, K.J., Thill, G.P., Stillman, C.A. 1989. Functional characterization of the two alcohol oxidase genes from the yeast *Pichia pastoris*. *Mol. Cell. Biol.* 9: 1316–1323.
- Cregg, J.M., Barringer, K.J., Hessler, A.Y., Madden, K.R. 1985. *Pichia pastoris* as a host system for transformations. *Mol. Cell. Biol.* 5: 3376–3385.
- Cregg, J.M. and Madden, K.R. 1988. Development of the methylotrophic yeast *Pichia pastoris*, as a host system for the production of foreign proteins. *Dev. Ind. Microbiol.* 29, 33-41.
- Cregg, J.M., Vedvick, T.S., Raschke, W.C. 1993. Recent advances in the expression of foreign genes in *Pichia pastoris*. *BioTechnology* 11: 905–910.
- Cregg, J.M., Higgins, D.R. 1995. Production of foreign proteins in the yeast *Pichia pastoris*. *Can. J. Bot.* 73: 891–897.
- Chandra, J., Kuhn, D.M., Mukherjee P.K., Hoyer L.L., McCormick T., Ghannoum M.A. 2001. Biofilm Formation by the Fungal Pathogen *Candida albicans*: Development, Architecture, and Drug Resistance. *American Society for Microbiology*.
- Chandhuri, T.K., Horii, K., Yoda, T., Arai, M., Nagata, S., Terada, T.P., Uchiyama, H., Ikura, K., Tsumoto, K., Kataoka, H., Matshushima, M., Kuwajima, K., Kumagai, I. 1999. Effect of the extra N-Terminal Met. Residu on the Stability and folding of Recombinant α -lactalbumin express in *E. coli*. *J. Mol. Biol.* 285, 1179-1194.
- De Schutter, K., Yao-Cheng, L., P. Tiels, A., Van Hecke, S., Glinka, J., Weber-Lehmann, P., Rouze, Y., Van de Peer & Callewaert, N. 2009. Genome sequence of the recombinant protein production host *Pichia pastoris*. *Nat. Biotechnol.* 27: 561-569.
- Drocourt, D., T. Calmels, J.P. Reynes, M. Baron dan G. Tiraby, 1980, Cassettes of The *Streptoalloteichus hindustanus* ble gene for Transformation of Lower and Higher Eukaryotes to phleomycin Resistance. Oxford University Press 18(13): 4009
- Ellis, S. B., P. F. Brust, P. J. Koutz, A. F. Waters, M. M. Harpold, and T. R. Gingeras. 1985. Isolation of alcohol oxidase and two other methanol regulatable genes from the yeast *Pichia pastoris*. *Mol. Cell. Biol.* 5:1111-1121.

- Fairbanks, D.J. & W.R. Andersen. 1999. *Genetics: The continuity of life*. 4th ed. Wadsworth Publishing company. Minneapolis.
- Gabriel, Miroslav and Marie Kopecka, 1987, Studies on Cell Division in Regenerating Protoplasts of the Yeast *Schizosaccharomyces Japonicus*, Department of Biology, Faculty of Medicine, J. E. Purkyne' University, Czechoslovakia., **134**: 2029-2037
- Glick, B. R. & J. J. Pasternak. 2003. *Molecular biotechnology*. ASM Press, Washington
- Hawser, S.P. & Douglas L.J. 1995. Resistance of *Candida albicans* biofilms to antifungal agents in vitro. *American Society for Microbiology*.
- Higgins, S. J. & Hames, B. D. 1999. Protein Expression: a practical approach. USA: Oxford University Press.
