

DAFTAR PUSTAKA

- Abbasi, Z., Ghasemi, S.M., Ahmadi, Y., & Shokri, D. (2024). Isolation and Identification of Effective Probiotics on Drug- Resistant *Acinetobacter baumannii* Strains and Their Biofilms 2024.
- Abd El-Ghany, W.A. (2020). Paraprobiotics and postbiotics: Contemporary and promising natural antibiotics alternatives and their applications in the poultry field. *Open Vet. J.* 10 : 323–330. Available at: <https://doi.org/10.4314/ovj.v10i3.11>
- Abd El-Ghany, W.A., Abdel-Latif, M.A., Hosny, F., Alatfeehy, N.M., Noreldin, A.E., Quesnell, R.R., *et al.* (2022). Comparative efficacy of postbiotic, probiotic, and antibiotic against necrotic enteritis in broiler chickens. *Poult. Sci.* 101 : 101988. Available at: <https://doi.org/10.1016/j.psj.2022.101988>
- Adetoye, A., Pinloche, E., Adeniyi, B.A., & Ayeni, F.A. (2018). Characterization and anti-*salmonella* activities of lactic acid bacteria isolated from cattle faeces 1–11.
- Aguilar-Toalá, J.E., Garcia-Varela, R., Garcia, H.S., Mata-Haro, V., González-Córdova, A.F., Vallejo-Cordoba, B., *et al.* (2018). Postbiotics: An evolving term within the functional foods field. *Trends Food Sci. Technol.* 75 : 105–114. Available at: <https://doi.org/10.1016/j.tifs.2018.03.009>
- Akram, J., Khan, A.S., Khan, H.A., Gilani, S.A., Akram, S.J., Ahmad, F.J., *et al.* (2020). Review Article Extensively Drug-Resistant (XDR) Typhoid : Evolution , Prevention , and Its Management 2020. Available at: <https://doi.org/10.1155/2020/6432580>
- Almasoud, A., Hettiarachchy, N., Rayaprolu, S., Babu, D., Min, Y., & Mauromoustakos, A. (2016). LWT - Food Science and Technology Inhibitory effects of lactic and malic organic acids on autoinducer type 2 (AI-2) quorum sensing of *Escherichia coli* O157 : H7 and *Salmonella Typhimurium*. *LWT - Food Sci. Technol.* 66 : 560–564. Available at: <https://doi.org/10.1016/j.lwt.2015.11.013>
- Altavas, P.J. d. ., Amoranto, M.B.C., Kim, S.H., Kang, D.-K., Balolong, M.P., & Dalmacio, L.M.M. (2024). Safety assessment of five candidate probiotic *Lactobacilli* using comparative genome analysis. *Access Microbiol.* 4. Available at: <https://doi.org/10.1099/acmi.0.000715.v4>
- Álvarez-Cisneros, Y.M., & Ponce-alquicira, E. (2018). We are IntechOpen , the world ' s leading publisher of Open Access books Built by scientists , for scientists TOP 1 % . *Antimicrob. Resist.*
- Antonionioli, L., Blandizzi, C., Pacher, P., Guilliams, M., & Haskó, G. (2019). Rethinking Communication in the Immune System: The Quorum Sensing Concept. *Trends Immunol.* 40 : 88–97. Available at:

<https://doi.org/10.1016/j.it.2018.12.002>

- Arjyal, A., Basnyat, B., Nhan, H.T., Koirala, S., Giri, A., Joshi, N., *et al.* (2016). Gatifl oxacin versus ceftriaxone for uncomplicated enteric fever in Nepal : an open-label , two-centre , randomised controlled trial. *Lancet Infect. Dis.* 16 : 535–545. Available at: [https://doi.org/10.1016/S1473-3099\(15\)00530-7](https://doi.org/10.1016/S1473-3099(15)00530-7)
- Aryal, B., Adhikari, B., Aryal, N., Bhattarai, B.R., Khadayat, K., & Parajuli, N. (2021). LC-HRMS Profiling and Antidiabetic , Antioxidant , and Antibacterial Activities of Acacia catechu (L . f .) Willd 2021.
- Azimi, S., Klementiev, A.D., Whiteley, M., & Diggle, S.P. (2020). Bacterial Quorum Sensing During Infection 201–219.
- Azzahra, U.Q.Z., Maherawati, & Fadly, D. (2024). Antimicrobial Activity Of Lactic Acid Bacteria Isolate From Traditional Fermented Food Pekasam From Sambas Regency Kalimantan Barat. *J. Nutr. Coll.* 13 : 196–203.
