

DAFTAR PUSTAKA

- Anonim. (2020, September 9). *Plantix*. Diambil kembali dari Plantix: <http://plantix.net/en/library/plant-diseases>
- Ariffin, H., Abdullah, N., Kalsom, M., Shirai, Y., & Hassan, M. (2006). Production and characterisation of cellulase by *Bacillus pumilus* EB3. *International Journal Engine Technology* 3, 47-53.
- Baharuddin, A., Mohamad, N., Lim, S., Mohd, N., Suraini, A., Nor, A., Yushihito, S. (2010). Isolastion and Characterization of Thermophilic Cellulase-Producing Bacteria from Empty Bunches-Palm Oil Mill Effluent Compost. *American Journal of Applied Science*. vol.7, no. 1, 56-62.
- Baharuddin, M., Ahyar Ahma, N. L., & Zenta, F. (2016). Cellulase Enzyme Activity of *Bacillus Circulans* from Larvae *Cossus Cossus* in Lignocellulosic Substrat. *American Journal of Biomedical and Life Sciences*, 21-25.
- Baharuddin, M., Patong, A. R., Ahmad, A., & Nafie, N. L. (2014). Aktivitas Enzim Selulase Kasar dari Isolat Bakteri Larva *Cossus cossus* dalam Hidrolisis Jerami Padi. *Jurnal Kimia Valensi*, 128-133.
- Barbosa, K. L., Malta, V. R., Machado, S. S., Junior, G. A., Silva, A. P., Almeida, R. M., & Luz, J. M. (2020). Bacterial cellulase from the intestinal tract of the sugarcane borer. *International Journal of Biological Macromolecules*.
- Biorata, A. M. (2012). *Optimasi Produksi Selulase dari Bacillus sp. BPPT CC RK 2 Menggunakan Metode Respon Permukaan dengan Variasi Rasio C/N dan Waktu Fermentasi*. Depok: Universitas Indonesia.
- Biswas, S., Paul, D., & Bhattacharjee, A. (2019). Isolation and identification of cellulose degrading bacteria from gut of two herbivorous pest larvae. *The NEHU Journal Vol. XVII*, 50-59.
- Damanhuri, Enri, & Padmi, D. T. (2008). *Diktat Kuliah Pengelolaan Sampah TL-3104*. Bandung: Program Studi Teknik Lingkungan ITB.
- Dantur, K. I., Enrique, R., Welin, B., & Castagnaro, A. P. (2015). Isolation of cellulolytic bacteria from the intestine of *Diatraea saccharalis* larvae and evaluation of their capacity to degrade sugarcane biomass. *AMB expressa Springer Open Journal*, 1-11.
- Dar, M. A., Pawar, K. D., & Pandit, R. S. (2014). Prospecting the gut fluid of giant African land snail *Achatina fulica* for cellulose degrading bacteria. *International Biodeterioration & Biodegradation*, 73-80.
- Dar, M. A., Pawar, K. D., & Pandit, R. S. (2018A). Prospecting the gut fluid of giant African land snail, *Achatina fulica* for cellulose degrading bacteria. *International Biodeterioration & Biodegradation*, 103-111.

- Dar, M. A., Shaikh, A. A., Pawar, K. D., & Pandit, R. S. (2018B). Exploring the gut of *Helicoverpa armigera* for cellulose degrading bacteria and evaluation of a potential strain for lignocellulosic biomass deconstruction. *Process Biochemistry*.
- Delhoumi, M., Catania, V., Zaabar, W., Tolone, M., Quatrini, P., & Achouri, M. S. (2020). The gut microbiota structure of the terrestrial isopod *Porcellionides pruinosus* (Isopoda: Oniscidea). *The European Zoological Journal*, 357-368.
- Dwismar, R., Baharuddin, M., & HS, S. (2013). Isolasi dan Iji Aktivitas Enzim Selulase dari Bakteri Simbion Larva Kupu-kupu Famili: Cossidae terhadap Variasi Lama Inkubasi. *Al-Kimia*, 76-85.
- Ferbiyanto, A., Rusmana, I., & Raffiudin, R. (2015). Characterization and Identification of Cellulolytic Bacteria from gut of Worker *Macrotermes gilvus*. *HAYATI Journal of Biosciences*, 197-200.
- Galbe, M., & Zacchi, G. (2007). Pretreatment of Lignocellulosic Materials for Efficient Bioethanol Production. *Adv Biochem Engin/Biotechnol*, 108, 41-65.
- González-Escobar, J. L., Pereyra-Camacho, M. A., Léon-Rodríguez, A. D., Grajales-Lagunes, A., Reyes-Agüero, A., Chagolla-López, A., & Rosa, A. P. (2020). Biodegradation of recalcitrant compounds and phthalates by culturable bacteria isolated from *Liometopum apiculatum* microbiota. *World Journal of Microbiology and Biotechnology*, 1-13.
- Gupta, P., Samant, K., & Sahu, A. (2012). Isolation of Cellulose-Degrading Bacteria and Determination of Their Cellulolytic Potential. *International Journal of Microbiology*, 1-5.
- Hames, D., & Hooper, N. (2005). *Biochemistry*. Ed ke-3. New York: Taylor & Francis Group.
- Hatefi, A., Makhdoomi, A., Asoode, A., & Mirshamsi, O. (2015). Characterization of a bi-functional cellulase produced by a gut. *International Journal of Biological Macromolecules*, 158-164.
- Howard R.L., A. E. (2003). Lignocellulose biotechnology: issues of bioconversion and enzyme production . *African Journal of Biotechnology Vol. 2 (12)*, 602-619.
- Hu, X., Yu, J., Wang, C., & Chen, H. (2014). Cellulolytic Bacteria Associated with the Gut of *Dendroctonus armandi* Larvae (Coleoptera: Curculionidae: Scolytinae). *Forests Journal*, 455-465.
- Huang, S., Sheng, P., & Zang, H. (2012). Isolation and Identification of Cellulolytic Bacteria from the Gut of *Holotrichia parallella* Larvae (Coleoptera: Scarabaeidae). *International Journal of Molecular Sciences*, 2563-2577.