- Hikmah, H.N., 2017, *Konstruksi Pustaka Ekspresi Metagenomik, Bakteri Dari Sistem Pencernaan Achatina fulica dan Seleksi Klon Rekombinan dengan Aktivitas B-Glukanase*, Skripsi, Program Studi S-1 Kimia, Fakultas Sains dan Teknologi, UNAIR, Surabaya
- Inoue, H., Nojima, H., dan Okayama, H., 1990, high efficiency Transformation of *Escherichia coli* with Plasmids, *Gene* **96**(1): 23-8
- I.U.B, 1992, Enzyme Nomenclature; Recommendations of the Nomenclature Committee of the International Union of Biochemistry, Academic Press, Orlando., **204**: 1-3
- Jabra-Rizk, A. M., William A. Falkler, and Timothy F. Meiller., 2004, Fungal Biofilms and Drug Resistance, *Emerging Infectious Diseases*, Dental School, University of Maryland, Baltimore, Maryland, USA., **10**: 14-19
- Kamiliyah, H. 2011. Peningkatan Daya Antifungi Ekstrak Kayu Manis (*Cinnamomum Burmannii* L.) Terhadap *Candida albicans* dengan Konsorsium Enzim Siput (*Achatina fulica*). Skripsi. Program S-1 Kimia. Universitas Airlangga. Surabaya.
- Kashyap, A., Autebert, J., Delamarche, E. dan Kaigala, G.V., 2016, Selective Local Lysis and Sampling of Live Cells for Nucleic Acid Analysis Using a Microfluidic Probe, *Scientific Reports*, **6**, 29579
- Kennedy, Suzanne & Oswald, Nick, 2011, PCR Troubleshooting and Optimization: The Essential Guide. Wymondham: Caister Academic Press

- Kirstee Martin, Barbara M. McDougall, Simon McIlroy, Jayus, Jiezhong Chen & Robert J. Seviour, 2005, Biochemistry and molecular biology of exocellular fungal β -1,3 and β -1,6 glucanase. Biotechnology Research Centre, La Trobe University, Bendigo, Victoria., **31**: 168-192
- Kurniawati, M., Halimah, N., Hudha, M.H, Sudiyono, Purkan, Sumarsih, S., Baktir, A., 2019, Constructing and Screening Beta-Glucanase Activity of Metagenomic cDNA Expression Library of Digestive Gland of *Achatina fulica*, *International Journal of Pharmaceutical Research*, **11**(1): 67-73
- Kurniawati, M., Sudiyono, Purkan, Sumarsih, S. dan Baktir, A., 2018, Metagenomic DNA Library: Exploration of Novel Genes Encoding Glycoside Hydrolases, *International Journal of Engineering & Technology*, **7**(4.7): 472 – 475
- Li, B., Cao, Y., Zhou, L., Liang C., Sun F. 2011. A novel protein expression system- PichiaPink™- and a protocol for fast and efficient recombinant protein Expression. *African Journal of Biotechnology*. **10**(83).
- Madigan M.T., Martinko J.M., Stahl D.A., Clark D.P. 2012. *Biology of Microorganism*. 13th ed. San Francisco: Pearson. P. 140-141
- McMurry J., Mary E. C., 1994, Fundamental of organic and biological Chemistry, Prentice Hall, New Jersey
- Miller, G.L., 1959, Use of dinitrosalicylic acid reagent for determination of reducing sugar, *Anal. Chem.*, **31**, 426–428.
- Nett, J., Lincoln L, Marchillo K, Massey R, Holoyda K, Hoff B, VanHandel M, Andes D., 2007, Putative role of beta-1,3 glucans in *Candida albicans* biofilm resistance. Department of Medicine, University of Wisconsin Electron Microscopy Facility, Madison., **51**: 510-520
- Nicholl, D.S.T. 2002. *An introduction to genetic engineering*. 2nd edition. Cambridge University Press, New York.
- Nobbs, A.H., Vickerman M.M., Jenkinson H.F. 2010. Heterologous Expression of *Candida albicans* Cell Wall-Associated Adhesins in *Saccharomyces cerevisiae* Reveals Differential Specificities in Adherence and Biofilm Formation and in Binding Oral *Streptococcus gordonii*. *American Society for Microbiology*.