- Bahr, G., Gonz, L.J., & Vila, A.J. (2021). Metallo- β -lactamases in the Age of Multidrug Resistance : From Structure and Mechanism to Evolution , Dissemination , and Inhibitor Design. *Chem. Rev.* Available at: <https://doi.org/10.1021/acs.chemrev.1c00138>
- Baig, U., & Muslim, S. (2023). A pattern of antibiotic drug resistance of *Salmonella typhi* and *Salmonella paratyphi* among children with enteric fever in a tertiary care hospital in Lahore , Pakistan. *J. Croat Med* 256–264.
- Bello, F.D., Zorzi, M., Aigotti, R., Medica, D., Fanelli, V., Cantaluppi, V., *et al.* (2021). Targeted and untargeted quantification of quorum sensing signalling molecules in bacterial cultures and biological samples via HPLC-TQ MS techniques. *Anal. Bioanal. Chem.* 413 : 853–864. Available at: <https://doi.org/10.1007/s00216-020-03040-6>
- Beltrán, J.R.-, Delafuente, J., & Sampedro, R.L.- (2021). Beyond horizontal gene transfer: the role of plasmids in bacterial evolution. *Nat. Rev. Microbiol.* 19. Available at: <https://doi.org/10.1038/s41579-020-00497-1>
- Bereda, G. (2022). Clinical Pharmacology of Ampicillin. *J. Pharm. Res. Rep.* 3 : 1–3. Available at: [https://doi.org/doi.org/10.47363/JPRSR/2022\(3\)129](https://doi.org/doi.org/10.47363/JPRSR/2022(3)129)
- Bhardwaj, A.K., & Mohanty, P. (2014). Bacterial Efflux Pumps Involved in Multidrug Resistance and their Inhibitors : Rejuvenating the Antimicrobial Chemotherapy Bacterial Efflux Pumps Involved in Multidrug Resistance and their Inhibitors : Rejuvenating the Antimicrobial Chemotherapy. Available at: <https://doi.org/10.2174/157489112799829710>
- Binda, S., Hill, C., Johansen, E., Obis, D., Pot, B., Sanders, M.E., *et al.* (2020). Criteria to Qualify Microorganisms as “Probiotic” in Foods and Dietary Supplements. *Front. Microbiol.* 11 : 1–9. Available at: <https://doi.org/10.3389/fmicb.2020.01662>

- Bintsis, T. (2018). Lactic acid bacteria as starter cultures: An update in their metabolism and genetics. *AIMS Microbiol.* 4 : 665–684. Available at: <https://doi.org/10.3934/microbiol.2018.4.665>
- Cahyanto, H.A., Sunaryanto, R., Damayanti, E., & Mustofa (2025). H a y a t i 32 : 1225–1239. Available at: <https://doi.org/10.4308/hjb.32.5.1225-1239>
- Casagrande, C., Voos, M., Batista, F., Filippi, C., Marina, C., Barin, J., *et al.* (2025). Violacein quantification using a smartphone coupled to an endoscopic camera : Quorum sensing inhibition in *Chromobacterium violaceum*. *The Microbe* 6 : 100229. Available at: <https://doi.org/10.1016/j.microb.2024.100229>
- Che, J., Shi, J., Fang, C., Zeng, X., Wu, Z., Du, Q., *et al.* (2024). Elimination of Pathogen Biofilms via Postbiotics from Lactic Acid Bacteria : A Promising Method in Food and Biomedicine.
- Cheng, K., Hsiao, H., Hou, Y., Hsieh, C., Hsu, H., Chen, H., *et al.* (2022). Improvement in Violacein Production by Utilizing Formic Acid to Induce Quorum Sensing in *Chromobacterium violaceum*. *Antioxidants* 11 : 1–12. Available at: <https://doi.org/https://doi.org/10.3390/antiox11050849>
- Choi, J., Shin, D., Kim, M., Park, J., Lim, S., & Ryu, S. (2012). LsrR-mediated quorum sensing controls invasiveness of *Salmonella typhimurium* by regulating SPI-1 and flagella genes. *PLoS One* 7 : 1–11. Available at: <https://doi.org/10.1371/journal.pone.0037059>
- Chowdhury, R., Bitar, P.D.P., Chapman, H.M., & Altier, C. (2023). *Salmonella* Invasion Is Controlled by Competition among. *Am. Soc. Microbiol.* 1–15.
