

DAFTAR PUSTAKA

- Akl, M.M dan Ahmed, A. (2025). Metformin as a Metabolic Adjuvant to Amoxicillin: A Hypothesis on Synergistic Antibacterial Action. *Advanced Pharmaceutical Bulletin*. 15(3): 477. <https://doi.org/10.34172/apb.025.43917>.
- A'iana, L., Sari, R. and Apridamayanti, P. (2017). FICI value determination of combination of Aloe vera (L) Burm. f ethanol extract with gentamycin sulphate ag. *Pharm Sci Res*. 4(3): 132-142. <https://doi.org/10.7454/psr.v4i3.3695>.
- Arfiandi & Tumbol, R.A. (2020). Isolasi dan identifikasi bakteri patogen pada ikan nila (*Oreochromis niloticus*) yang dibudidayakan di Kecamatan Dimembe Kabupaten Minahasa Utara Tahun 2019. *e-Journal Budidaya Perairan*. 8(1): 19-26. <https://doi.org/10.35800/bdp.8.1.2020.27229>.
- Bhagaskara, R.J., Ahmad, A.S., Prasetyawan, S.R., Amelia, D., Pratama, D.P., Tulloh, I.M.H., Putri, N.A., Putri, I.D., Rabbani, A.L., Ismail, F.M.I., & Astuti, J.T. (2023). Antibiotics Susceptibility Test of *Pseudomonas aeruginosa* and *Staphylococcus aureus* with Disk Diffusion and Dilution Method. *Journal of Research in Pharmacy and Pharmaceutical Sciences* 2(1): 29-37. <https://doi.org/10.33533/jrpps.v2i1.7029>.
- Çeylan, K., Zer, Y., Özen, G.K., & Karabulut, E.K. (2025). Investigation of the Effectiveness of Metformin and Various Antibiotic Combinations against *Pseudomonas aeruginosa* Isolates. *Acta Biomed*. 96(4): 16570. <https://doi.org/10.23750/abm.v96i4.16570>.
- CLSI. (2025). CLSI M100-ED35:2025 Performance Standards for Antimicrobial Susceptibility Testing, 35th Edition.
- Ezeh, C.K., Eze, C.N., Dibua, M.E.U. and Emencheta, S.C. (2023). A meta-analysis on the prevalence of resistance of *Staphylococcus aureus* to different antibiotics in Nigeria. *Antimicrobial Resistance & Infection Control*. 12(1): 40-62. <https://doi.org/10.1186/s13756-023-01243-x>.
- Haeriah, H., Djide, N., Alam, G., & Sartini, S. (2018). Sinergitas Aktivitas Antibakteri Dari Kelopak Bunga Rosella Dan Kitosan Terhadap *Staphylococcus aureus*. *Jurnal Farmasi Galenika*. 4(2): 93-97. <https://doi.org/10.22487/j24428744.2018.v4.i2.10590>.
- Husain, R., Ester, F., Kandou, F., & Pelealu, J.J. (2022). Antibacterial Activity Test Of Endophytic Bacteria Of Gedi Leaves (*Abelmoschus Manihot* L.) On The Growth of *Escherichia coli* And *Staphylococcus aureus*. *Pharmacon*. 11(1): 1245-1254. <https://doi.org/10.35799/pha.11.2022.39130>.
- Jannah, S.M.E, Latifah, I., Subastiono, A., Fauziah, P.N., & Lestari, E. (2023). Uji Konsentrasi Hambat Minimum Ekstrak Etanol Daun *Acacia nilotica* L. Terhadap Pertumbuhan *Staphylococcus aureus*. *Anakes: Jurnal Ilmiah Analisis Kesehatan*. 9(2): 215-223. <https://doi.org/10.37012/anakes.v9i2.1842>.
- Kamri, A.M., Baits, M., Amin, A., Kosman, R., Dede, A., Rosmayanti, R., Septinia, A., Wahyuni, S., Zabrina, A., Irmayani, I. & Amanda, M. (2023). Edukasi Penggunaan Antibiotik Rasional Pada Masyarakat. *Jurnal Pengabdian Masyarakat Bangsa*. 1(8): 1361-1374. <https://doi.org/10.59837/jpmba.v1i8.318>.
- Khasanah, N. and Rianti, E.D.D. (2024). Pengaruh tinggi konsentrasi propolis terhadap efektivitas daya hambat pada bakteri *Staphylococcus aureus*. In *Prosiding Seminar Nasional COSMIC Kedokteran*. (2): 198-204.
- Liu, Y., Jia, Y., Yang, K., Li, R., Xiao, X., Zhu, K., & Wang, Z. (2020). Metformin restores tetracyclines susceptibility against multidrug resistant bacteria. *Advanced Science*. 7(12): 1902227. <https://doi.org/10.1002/advs.201902227>.
- Masadeh, M.M., Alzoubi, K.H., Masadeh, M.M., & Aburashed, Z.O. (2021). Metformin as a potential adjuvant antimicrobial agent against multidrug resistant bacteria.

