

DAFTAR PUSTAKA

- Alikhan, N. F., Petty, N. K., Zakour, N. L. B. & Beatson, S. A. 2011. BLAST ring image generator (BRIG): simple prokaryote genome comparisons. *BMC Genomics*, 12(402): 1 – 10.
- Ayala, F. R., Bauman, C., Cogliati, S., Leñini, C., Bartolini, M. & Grau, R. 2017. Microbial flora, probiotics, *Bacillus subtilis* and the search for a long and healthy human longevity. *Microb Cell*, 4(4): 133 – 136.
- Aziz, R. K., Bartels, D., Best, A. A., DeJongh, M., Disz T., Edwards, R. A., Formsma, K., Gerdes, S., Glass, E. M., Kubal, M., Meyer, F., Olsen, G. J., Olson, R., Osterman, A. L., Overbeek, R. A., McNeil, L. K., Paarmann, D., Paczian, T., Parrello, B., Pusch, G. D., Reich, C., Stevens, R., Vassieva, O., Vonstein, V., Wilke, A. & Zagnitko, O. 2008. The RAST server: Rapid annotation using subsystems technology. *BMC Genomics*, 9(75): 1 – 15.
- Bankevich, A., Nurk, S., Antipov, D., Gurevich, A. A., Dvorkin, M., Kulikov, A. S., Lesin, V. M., Nikolenko, S. I., Pham, S., Prjibelski, A. D., Pyshkin, A. V., Sirotnik, A. V., Vyahhi, N., Tesler, G., Alekseyev, M. A. & Pevzner, P. A. 2012. SPAdes: A new genome assembly algorithm and its applications to single-cell sequencing. *Journal of Computational Biology*, 19(5): 455 – 477.
- Bioinformatics. Retrieved from: <https://www.bioinformatics.babraham.ac.uk/projects/fastqc/Help/3%20Analysis%20Modules/12%20Per%20Tile%20Sequence%20Quality.html> (diakses pada 22 Juni 2020)
- Bolger, A. M., Lohse, M. & Usadel, B. 2014. Trimmomatic: a flexible trimmer for illumine sequence data. *Bioinformatics*, 30(15): 2114 – 2120.
- Carver, T., Berriman, M., Tivey, A., Patel, C., Böhme, U., Barrell, B. G., Parkhill, J. & Rajandream, M. A. 2008. Artemis and ACT: viewing, annotating and comparing sequences stored in a relational database. *Bioinformatics*, 24(3): 2672 – 2676.
- Darling, A. C. E., Mau, B., Blattner, F. R. & Perna, N. T. 2004. Mauve: Multiple alignment of conserved genomic sequence with rearrangements. *Genome Research*, 14: 1394 – 1403.
- Djaenuddin, N. & Muis, A. 2015. Karakteristik bakteri antagonis *Bacillus subtilis* dan potensinya sebagai agens pengendali hayati penyakit tanaman. *Prosiding Seminar Nasional Serealia*, 489 – 494.
- Earl, A. M., Losick, R. & Kolter, R. 2008. Ecology and genomic of *Bacillus subtilis*. *Trends Microbiol*, 16(6): 1 – 11.
- Edi. 2017. Bioinformatika: Komputer + Statistika + Matematika + Biologi. *Jurnal TIMES*, VI(1): 23 – 25.