- Craig, A., Hancock, K., Tran, Y., Craig, M., & Peters, K. (2002). Epidemiology of Stuttering in Entire Life Span 45.
- Cui, L., Wang, X., Huang, D., Zhao, Y., Feng, J., Lu, Q., *et al.* (2020). CRISPR-cas3 of *Salmonella* upregulates bacterial biofilm formation and virulence to host cells by targeting quorum-sensing systems. *Pathogens* 9 : 1–20. Available at: <https://doi.org/10.3390/pathogens9010053>
- Daris, U.S. (2023). Uji Daya Hambat serta Penentuan 9 : 223–234.
- Das, D.J., Sc, M., Sc, A.S.M., Ph, D., Sc, J.B.J.M., Ph, D., *et al.* (2020). Critical insights into antibiotic resistance transferability in probiotic *Lactobacillus*. *Nutrition* 69 : 110567. Available at: <https://doi.org/10.1016/j.nut.2019.110567>
- De Vuyst, L., & Leroy, F. (2007). Bacteriocins from lactic acid bacteria: Production, purification, and food applications. *J. Mol. Microbiol. Biotechnol.* 13 : 194–199. Available at: <https://doi.org/10.1159/000104752>
- Dobrev, L., Koprinarova, M., & Bratchkova, A. (2020). Original Article Antibiotic Susceptibility Of *Lactobacillus plantarum* Strains , Isolated From Katak. Available at: <https://doi.org/10.15547/bjvm.2020-0072>

- Dutta, S., Das, S., Mitra, U., Jain, P., Roy, I., Ganguly, S.S., *et al.* (2014). Antimicrobial Resistance , Virulence Profiles and Molecular Subtypes of *Salmonella enterica* Serovars Typhi and Paratyphi A Blood Isolates from Kolkata , India during 2009-2013 9 : 1–13. Available at: <https://doi.org/10.1371/journal.pone.0101347>
- Etebu, E., & Arikekpar, I. (2017). Antibiotics : Classification and mechanisms of action with emphasis on molecular perspectives. *Int. J. Appl. Microbiol. Biotechnol. Res.*
- Evangelista, A.G., Audrey, J., Corrêa, F., Vitor, J., Matté, H.C., Milek, M.M., *et al.* (2021). Cell- - free supernatants produced by lactic acid bacteria reduce *Salmonella* population in vitro. *Microbiology*. Available at: <https://doi.org/10.1099/mic.0.001102>
- Fachrial, E., & Harmileni, H. (2018). Isolasi Dan Aktivitas Anti Mikroba Bakteri Asam Laktat Dari Fermentasi Nira Kelapa Sawit. *BIOLINK (Jurnal Biol. Lingkungan. Ind. Kesehatan)* 5 : 51–58. Available at: <https://doi.org/10.31289/biolink.v5i1.1707>
- George, F., Daniel, C., Thomas, M., Singer, E., Guilbaud, A., Tessier, F.J., *et al.* (2018). Occurrence and Dynamism of Lactic Acid Bacteria in Distinct Ecological Niches : A Multifaceted Functional Health Perspective 9 : 1–15. Available at: <https://doi.org/10.3389/fmicb.2018.02899>
- Getino, M., Sanabria-Rios, D.J., Fernández-López, R., Campos-Gómez, J., Sánchez-López, J.M., Fernandez, A., *et al.* (2015). Synthetic Fatty Acids Prevent Plasmid-Mediated Horizontal Gene Transfer 6 : 1–8. Available at: <https://doi.org/10.1128/mBio.01032-15.Editor>
- Gopalakrishnan, A., Keerthiga, R., Sreedevi, M., Rajagopalan, V., Kumaran, R., & Vanjinathan, M. (2024). South African Journal of Chemical Engineering A theoretical approach on ADMET properties of an azo-ester based fluorophore (AEF), and it's energetics , binding stability and molecular interactions with select globular proteins. *South African J. Chem. Eng.* 49 : 313–325. Available at: <https://doi.org/10.1016/j.sajce.2024.06.003>
- Gowrishankar, S., Sivaranjani, M., Kamaladevi, A., Ravi, A.V., Balamurugan, K., & Pandian, S.K. (2016). Cyclic dipeptide cyclo (l-leucyl-l-prolyl) from marine *Bacillus amyloliquefaciens* mitigates biofilm formation and virulence in *Listeria monocytogenes*. *Pathog. Dis.* 74 : 1–12. Available at: <https://doi.org/10.1093/femspd/ftw017>
