

## DAFTAR PUSTAKA

- Ansari, S., Gautam, R., Shrestha, S., Ansari, S. R., & Subedi, S. N. (2016). Risk factors assessment for nasal colonization of *Staphylococcus aureus* and its methicillin resistant strains among pre - clinical medical students of Nepal. *BMC Research Notes*, 1–8. <https://doi.org/10.1186/s13104-016-2021-7>
- Castro, J. F., Razmilic, V., Gomez-Escribano, J. P., Andrews, B., Asenjo, J. A., & Bibb, M. J. (2015). Identification and heterologous expression of the chaxamycin biosynthesis gene cluster from *Streptomyces leeuwenhoekii*. *Appl. Environ. Microbiol.* 81, 5820–5831. doi: 10.1128/AEM.01039-15
- Chino, M., Nishikawa, K., Yamada, A., Ohsono, M., Sawa, T., Hanaoka, F., & Takeuchi, T. (1998). Effect of a novel antibiotic, heliquinomycin, on DNA helicase and cell growth. *Journal of Antibiotics*, 51(5), 480–486. <https://doi.org/10.7164/antibiotics.51.480>
- Cosconati, S., Forli, S., Perryman, A. L., Harris, R., Goodsell, D. S., & Olson, A. J. (2010). Virtual screening with AutoDock: Theory and practice. *Expert Opinion on Drug Discovery*, 5(6), 597–607. <https://doi.org/10.1517/17460441.2010.484460>
- Dassault Systèmes BIOVIA, [Discovery Studio], [version 19.1.0.18287], San Diego: Dassault Systèmes, [2019]
- Dassault Systèmes ChemAxon, [Marvin Sketch], [Versio 20.3.0], Hongaria: Dassault Systèmes, [2019]
- Duplessis, C., & Crum-Cianflone, N. F. (2011). Ceftaroline: A New Cephalosporin with Activity against MRSA. *Clin. Med. Rev. Ther.*, 3, 2466. <https://doi.org/10.4137/CMRT.S1637.Ceftaroline>
- EMBL-EBI, (2020), The Uropean Molecular Biology Laboratory, UK, <https://www.ebi.ac.uk/services>
- Fishovitz, J., Hermoso, J, A., Chang, M., & Mobashery, S. (2014). Penicillin-binding protein 2a of methicillin-resistant *Staphylococcus aureus*. *IUBMB Life*, 66(8), 572–577. <https://doi.org/10.1002/iub.1289>
- Fishovitz, J., Rojas-Altuve, A., Otero, L, H., Dawley, M., Carrasco-López, C., Chang, M., & Mobashery, S. (2014). Disruption of allosteric response as an unprecedented mechanism of resistance to antibiotics. *Journal of the American Chemical Society*, 136(28), 9814–9817. <https://doi.org/10.1021/ja5030657>
- Fukumoto, A., Kim, Y., Hanaki, H., Shiomi, K., Tomoda, H. dan, & Omura, S. (2008). Cyslabdan, a new potentiator of imipenem activity against methicillin-resistant *Staphylococcus aureus*, produced by *Streptomyces* sp. K04-0144: II. Biological activities. *Journal of Antibiotics*, 61(1), 7–10. <https://doi.org/10.1038/ja.2008.102>
- Garrett M., Morris David S., Goodsell., Ruth Huey, William Lindstrom., William E., & Hart Scott Kurowski., Scott Halliday Rik., & B. A. J. (2007). Autodock. Retrieved from <http://autodock.scripps.edu/>