- Ekblom, R. & Wolf, J. B. W. 2014. A field guide to whole-genome sequencing, assembly and annotation. *Evolutionary Application*, 1026 – 1042.
- Elvina. 2019. *Potensi isolat Bacillus sp. sebagai agen fibrinolitik dan antitrombotik*. Bachelor thesis, Universitas Pelita Harapan.
- FastQC manual. Retrieved from: https://dnacore.missouri.edu/PDF/FastQC_Manual.pdf (diakses pada 22 Juni 2020)
- Fredrik, M. 2019. *Identifikasi gen dan karakterisasi enzim α-amilase dari bacillus subtilis ifp1.1*. Bachelor thesis, Universitas Pelita Harapan.
- Härtig, E. & Jahn, D. 2012. Chapter Five – Regulation of the Anaerobic Metabolism in *Bacillus subtilis*. *Advances in Microbial Physiology*, 6: 195 – 216. Retrieved from ScienceDirect: <https://www.sciencedirect.com/science/article/pii/B9780123944238000056> (18 Agustus 2020).
- Hawkins, G. A. 2017. Chapter 5 – analysis of human genetic variations using DNA sequencing. *Basic Science methods for Clinical Researchers*. pp. 77 – 98. Retrieved from ScienceDirect: <https://www.sciencedirect.com/science/article/pii/B9780128030776000059> (5 September 2020).
- Horiike, T. 2016. An introduction to molecular phylogenetic analysis. *Review in Agricultural Science*, 4: 36 – 45.
- Hsueh, Y. H., Huang, K. Y., Kunene, S. C. & Lee, T. Y. 2017. Poly-γ-glutamic acid synthesis, gene regulation, phylogenetic relationship, and role in fermentation. *International Journal of Molecular Sciences*, 18(12): 1 – 20.
- John, M. & Georrge, J. J. 2018. Tools for sequencing assembly and annotation. *Proceedings of 10th National Science Symposium on Recent Trens in Science and Thecnology*, 87 – 96.
- Kambourova, M., Tangney, M. & Priest, F. G. 2001. Regulation of polyglutamic acid synthesis by glutamate in *Bacillus licheniformis* and *Bacillus subtilis*. *Applied and Environmental Microbiology*, 67: 1004 – 1007.
- Kubo, Y., Rooney, A. P., Tsukakoshi, Y., Nakagawa, R., Hasegawa, H. & Kimura, K. 2011. Phylogenetic analysis of *Bacillus subtilis* strains applicable to natto (fermented soybean) production. *Applied and Environmental Microbiology*, 77(18): 6463 – 6469.
- Li, S. W., Liu, M. Y. & Yang, R. Q. 2019. Comparative genome characterization of a petroleum-degrading *Bacillus subtilis* strain DM2. *International Journal of Genomics*, 2019: 1 – 16.
- Luo, Z., Guo, Y., Liu, J., Qiu, H., Zhao, M., Zuo, W. & Li, S. 2016. Microbial synthesis of poly-γ-glutamic acid: current progress, challenges, and future perspectives. *Biotechol Biofuels*, 9(134): 1 – 12.

- Martinez, R. M. 2013. *Bacillus subtilis*. Brenner's Encyclopedia of Genetics, 2nd ed. Hal. 246 – 248. Retrieved from ScienceDirect: <https://www.sciencedirect.com/science/article/pii/B978012374984000125> X (18 Agustus 2020).
- Najar, I. N. & Das, S. 2015. Poly-glutamic acid (PGA) – structure, synthesis, genomic organization and its application: a review. *International Journal of Pharmaceutical Science and Research*, 6(6): 2258 – 2280.
- Newell, P. D., Fricker, A. D., Roco, C. A., Chandrangsu, P. & Merkel, S. M. 2013. A small-group activity introducing the use and interpretation of BLAST. *J Microbiol Biol Educ*, 14(2): 238 – 243.
- Nguyen, S. L. T., Inaoka, T. & Kimura, K. 2018. Poly- γ -glutamic acid production by *Bacillus subtilis* (natto) under high salt conditions. *JARQ*, 52(3): 249 – 253.
- QC Fail: Sequencing. Retrieved from: <https://sequencing.qcfail.com/articles/position-specific-failures-of-flowcells/> (diakses pada 22 Juni 2020).
- Sabooowala, H. K. 2010. *Understanding the Impact of Gene Mutation on Health & Disease. An Overview*. Mumbai: Dr. H. K. Sabooowala. pp. 14 – 15.
- Stanley, N. R. & Lazazzera, B. A. 2005. Defining the genetic differences between wild and domestic strains of *Bacillus subtilis* that affect poly- γ -DL-glutamic acid production and biofilm formation. *Molecular Microbiology*, 57(4): 1143 – 1158.
- Sukmawati, N. M. S. 2015. Bioinformatika. Bahan ajar, Universitas Udayana. pp.3 – 5, 7.
- Tan, S., Meng, Y., Su, A., Zhang, C. & Ren, Y. 2016. Draft genome sequence of *Bacillus subtilis* subsp. natto strain CGMCC 2108, a high producer of poly- γ -glutamic acid. *Genome Announcements*, 4(3): 1 – 2.
- Yin, R., Kwoh, C. K. & Zheng, J. 2019. Whole genome sequencing analysis. *Encyclopedia of Bioinformatics and Computational Biology*, 3: 176 – 183.