- Gueimonde, M., Sánchez, B., de los Reyes-Gavilán, C.G., & Margolles, A. (2013). Antibiotic Resistance in Probiotic Bacteria. *Front. Microbiol.* 4 : 1–6. Available at: <https://doi.org/10.3389/fmicb.2013.00202>
- Hancuh, M., Walldorf, J., Minta, A.A., Tevi-Benissan, C., Christian, K.A., Nedelec, Y., *et al.* (2023). Typhoid Fever Surveillance, Incidence Estimates, and Progress Toward Typhoid Conjugate Vaccine Introduction — Worldwide,

2018–2022. *MMWR. Morb. Mortal. Wkly. Rep.* 72 : 171–176. Available at: <https://doi.org/10.15585/mmwr.mm7207a2>

- Hansur, L., Ugi, D., & Hambali, H. (2020). Uji Kepekaan Bakteri Asam Laktat Kandidat Probiotik terhadap Antibiotik Uji Kepekaan Bakteri Asam Laktat Kandidat Probiotik terhadap Antibiotik Kanamisin, Oleandomisin, dan Polimiksin B Sensitivity and Resistance of Antibiotic Kanamycin , Oleandomycin a. Available at: <https://doi.org/10.23886/ejki.7.8476.Abstrak>
- Hu, A., Huang, W., Shu, X., Ma, S., Yang, C., Zhang, R., *et al.* (2023). Lactiplantibacillus plantarum Postbiotics Suppress Salmonella Infection via Modulating Bacterial Pathogenicity, Autophagy and Inflammasome in Mice. *Animals* 13. Available at: <https://doi.org/10.3390/ani13203215>
- Huang, R., & Genetics, M. (2015). Identifying Genetic Causes of Specific Phenotypes by Whole- Genome Sequencing Analysis Identifying Genetic Causes of Specific Phenotypes by Whole-Genome. *Thesis*.
- Husain, D.R., & Wardhani, R. (2021). Antibacterial activity of endosymbiotic bacterial compound from Pheretima sp . earthworms inhibit the growth of *Salmonella typhi* and *Staphylococcus aureus* : in vitro and in silico approach 13 : 537–543.
- Imara, F. (2020). Salmonella typhi Bakteri Penyebab Demam Tifoid 1–5.
- Jebastin, T., Sabarinathan, D., & Sundarabaalaji, N. (2017). Molecular Docking Of *Salmonella typhi* Quorum Sensing Regulated Transcription Factor SdiA. *Glob. J. Eng. Sci. Res. Manag.* 4 : 59–65. Available at: <https://doi.org/10.5281/zenodo.569970>
- Kaur, A., Capalash, N., & Sharma, P. (2019). Communication mechanisms in extremophiles: Exploring their existence and industrial applications. *Microbiol. Res.* 221 : 15–27. Available at: <https://doi.org/10.1016/j.micres.2019.01.003>
- Kechagia, M., Basoulis, D., Konstantopoulou, S., Dimitriadi, D., Gyftopoulou, K., Skarmoutsou, N., *et al.* (2013). Health Benefits of Probiotics: A Review. *Hindawi Publ. Corp.* 2013.
- Khalid, K. (2011). An overview of lactic acid bacteria. *Int. J. Biosci.* 1 : 2222–5234.
- Khan, S.H., & Iqbal, J. (2016). Recent advances in the role of organic acids in poultry nutrition 2119. Available at: <https://doi.org/10.1080/09712119.2015.1079527>
- Kherroubi, L., Bacon, J., & Rahman, K.M. (2024). JAC- Antimicrobial Resistance Navigating fluoroquinolone resistance in Gram-negative bacteria : a comprehensive evaluation. *JAC-Antimicrobial Resist.* 6 : 1–20. Available at: <https://doi.org/10.1093/jacamr/dlae127>
- Khoerunnisa, S.F., Balia, R.L., & Pradini, G.W. (2022). Mekanisme Resistensi

- Antibiotik pada *Lactobacillus* dan Potensinya untuk Mengatasi Salmonellosis pada Ayam Broiler. *Acta Vet. Indones.* 10 : 111–123. Available at: <https://doi.org/10.29244/avi.10.2.111-123>
- Kornelsen, V., & Kumar, A. (n.d.). Update on Multidrug Resistance Efflux Pumps in.
- Kothari, V., Sharma, S., & Padia, D. (2017). Asian Pacific Journal of Tropical Medicine. *Asian Pac. J. Trop. Med.* 10 : 744–752. Available at: <https://doi.org/10.1016/j.apjtm.2017.07.022>
- Kowalska-krochmal, B., & Dudek-wicher, R. (2021). The Minimum Inhibitory Concentration of Antibiotics : Methods , Interpretation , Clinical Relevance.