- Husamah, Rahardjanto, A., & Hudha, A. M. (2017). *Ekologi Hewan Tanah (Teori dan Praktik)*. Malang: UMM Press.
- Imran, M., Saida, B., Ghadi, S. C., Verma, P., & Shouche, Y. S. (2016). The gut-associated Klebsiella sp. of the apple snail produces multiple polysaccharide degrading enzymes. *Current Science, Vol. 110, NO. 11*, 2179-2172.
- Janatunaim, R. Z., Wijaya, C. Y., Azizah, A. R., Ramadhani, E., Priyambada, F., & Purwestri, Y. A. (2015). Characterization of Cellulase in the Cellulolytic Bacteria of Termites (Order: Isoptera) as Composting Accelerato. *The 12th Hokkaido Indonesian Student Association Scientific Meeting (HISAS 12) Vol. XII*. Hokkaido: Hokkaido University.
- Javaheri-Kermani, M., & Asoodeh, A. (2019). A novel beta-1,4 glucanase produced by symbiotic *Bacillus* sp. CF96 isolated from termite (*Anacanthotermes*). *International Journal of Biological Macromolecules*, 752-759.
- Kotchoni SO, G. E. (2006). Purification and biochemical characterization of carboxymethyl cellulase (CMCase) from a catabolite repression insensitive mutant of *Bacillus pumilus*. *Int J Agric Biol* 8, 286-292.
- Lehninger. (1997). *Dasar-dasar Biokimia Jilid 3. Penerjemah M Thenawijaya* . Jakarta: Erlangga.
- Liang, X., Fu, Y., & Liu, H. (2015). Isolation and characterization of enzyme-producing bacteria of the silkworm larval gut in bioregenerative life support system. *Acta Astronautica*, 1-16.
- Louime C, A. M. (2006). Location, formation and biosynthetic regulation of cellulases in the gliding bacteria *Cytophaga hutchinsonii*. *Int J Mol Sci* 7, 1-11.
- Manfredi, A. P., Perotti, N. I., & Martinez, M. A. (2015). Cellulolytic Bacteria Associated with the Gut of *Dendroctonus armandi* Larvae (Coleoptera: Curculionidae: Scolytinae). *Journal of Basic Microbiology*, 1384–1393.
- Maswati, B., Abdul, R. P., Ahyar, A., & Nursiah, L. N. (2014). Aktivitas Enzim Selulase Kasar dari Isolat Bakteri Larva *Cossus cossus* dalam Hidrolisis Jerami Padi . *Jurnal Kimia Valensi Vol. 4 No. 2, ,* 128-133.
- Moni, B. P., Protim, S. S., Kumar, N. P., Sakshi, G., Sabtharishi, S., Devid, K., & Kumar, G. D. (2018). Optimization and characterization of extracellular cellulase produced by *Bacillus pumilus* MGB05 isolated from midgut of muga silkworm (*Antheraea assamensis* Helfer). *Journal of Asia-Pacific Entomology*.
- Muchtadi, D., Palupi, & Astawan, M. (1992). *Enzim dalam Industri Pangan*. Bogor: PAU Pangan dan Gizi. Bogor: Institut Pertanian Bogor.
- Ni'matzahroh, Trikurniadewi, N., Ibrahim, S. N., Abidin, A. Z., Khiftiyah, A. M., Sari, S. K., Maghfirah, H. L. (2020). Isolation and Characterization of

