

## DAFTAR PUSTAKA

- Almeida Cynthia Layse F., Heloína F., Gedson L., Camila M., Narlize L., Petrônio A., Luis R., Maria S., José B and Leônia B., 2011, *Bioactives from Marine Algae of the Genus Gracilaria*, International Journal of Molecular Science, **12**:4550-4573, 4550-4573.
- Arum, Nira Ambar, 2018, *Perunutaan dan Uji Ekspresi Gen Penyandi  $\beta$ -Glukanase dari Pustaka Ekspresi Metagenom Sistem Pencernaan *Achantina fulica**, Tesis, Universitas Airlangga Surabaya.
- Aslan, LM., 1991, *Budidaya Rumput Laut*, Penerbit Kanisius, Yogyakarta.
- Atmaja, WS., Kadi A, Sulistio, Satari R., 1996, *Pengenalan Jenis-Jenis Rumput Laut Indonesia*. Pusat Penelitian dan Pengembangan Oseonologi LIPI, Jakarta
- Baktir, A., 2017, *DNA : Struktur dan Fungsi*, Airlangga University Press, Surabaya.
- Barbayron, Tristan, Gurvan /Michel, Philippe Potin, Bernard Henrissat and Bernard Kloareg, 2000,  *$\iota$ -Carrageenases Constitute a Novel Family of Glicoside Hydrolases, Unrelated to That of  $\kappa$ -Carrageenases*, Journal of Biological Chemistry, **275**: 35499-35505.
- Dale, JW., Park SF., 2010, *Molecular Genetics of Bacteria*, John Willey&Sons, Lts., West Sussex.
- Doty, MS, 1987. *The Production and Uses of Eucheuma : Case Studies of Seven Commercial Seaweed Resouces*, FAO Fish Technology, Paper 281. Rome
- Bettelheim & Landesberg, 2007, *Laboratory Experiments for Organic and Biochemistry*, Saunders College Publishing, California
- Bixler, Harris J., Hans Porse, 2011, *A Decade of Change in the Seaweed Hydrocolloids Industry*, Journal of Applied Phycology, **23**: 321-335

- Brown, T., 2010, *Gene Cloning and DNA Analysis : An Introduction, 5th ed*, Backwell Publishing Asia Pty Ltd., Australia
- Campo, Vanessa., Daniel Fabio K., Dilson Braz S., Ivone Carvalho, 2009, *Carrageenans : Biological Properties, Chemical Modifications and Structural Analysis – A review*, Carbohydrate Polymers, **77(2)**:167-180
- Cardoso, Alexander M., et al, *Metagenomic Analysis of the Microbiota from the Crop of an Invasive Snail Reveals a Rich Reservoir of Novel Genes*, PLoS ONE, **7(11)**: 1-13
- Chamhan, Prakarm Singh, Arunika Saxena, 2016, *Bacterial Carrageens : an Overview of production and biotechnological Application*, 3 Biotech, **6**:146
- Chui, Hong Li., Yuxin Peng, Bowen Zhao, Yuqing Liu, Fengjia Chen, Haige Wu, Ziang Yao, 2017, *Cloning, Identification and Characterization of a Novel k-carrageenase from Marine Bacterium Cellulophage Lytica Strain N5-2*, Internatinal Journal of Biological Macromolecular, **S0141-8130(17)** : 17683-3.
- Corkill, G., Rapley, R., 2008, *The Manipulation of Nucleic Acids : Basic Tools and Techniques in Molecular Biomethods Handbook Second Edition*, Humana Press, USA.
- Dolphin, W., D., David Vlec, James T. Colbert, Linda M.W., 2008, *Biological Investigation : Form, Function, Diversity and Procees*, Mc Grown Hill, USA
- Faulkner DJ, 2002, *Marine Natural Product*, Nat. Prod. Rep. **19**: 1-48
- Herdyastuti N, Raharjo TJ, Mudasir, Matsjeh, S, 2009, *Chitinase and Chitinolytic Microorganism: Isolation, Characterization and Potential*, Indo. J Chem, **9(1)**: 37-47.
- HL, Steele, Jaeger KE., Daniel R., Streit WR., 2009, *Advances in Recovery of Novel Biocatalysis from Metagenomes*, J Mol Microbiol Biotechnol, **16(1-2)**: 25-37.

- Hikmah, Harini Nur, 2017, *Konstruksi Pustaka Eksresi Metagenomik Bakteri dari Sistem Pencernaan Achantina fulica dan Seleksi Klon Rekombinan dengan Aktivitas  $\beta$ -Glukanase*, Skripsi, Universitas Airlangga Surabaya
- Jungang, Li., Zhang KeGui, Han Wenjun, 2010, *Cloning and Biochemical Characterization of a Novel Lipolytic Gene from Activated Sludge Metagenome, and Its Gene Product*, Microb Cell Fact, **9**:83
- K Lammle, Zipper H, Breuer M., Haeuer B, Buta C, Brunner H, Rupp S, 2007, *Identification of novel Enzymes with different hydrolytic Activities by Metagenome Expression Cloning*, J Biotechnol, **20**: 575-92
- Kawroe M, I Pratiwi, A Sunudin, 2017, *Isolation and Characterization of Marine Bacteria from Macroalgae Gracilaria salicornia and Gelidium latifolium on agarolitic activity for Bioethanol Production*, IOP Conf. Ser. : Earth Environ. Sci **65**: 12-25
- Khosravina, H & Ramesha, K., P., 2007, *Influence of EDTA and Magnesium on DNA Extraction from Blood Samples and Specificity of Polymerase Chain Reaction*, African Journal of Biotechnology **6**(3): 184-187
- Kim, Se-Won., Yong-Woon Kim, Chae-Hwan Hong, In-Woong Lyo, Ho-Ding Lim, Geun-Joong Kim, Hyun-Jae Shin, 2017, *Recombinant Agarase Increases the Production of Reducing Sugars from HCl-treated Gracilaria verrucosa, a red algae*, Algal Research, **31**: 517-524.
- Knudsen, Nanna R., Marcel Tutor A., Anne S. Meyer, 2015, *Seaweed Hydrocolloid Production : An Update on Enzyme Assisted Extraction and Modification Technologies*, Mar. Drugs, **13**: 3340-3359.
- Krap, Gerald, 2008, *Cell and Molecular Biology : Study Guide : Concept and Experiments*, John Wiley and Son, Ltd., New York, USA.