- Kusmiati, & Meti, R. (2022). Demam Tifoid. *J. Indones. Med. Lab. Sci.* 3 : 27–37.
- Leuschner, R.G.K., Robinson, T.P., Hugas, M., Sandro, P., Richard-forget, F., Licht, T.R., *et al.* (2010). Qualified presumption of safety (QPS): a generic risk assessment approach for biological agents notified to the European Food Safety Authority (EFSA) 21. Available at: <https://doi.org/10.1016/j.tifs.2010.07.003>
- Li, T., Teng, D., Mao, R., Hao, Y., Wang, X., & Wang, J. (2020). A Critical Review of Antibiotic Resistance in Probiotic Bacteria. *Food Res. Int.* 136 : 109571. Available at: <https://doi.org/10.1016/j.foodres.2020.109571>
- Li, Z., Song, Q., Wang, M., Ren, J., Liu, S., & Zhao, S. (2021). Comparative Genomics Analysis of *Pediococcus acidilactici* Species. *J. Microbiol.* 59 : 573–583. Available at: <https://doi.org/10.1007/s12275-021-0618-6>
- Liu, L., Zeng, X., Zheng, J., Zou, Y., Qiu, S., & Dai, Y. (2022). AHL-mediated quorum sensing to regulate bacterial substance and energy metabolism : A review. *Microbiol. Res.* 262 : 127102. Available at: <https://doi.org/10.1016/j.micres.2022.127102>
- Manguntungi, B., Saputri, D.S., Mustopa, A.Z., Ekawati, N., Nurfatwa, M., Prastyowati, A., *et al.* (2020). Antidiabetic , Antioxidants And Antibacterial Activities Of Lactic Acid Bacteria (LAB) From Masin (Fermented Sauce From Sumbawa , West Nusa Tenggara , Indonesia). *Ann. Bogor.* 24 : 27–34. Available at: <https://doi.org/http://dx.doi.org/10.14203/ann.bogor.2020.v24.n1.27-34>
- Marchello, C.S., Carr, S.D., & Crump, J.A. (2020). A systematic review on antimicrobial resistance among *Salmonella typhi* worldwide. *Am. J. Trop. Med. Hyg.* 103 : 2518–2527. Available at: <https://doi.org/10.4269/ajtmh.20-0258>
- Martinez, J.L. (2014). Drug resistance General principles of antibiotic resistance in bacteria. *Drug Discov. Today Technol.* 11 : 33–39. Available at: <https://doi.org/10.1016/j.ddtec.2014.02.001>

- Mathipa-Mdakane, M.G., & Thantsha, M.S. (2022). *Lacticaseibacillus rhamnosus*: A Suitable Candidate for the Construction of Novel Bioengineered Probiotic Strains for Targeted Pathogen Control. *Foods* 11. Available at: <https://doi.org/10.3390/foods11060785>
- Merenstein, D., Pot, B., Leyer, G., Ouwehand, A.C., & Preidis, G.A. (2023). Emerging issues in probiotic safety: 2023 perspectives Abstract. *Gut Microbes* 15 : 1–22. Available at: <https://doi.org/10.1080/19490976.2023.2185034>
- Motherway, M.O., O'Connor, L., Smith, S., Bolton, D., Cormican, M., De Waal, T., *et al.* (2024). of the Food Safety Authority of Ireland Assessment of the safety of “probiotics” in food supplements. Available at: <https://doi.org/10.2903/fr.efsa.2024.FR-0050>
- Mukherjee, S., Bassler, B.L., & Chase, C. (2020). HHS Public Access 17 : 371–382. Available at: <https://doi.org/10.1038/s41579-019-0186-5.Bacterial>
- Nirwati, H., Damayanti, E., Nurwening, E., Mutofa, M., & Widada, J. (2022a). Soil-derived *Streptomyces* sp . GMR22 producing antibio fi lm activity against *Candida albicans* : bioassay , untargeted LC-HRMS , and gene cluster analysis. *Heliyon* 8 : e09333. Available at: <https://doi.org/10.1016/j.heliyon.2022.e09333>
- Nirwati, H., Damayanti, E., Sholikhah, E.N., Mustofa, ., & Widada, J. (2022b). Potential secondary metabolite analysis of soil *Streptomyces* sp. GMR22 and antibacterial assay on *Porphyromonas gingivalis* ATCC 33277. *J. Med. Sci. (Berkala Ilmu Kedokteran)* 54 : 114–124. Available at: <https://doi.org/10.19106/jmedsci005402202202>
- Nunziata, L., Brasca, M., Morandi, S., & Silvetti, T. (2022). Antibiotic resistance in wild and commercial non-enterococcal Lactic Acid Bacteria and Bifidobacteria strains of dairy origin : An update. *Food Microbiol.* 104 : 103999. Available at: <https://doi.org/10.1016/j.fm.2022.103999>
- Nurfadillah, A., Lukman, J.B., & Irma, A. (2022). Uji Efektivitas Daya Antibakteri Ekstrak Alga Terhadap Pertumbuhan Bakteri Patogen *Streptococcus mutans*. *J. Vocat. Heal. Sci.* 1 : 40–47.