- Clinical pharmacology: advances and applications*. 13: 83-90. <https://doi.org/10.2147/CPAA.S297903>.
- Meherunisa., Jaiswal, S., & Seth, V. (2018). Study of Metformin Effect on Antimicrobial Property. *International Archives of BioMedical And Clinical Research*. 4(3): 85-87. <https://doi.org/10.21276/pam3ct93>.
- Mérillon, J. M & Riviere, C. *Natural Antimicrobial Agents*. (2018). Switzerland: Springer International Publishing.
- Meylina, T. F., Sardiman., & Santoso. (2024). Uji Efektivitas Ekstrak Daun Kedondong Bangkok (*Spondias Dulcis* Forsk.) Terhadap Bakteri *Staphylococcus aureus* dan *Pseudomonas aeruginosa*. *Jurnal Kesehatan Republik Indonesia*. 1(9): 166-173.
- Nainu, F., Bahar, M. A., Habibie, H., Yusuf, Y., Sartini, S., Mudjahid, M., Latada, N. P., Bijaksana, G. F., Pratama, A. S., Permatasari, J. A., & Asbah, A. (2025). In vivo evidence of metformin and aspirin antibacterial activity against *Staphylococcus aureus* in Drosophila infection model. *Beni-Suef University Journal of Basic and Applied Sciences*. 14(1): Article 64. <https://doi.org/10.1186/s43088-025-00652-8>.
- Nanggita, P.P., Mu'arofah, B., Imasari, T. and Santoso, K. (2023). Deteksi bakteri *Staphylococcus* sp. pada swab rongga mulut mahasiswa D3 TLM IIK Bhakti Wiyata Kediri yang memakai kawat gigi. *Jurnal Sintesis: Penelitian Sains, Terapan Dan Analisisnya*. 4(1): 9-16.
- Novelni, R., Sari, T.M. and Andila, F. (2023). Pola Bakteri dan Kepekaannya Terhadap Antibiotik pada Hasil Kultur Pasien di Intensive Care Unit RSUP Dr. M. Djamil Padang Tahun 2018. *Jurnal Penelitian Farmasi Indonesia*. 12(1): 53-59.
- Permana, A & Mazlan, N. (2024). Uji Daya Hambat Antibakteri Kombinasi Ekstrak Kulit Buah Manggis Komersial (*Garcinia mangostana* L.) dan Amoksisilin Terhadap Bakteri *Methicillin Resistant Staphylococcus aureus* (MRSA). *Anakes: Jurnal Ilmiah Analisis Kesehatan*. 10(1): 109-125. <https://doi.org/10.37012/anakes.v10i1.2214>.
- Prasetyo, D. S., Herna, H., Mursinah, M., Ibrahim, F., & Bela, B. (2022). Uji *In Vitro* Beberapa Kombinasi Antibiotik Antipseudomonas Terhadap *Pseudomonas aeruginosa* yang Resisten Terhadap Karbapenem. *Jurnal Kefarmasian Indonesia*. 12(1): 31-38. <https://doi.org/10.22435/jki.v0i0.5008>.
- Rafid, A., Sida, N.A., Kasmawati, H., & Anwar, I. (2024). Potensi Antibakteri *Sansevieria trifasciata* Prain. Menggunakan Mikrodilusi dan Analisis Kemometrik. *BioWallacea: Jurnal Penelitian Biologi*. 11(1): 78-86.
- Rahman., A. U & Choudhary, M. I. (2018). *Frontiers in Anti-Infective Drug Discovery Volume 7*. Sharjah: Bentham Science Publishers.
- Sakinah, N., Tita, R., & Edy, S. (2021). Kajian Interaksi Berbagai Kombinasi Minyak Atsiri Terhadap Mikroorganisme Perusak Pangan: Studi Kepustakaan. *J. Sains dan Teknologi Pangan*. 6(4): 4180-4191. <http://dx.doi.org/10.63071/jstp.v6i4.19377>.
- Shao, K., Yang, Y., Gong, X., Chen, K., Liao, Z., & Ojha, S.C. (2025). Staphylococcal Drug Resistance: Mechanisms, Therapies, and Nanoparticle Interventions. *Infection and Drug Resistance*. 18: 1007-1033. <https://doi.org/10.2147/IDR.S510024>.
- World Health Organization. (2023). *Antimicrobial Resistance*. World Health Organization. <https://www.who.int/news-room/fact-sheets/detail/antimicrobial-resistance>.
- Wulandari, S., Nisa, Y.S., Taryono, T., Indarti, S. & Sayekti, R.S. (2022). Sterilisasi peralatan dan media kultur jaringan. *Agrotechnology Innovation (Agrinova)*. 4(2): 16-19.
- Zuo, J., Shen, Y., Wang, H., Gao, S., Yuan, S., Song, D., Wang, Y., & Wang, Y. (2023). Effects of metformin on *Streptococcus suis* LuxS/AI-2 quorum sensing system and biofilm formation. *Microbial pathogenesis*. 181: 106183.