- Cockroach Endosymbiont Bacteria with Potential to Produce Hydrolytic Enzyme of Organic Material. *Ecology, Enviroment, and Conservation Journal*, 118-125.
- Permana, E. (2019, January 24). *Indonesia hasilkan 67 juta ton sampah pada 2019*. Diambil kembali dari Anadolu Agency: www.aa.com.tr
- Pinheiro, G. L., Correa, R. F., Cunha, R. S., Cardoso, A. M., Chaia, C., Clementino, M. M., Frasés, S. (2015). Isolation of aerobic cultivable cellulolytic bacteria from different regions of the gastrointestinal tract of giant land snail *Achatina fulica*. *Frontiers in Microbiology*, 1-15.
- Pradana, M. G. (2018). *Deteksi dan Keragaman Genetik Bakteri Endosimbion Wolbachia pada Beberapa Serangga Parasitoid*. Bogor: Institut Pertanian Bogor.
- Prasad, R. K., Chatterje, S., Mazumder, P. B., Sharma, S., Datta, S., Vairale, M. G., & Dwivedi, S. K. (2019). Study on cellulase (B-1,4-endoglucanase) activity of gut bacteria of *Sitophilus oryzae* in cellulosic waste biodegradation. *Bioresource Technology Reports*, 1-7.
- Revathy, K., & Pandiarajan, J. (2019). Cellulolytic potential of gut bacterial biomass in silkworm *Bombyx mori*. L. *Ecological Genetics and Genomics*.
- Rudiansyah, D., Rahmawati, & Rafdinal. (2017). Eksplorasi Bakteri Selulolitik dari Tanah Hutan Mangrove Peniti, Kecamatan Segedong, Kabupaten Mempawah. *Protobiont Vol. 6 (3)*, 255-262.
- Sari, R. F. (2010). *Optimasi Aktivitas Selulase Ekstraseluler dari Isolat Bakteri RF-10*. Bogor: Institut Pertanian Bogor.
- Sari, S. L., Pangastuti, A., Susilowati, A., Purwoko, T., Mahajoeno, E., Hidayat, W., Anitasari, R. (2016). Cellulolytic and hemicellulolytic bacteria from the gut of *Oryctes rhinoceros* larvae. *Biodiversitas*.
- Shankar, T., Mariappan, V., & Isaiarasu, L. (2011). Screening Cellulolytic Bacteria from the Mid-Gut of the Popular. *World Journal of Zoology*, 142-148.
- Sharma, S., Chatterjee, S., Datta, S., Prasad, R. K., Angkita Sharma, D. D., Vairale, M. G., & Veer, V. (2015). Isolation and Characterization of Cellulose Degrading Bacteria of Termite Gut from North Eastern Region of India. *South Asian Journal of Experimental Biology*, 283-290.
- Sheng, P., Huang, S., Wang, Q., Wang, A., & Zhang, H. (2016). Isolation, Screening, and Optimization of the Fermentation Conditions of Highly Cellulolytic Bacteria from the Hindgut of *Holotrichia parallela* Larvae (Coleoptera: Scarabaeidae). *Applied Biochemistry and Biotechnology*, 270-284.

- Shil, R. K., Mojumder, S., Sadida, F. F., & Uddin, M. S. (2014). Isolation and Identification of Cellulolytic Bacteria from the Gut of Three Phytophagous Insect Species. *Brazilian Archives of Biology and Technology*, 927-932.
- Suin, N. (1997). *Ekologi Hewan Tanah*. Jakarta: Bumi Aksara.
- Sukumaran, R. K., Singhania, R. R., Mathew, G. M., & Pandey, A. (2009). Cellulase Production Using Biomass Feed Stock and Its Application in Lignocellulose Saccharification for Bio-ethanol Production . *Renewable Energy*, 34(2), 421-424.
- Supriyatna, A., & Ukit. (2016). Screening and Isolation of Cellulolytic Bacteria from Gut of Black Soldier Flays Larvae (*Hermetia illucens*) Feeding with Rice Straw. *Journal of Biology & Biology Education*, 314-320.
- Sutedjo, M. (1996). *Mikrobiologi Tanah*. Jakarta: PT. Rineka Jaya.
- Syam, K. A. (2008). *Optimasi Produksi dan Aktivitas Enzim Selulase dari Mikrob Selulolitik Asal Rayap*. Bogor: Institut Pertanian Bogor.
- Victor, T., & Ogbe, B. (2003). Cellulase Production by *Aspergillus flavus* Linn Issolate NSPR 101 fermented in sawdust , bagasse and corncob. *Journal of Biotechnology*, 2(june), 150-152.
- Yoo, J. (2004). Molecular cloning and characterization of CMCCase gene (celC) from *Salmonella typhimurium* UR. *J Microbiol* 42, 205-210.
- Zhang, Y., Himmel, M., & Mielenz, J. (2006). Outlook for cellulase improvement: screening and selection strategies. *Outlook for cellulase improvement: screening and selection strategies*, 452-481.