- Nurmala, Virgiandhy, I.G.N., & Liana, D.F. (2015). Resistensi dan Sensitivitas Bakteri terhadap Antibiotik di RSUD dr . Soedarso Pontianak Tahun 2011-2013 3 : 21–28.
- Octaviany, C., Yulia, R., Herawati, F., & Wijono, H. (2021). Profil Penggunaan Antibiotik Profilaksis pada Pasien Bedah di Salah Satu RS Swata Kota Surabaya. *Media Kesehat. Masy. Indones.* 20 : 168–172. Available at: <https://doi.org/10.14710/mkmi.20.3.168-172>
- Overbeek, R., Olson, R., Pusch, G.D., Olsen, G.J., Davis, J.J., Disz, T., *et al.* (2014). The SEED and the Rapid Annotation of microbial genomes using Subsystems

- Technology (RAST). *Nucleic Acids Res.* 42 : 206–214. Available at: <https://doi.org/10.1093/nar/gkt1226>
- Pang, Z., Zhou, G., Ewald, J., Basu, N., & Xia, J. (2022). Using MetaboAnalyst 5.0 for LC – HRMS spectra processing, multi-omics integration and covariate adjustment of global metabolomics data 17. Available at: <https://doi.org/10.1038/s41596-022-00710-w>
- Patel, A.R., Shah, N.P., & Prajapati, J.B. (2012). Antibiotic Resistance Profile of Lactic Acid Bacteria and Their Implications in Food Chain. *World J. Dairy Food Sci.* 7 : 202–211. Available at: <https://doi.org/10.5829/idosi.wjdfs.2012.7.2.1113>
- Peng, X., Ed-Dra, A., Song, Y., Elbediwi, M., Nambiar, R.B., Zhou, X., *et al.* (2022). *Lacticaseibacillus rhamnosus* alleviates intestinal inflammation and promotes microbiota-mediated protection against *Salmonella* fatal infections. *Front. Immunol.* 13 : 1–17. Available at: <https://doi.org/10.3389/fimmu.2022.973224>
- Pratama, A.A., Rifai, Y., & Marzuki, A. (2017). Docking Molekuler Senyawa 5,5'-Dibromometilsesamin. *Maj. Farm. dan Farmakol.* 21 : 67–69. Available at: <https://doi.org/10.20956/mff.v21i3.6857>
- Qadi, W.S.M., Mediani, A., Kasim, Z.M., Misnan, N.M., Sani, N.A., & Jamar, N.H. (2023). Biological Characterization and Metabolic Variations among Cell-Free Supernatants Produced by Selected Plant-Based Lactic Acid Bacteria.
- Qiao, Y., Qiu, Z., Tian, F., Yu, L., Zhao, J., Zhang, H., *et al.* (2021). *Pediococcus acidilactici* Strains Improve Constipation Symptoms and Regulate Intestinal Flora in Mice. *Front. Cell. Infect. Microbiol.* 11 : 1–12. Available at: <https://doi.org/10.3389/fcimb.2021.655258>
- Rahmiati, Simanjuntak, H.A., & Situmorang, T.S. (2020). Kemampuan Bakteri Asam Laktat Dalam Menghambat *Salmonella thypii* 1 : 143–150. Available at: <https://doi.org/10.34007/jns.v1i3.25>
- Rajanikar, R. V, Haranahalli, B., Naithani, H., Azmal, S., Raju, N., & Behare, P. V (2021). Phenyllactic acid : A green compound for food biopreservation. *Food Control* 128 : 108184. Available at: <https://doi.org/10.1016/j.foodcont.2021.108184>
- Ramadhan, M.K.S., Permadi, A., & Sulistiawati, E. (2024). Qualitative and Quantitative Analysis of Lecithin Content and Bioactive Chemical Compensents of Corn Oil From Dompu District.