- Greule, A., Zhang, S., Paululat, T., & Bechthold, A. (2017). From a natural product to its biosynthetic gene cluster: a demonstration using polyketomycin from *Streptomyces diastatochromogenes* Tü6028. *J. Vis. Exp.* 54952. doi: 10.3791/54952
- Harir, M., Bendif, H., Bellahcene, M., & Fortas & Rebecca Pogni, Z. (2018). *Streptomyces* Secondary Metabolites. *Basic Biology and Applications of Actinobacteria*. <https://doi.org/10.5772/intechopen.79890>
- Hughes, C. C., Kauffman, C. A., Jensen, P. R., and Fenical, W. (2010). Structures, reactivities, and antibiotic properties of the marinopyrroles A-F. *J. Org. Chem.* 75, 3240–3250. doi: 10.1021/jo1002054
- Kemung, H, M., Tan, L, T., Khan, T, M., Chan, K., Pusparajah, P., Goh, B., & Lee, L. (2018). *Streptomyces as a Prominent Resource of Future Anti-MRSA Drugs*. 9(September), 1–26. <https://doi.org/10.3389/fmicb.2018.02221>
- Malathi, K., & Ramaiah, S. (2018). Bioinformatics approaches for new drug discovery: a review. *Biotechnology and Genetic Engineering Reviews*, 34(2), 243–260. <https://doi.org/10.1080/02648725.2018.1502984>
- Mohamed, S, B., Adlan, T, A., Khalafalla, N, A., Abdalla, N, I., Ali, Z, S. A., Munir KA, A., Elnour, & Mohammed, A, B. (2019). Proteomics and Docking Study Targeting Penicillin-Binding Protein and Penicillin-Binding Protein2a of *Methicillin-Resistant Staphylococcus Aureus* Strain SO-1977 Isolated from Sudan. *Evolutionary Bioinformatics*, 15. <https://doi.org/10.1177/1176934319864945>
- Momose, I., Chen, W. E. I., Kinoshita, N., Inuma, H., & Hamada, M. (1998). *Harmony Manual*, 1958 ( Container Corporation of America , Chicago ). Morphological characteristics of the spores and mycelia grown on SCM ( spore chain morphology ) agar medium<sup>5</sup> ) were observed with a scanning electron microscope ( Hitachi S-570 ). 2 , 6. *Journal of Antibiotics*, 51(1), 21–25.
- Morris, G. M., Huey, R., Lindstrom, W., Sanner, M. F., Belew, R. K., Goodsell, D. S., & Olson, A. J. (2010). AutoDock4 and AutoDockTools4: Automated Docking with Selective Receptor Flexibility. *Journal of ...*, 30(16), 2785–2791. <https://doi.org/10.1002/jcc.21256>.AutoDock4
- Otero, Li, H., Rojas-Altuve, A., Llarrull, L, I., Carrasco-López, C., Kumarasiri, M., Lastochkin, E., & Hermoso, J, A. (2013). How allosteric control of *Staphylococcus aureus* penicillin binding protein 2a enables methicillin resistance and physiological function. *Proceedings of the National Academy of Sciences of the United States of America*, 110(42), 16808–16813. <https://doi.org/10.1073/pnas.1300118110>
- Schaumburg, F., Alabi, A. S., Peters, G., & Becker, K. (2014). New epidemiology of *Staphylococcus aureus* infection in Africa. *Clinical Microbiology and Infection*, 20(7), 589–596. <https://doi.org/10.1111/1469-0691.12690>
- Schwede, T. (2013). Protein modeling: What happened to the “protein structure gap”? *Structure*. <https://doi.org/10.1016/j.str.2013.08.007>

- Shin, H. J., Lee, H. S., & Lee, D. S. (2010). The synergistic antibacterial activity of 1-acetyl-beta-carboline and beta-lactams against methicillinresistant *Staphylococcus aureus* (MRSA). *J. Microbiol. Biotechnol.* 20, 501–505.
- WHO, (2017), WHO publishes list of bacteria for which new antibiotics are urgently needed. Retrieved July 13, 2020, from <https://www.who.int/news-room/detail/27-02-2017-who-publishes-list-of-bacteria-for-which-new-antibiotics-are-urgently-needed>
- Widodo., Utomo, D. H., Ramdhani, A. N., Hasanah, A., & Fitriah, A. (2018). *Cara Mudah Melakukan Docking dengan Pyrex (Autodock Vina)*. Malang: Global Science.
- Yuwono, H. (2012). *Staphylococcus Aureus dan Methicillin Resistant Staphylococcus Aureus* (MRSA). Sumatera Selatan: Departemen Mikrobiologi FK Unsri.