- Perez, C., Sanchez, A., Putnam, D., Ting, D., Langer, R. dan Alonso, M.J., 2001, Poly(lactic acid)-poly(ethylene glycol) Nanoparticles as New Carriers for The Delivery of Plasmid DNA, *Journal Controlled Release*, **75**: 211 – 224
- Reese E, 1977, Degradation of polymeric carbohydrates in microbial enzyme, *Recent Advances in Phytochemistry*. Plenum, New York., **11**: 311-367
- Reese E & Mandels M, 1963, Enzymic hydrolysis of b-glucans. *Advances in Enzymic Hydrolysis of Cellulose and Related Materials*, Pergamon Press, Oxford., **45**: 197-234
- Romanos, M.A., Scorer, C.A., Clare, J.J. 1992. Foreign gene expression in yeast: a review. *Yeast* **8**: 423–488.
- Sambrook, J & D. W. Russell. 2001. *Molecular Cloning: A Laboratory Manual*. Vol 2 3rd Edition. Coldspings Harbor Laboratory Press, New York.
- Sambrook, J., E. F. Fritsch., & T. Maniatis. 1989. *Molecular cloning: A laboratory manual*. 2nd Edition. Coldspring Harbor Laboratory Press, New York.
- Shi, B., Shin, Y.K., Hassanali, A.A. dan Singer, S.J., 2017, Biomolecules at The Amorphous Silica/ Water Interface: Binding and Fluorescence Anisotropy of Peptides, *Colloids and Surfaces B: Biointerfaces*, **157**: 83-92
- Singh, M., Yadav, A., X, Ma, Dan E, Amoah, 2010, Plasmid DNA Transformation in Escherichia coli: Effetc of Heat Shock Temperature, Duration, and Cold Incubation of CaCl₂ Treated Cells. *International Journal of Biotechnology and Biochemistry*. **6**(4): 561-568
- Skoko, N. B. Argamante, N.K. Grujicic, S.G. Tisminetzky, V. Glisin & G. Ljubijankic. 2003. Expression and characterization of human interferon-β₁ in the methylotrophic yeast *Pichia pastoris*. *Biotechnology Applied Biochemistry* **38**: 257-265
- Stratton, J., Chiruvolu, V. and Meagher, M. 1998. High cell-density fermentation. *Methods Mol. Biol.* **103**, 107[^]120.
- Suga, M., Hatakeyama, T., 2005, A rapid and simple procedure for high-efficiency lithium acetate transformation of cryopreserved *Schizosaccharomyces pombe* cells, *Wiley InterScience* **22**: 799-804
- Suh, S. O., M. Blackwell, C. P. Kurtzman & M. Lachance. 2006. Phylogenetics of *Saccharomycetales*, the ascomycete. *Mycologia* **98**(6): 1006-1017

- Tan, S.C. dan Yiap, B.C., 2009, DNA, RNA, and Protein Extraction: The Past and The Present, *Journal of Biomedicine and Biotechnology*, 1-10
- Takano, K., Tsuchimora, K., Yamagata, Y., Yutani, K. 1999. Effect of foreign N-terminal residues on the conformational stability of human lysozyme. *Eur. J. Biochem.* 266, 675-682.
- Tschopp, J. F., Brust, P. F., Cregg, J. M., Stillman, C., and Gingeras, T. R. (1987) Expression of the *lacZ* Gene from Two Methanol Regulated Promoters in *Pichia pastoris*. *Nucleic Acids Res.* 15, 3859-3876
- Wegner, G.H., Harder, W., 1987. Methylophilic yeasts—1986. *Antonie Van Leeuwenhoek.* 53, 29–36.
- Wong, D. W. S. 2006. The ABC of Gene Cloning. International Thomson Publishing, New York.
- Wu, S. & Letchworth, G. J., 2004, High efficiency transformation by electroporation of *Pichia pastoris* pretreated with lithium acetate and dithiothreitol, *Biotechniques* 36: 152-154