- Rampengan, N.H. (2013). Antibiotik Terapi Demam Tifoid Tanpa Komplikasi pada Anak 14 : 271–276.
- Rokon-Uz-Zaman, M., Bushra, A., Pospo, T.A., Runa, M.A., Tasnuva, S., Parvin, M.S., *et al.* (2023). Detection of antimicrobial resistance genes in *Lactobacillus* spp. from poultry probiotic products and their horizontal transfer

- among *Escherichia coli*. *Vet. Anim. Sci.* 20 : 100292. Available at: <https://doi.org/10.1016/j.vas.2023.100292>
- Saeki, E.K., Katsuko, R., Kobayashi, T., & Nakazato, G. (2020). Microbial Pathogenesis Quorum sensing system : Target to control the spread of bacterial infections. *Microb. Pathogenes.* 142 : 104068. Available at: <https://doi.org/10.1016/j.micpath.2020.104068>
- Saha, S., Saiful, M., Sajib, I., Garrett, D., & Qamar, F.N. (2020). Antimicrobial Resistance in Typhoidal *Salmonella* : Around the World in 3 Days 71 : 91–95. Available at: <https://doi.org/10.1093/cid/ciaa366>
- Sanjaya, D.A., Meriyani, H., Asih, R.R., & Budiarta, N. (2022). Kajian Literatur : Profil Resistensi *Salmonella typhi* dan Pemilihan Antibiotik Pada Demam Tifoid 107–121. Available at: <https://doi.org/10.20961/jpscr.v7i2.56656>
- Sarita, B., & Kovaleva, E.G. (2025). A comprehensive review of probiotics and human health-current prospective and applications. *Front. Microbiol.* 1–14. Available at: <https://doi.org/10.3389/fmicb.2024.1487641>
- Scallan, E., & Mahon, B.E. (2012). Foodborne Diseases Active Surveillance Network (FoodNet) in 2012 : A Foundation for Food Safety in the United States 54 : 381–384. Available at: <https://doi.org/10.1093/cid/cis257>
- Setyawardani, T., Rahayu, W.P., Palupi, N.S., & Sumarmono, J. (2017). The Potential of *Lactobacillus rhamnosus* and *Lactobacillus plantarum* Isolated from Goat's Milk in Inhibiting *Salmonella typhimurium* ATCC 14028 Infections in Rats. *Int. Food Res. J.* 24 : 2625–2631.
- Seyirt, S., Tezel, B.U., & Sanlibaba, P. (2024). Identification and Antibiotic Resistance of *Lactobacillus* and *Bifidobacterium* Species From Manufactured Probiotic Dairy Products 2024. Available at: <https://doi.org/10.1155/2024/1619353>
- Sholpan, A., Lamas, A., Cepeda, A., & Franco, C.M. (2021). *Salmonella* spp . quorum sensing : an overview from environmental persistence to host cell invasion 7 : 238–256. Available at: <https://doi.org/10.3934/microbiol.2021015>
- Sirichoat, A., Bel, A., & Buppasiri, P. (n.d.). Antibiotic Susceptibility Profiles of Lactic Acid Bacteria from the Human Vagina and Genetic Basis of Acquired Resistances.
- Stanaway, J.D. (2017). Articles The global burden of typhoid and paratyphoid fevers : a systematic analysis for the Global Burden of Disease Study 2017. Available at: [https://doi.org/10.1016/S1473-3099\(18\)30685-6](https://doi.org/10.1016/S1473-3099(18)30685-6)
- Stefańska, I., Kwiecień, E., Józwiak-Piasecka, K., Garbowska, M., Binek, M., & Rzewuska, M. (2021). Antimicrobial Susceptibility of Lactic Acid Bacteria Strains of Potential Use as Feed Additives-The Basic Safety and Usefulness Criterion. *Front. Vet. Sci.* 8 : 1–11. Available at: <https://doi.org/10.3389/fvets.2021.687071>

- Tamoradi, T., Kiasat, A.R., Veisi, H., & Nobakht, V. (2022). Open RSM process optimization of biodiesel production from rapeseed oil and waste corn oil in the presence of green and novel catalyst. *Sci. Rep.* 1–15. Available at: <https://doi.org/10.1038/s41598-022-20538-4>
- Tian, Q., Ye, H., Zhou, X., Wang, J., Zhang, L., Sun, W., *et al.* (2025). Evaluating the health risk of probiotic supplements from the perspective of antimicrobial resistance 13.