- Kurniawati, Maris, 2019, *Kloning Gen Penyandi Enzim 1,3-β-Glukanase Melalui Pendekatan Pustaka Metagenomik cDNA dari Digestive Gland Achantina Fulica sebagai Kandidat Antibiofilm Kandida*, Disertasi, Universitas Airlangga Surabaya.
- Ma Su, Gaofei Duan, Wwengang Chai, Cunliang Geng, Yulong Tang, Lushan Wong, Frederic Le Sourd, Gurvan Michel, Wengong Yu, Feng Han, 2013, *Purification, Cloning, Characterization and Essential Amino Acid Residues Analysis of a New ι-Carrageenase from Cellulophage SP.QY3*, PLOS ONE, **8**(5):e64666.
- Michel, Gurvan, Laurent Chantalat, Eric Fanchon, Bernard Henrissat, Bernard Kloareg, Otto Dideberg, 2001, *The ι-Carrageenases of Alteromonas fortis*, The Journal of Biological Chemistry, **276**:40202-40209
- Nam, Bo-Hye, Jisung J., Kelsey C., Young O., Jung Y., Hawsun S., Sook H., Heebal K., Woori K., 2018, *Microbial Community and Function Associated with Digestion of Algal Polysaccharides in the Visceral Tract of Haliotis discus hanna : Insight Metagenome and Metatranscriptome Analysis*, PLOS ONE **13**(10): e0205594
- Necas J, Bartosikova L, 2013, *Carrageenan: a review*, Vet Med **58**(4):187–205
- Newman, David J., Gordon M. Cragg, Kenneth M. Snader, 2003, *Natural Product as Sources of New Drugs Over the Period 1981-2002*, J. Nat Prod, **66**: 1022-1037
- Old RW, Primrose SB., 2003, *Prinsip-prinsip Manipulasi Gen: Suatu Pengantar Rekayasa Genetika*, Susilo H, Corebima AD, penerjemah; Subiyanto, editor, UI Press, Jakarta, Terjemahan dari: Principles of Gene Manipulation: An Introduction to Genetic Engineering
- Rejeki, Sri, Restiana W Ariyati, Lestari Lakhsmi Widowati, Roel H. Bosma, 2017, *The Effect of Three Cultivation Methods and Two Seeding Types on Growth, Agar*

- Content and Gel Strength of Gracilaria verrucosa*, Egyptian Journal of Aquatic Research, **44**: 65-70
- Rianur, Riswanda Verabella, 2019, *Penapisan dan Karakterisasi Enzim Sulfatase dari Pustaka Metagenom Prokariot dari Sistem Pencernaan Achantina fulica*, Skripsi, Universitas Airlangga Surabaya.
- Sandbrook, J., D.W. Russel, 2002, *Molecular Cloning: A laboratory manual*, Cold Spring Harbor Lab Press 1-3, USA
- Skriptsova, A.V., T.V. Titlyanova, E.A. Titylanov, 2001, *Red Algae of the Genus Gracilaria in the South of the Russian Far East*, Russian Journal of Marine Biology, **27**.
- Vequero Garcia, Lopez Alonso M, Hayes M., 2016, *Assesment of the Functional Properties of Protein Extracted from the Brown Seaweed Hiamnthalia Elogata (Linnaeus) S. F. Gray*, Pub Med, **Pt3**: 971-978.
- Wibowo, M.S., 2011, *Elektroforesis*, Sekolah Farmasi ITB, Bandung
- Xiao A, Xu C, Lin Y, Ni H, Zhu Y, Cai H, 2016, *Preparation and Characterization of i-carrageenase Immobilized Onto Magnetic Iron Oxide Nanoparticles*. Electron J Biotechnol **19**:1-7.
- Yang, L, Lu Q, Brodie J., 2017, *A Review of the Bladed Bangiales (Rhodophyta) in China : History, Culture and Taxonomy, 2017*, European Journal of Phycology, **52**: 1-3.
- Yang, Yufeng., Zhaoyang Chai, Qing Wang, Weizhou Chen, Zhili He, 2015, Shijun Jiang, *Cultivation of Seaweed Gracilaria in Chinese Coastal Waters and Its Contribution to Enviromental Improvements*, Algal Research, **19**: 236-244.

Yao Z, Wang F, Gao Z, Jin L, Wu H, 2013, *Characterization of a i-Carrageenase from Marine Cellulophaga Lytica Strain N5-2 and Analysis of Its Degradation Products*. *Int J Mol Sci*, **14**:24592–24602