- Tiwari, S.K. (2022). Bacteriocin-Producing Probiotic Lactic Acid Bacteria in Controlling Dysbiosis of the Gut Microbiota 12 : 1–11. Available at: <https://doi.org/10.3389/fcimb.2022.851140>
- Tonkin, M., Khan, S., Wani, M.Y., & Ahmad, A. (2020). Quorum Sensing – A Stratagem for Conquering Multi-Drug Resistant Pathogens Quorum Sensing – A Stratagem for Conquering Multi-Drug Resistant Pathogens. Available at: <https://doi.org/10.2174/1381612826666201210105638>
- Toomula, N., D, S.K., R, A.K., K, H.B., & Raviteja, Y. (2019). Bacteriocin Producing Probiotic Lactic acid Bacteria Microbial & Biochemical Technology Bacteriocin Producing Probiotic Lactic acid Bacteria. Available at: <https://doi.org/10.4172/1948-5948.1000062>
- Trigos, E.J., Toquet, M., Barba, M., Martín, Á.G., Quereda, J.J., & Bataller, E. (2022). Search of antimicrobial lactic acid bacteria from *Salmonella* -negative dogs. *BMC Vet. Res.* 1–12. Available at: <https://doi.org/10.1186/s12917-021-03070-x>
- Tsugami, Y., Nii, T., & Isobe, N. (2023). Valine Treatment Enhances Antimicrobial Component Production in Mammary Epithelial Cells and the Milk of Lactating Goats Without Influencing the Tight Junction Barrier 1–9.
- Van Hoek, A.H.A.M., Mevius, D., Guerra, B., Mullany, P., Roberts, A.P., & Aarts, H.J.M. (2011). Acquired antibiotic resistance genes : an overview. *Front. Microbiol.* 2 : 1–27. Available at: <https://doi.org/10.3389/fmicb.2011.00203>
- Vanstokstraeten, R., Piérard, D., Crombé, F., Geyter, D. De, Wybo, I., Muyldermans, A., *et al.* (2023). Genotypic resistance determined by whole genome sequencing versus phenotypic resistance in 234 *Escherichia coli* isolates. *Sci. Rep.* 1–7. Available at: <https://doi.org/10.1038/s41598-023-27723-z>
- Vasavi, H.S., Arun, A.B., & Rekha, P.D. (2013). Inhibition of quorum sensing in *Chromobacterium cumini* L . and *Pimenta dioica* L . *violaceum* by *S. zygyium*. *Asian Pac. J. Trop. Biomed.* 3 : 954–959. Available at: [https://doi.org/10.1016/S2221-1691\(13\)60185-9](https://doi.org/10.1016/S2221-1691(13)60185-9)
- Venkatramanan, M., & Nalini, E. (2024). Regulation of virulence in *Chromobacterium violaceum* and strategies to combat it 1–13. Available at: <https://doi.org/10.3389/fmicb.2024.1303595>

- Vuyst, L. De, & Leroy, F. (2004). Lactic acid bacteria as functional starter cultures for the food fermentation industry. *Trends Food Sci. Technol.* 15 : 67–78. Available at: <https://doi.org/10.1016/j.tifs.2003.09.004>
- Wang, Q., Olesen, A.K., Maccario, L., & Stenl, J. (2022). Plasmid An easily modifiable conjugative plasmid for studying horizontal gene transfer 124. Available at: <https://doi.org/10.1016/j.plasmid.2022.102649>
- Wang, Yaqi, Wu, J., Lv, M., Shao, Z., Hungwe, M., Wang, J., *et al.* (2021). Metabolism Characteristics of Lactic Acid Bacteria and the Expanding Applications in Food Industry Degradation of Indigestible 9 : 1–19. Available at: <https://doi.org/10.3389/fbioe.2021.612285>
- Wong, A., Ngu, D.Y. Saint, Dan, L.A., Ooi, A., & Lim, R.L.H. (2015). Detection of Antibiotic Resistance in Probiotics of Dietary Supplements. *Nutr. J.* 14 : 12–17. Available at: <https://doi.org/10.1186/s12937-015-0084-2>
- Xu, C., Ni, L., Xu, H., & Yu, D. (2025). Indole competitively inhibits quorum sensing and triggers oxidative stress to suppress Microcystis blooms. *J. Hazard. Mater.* 495 : 138784. Available at: <https://doi.org/10.1016/j.jhazmat.2025.138784>
- Xue, Q., Liu, X., Russell, P., Li, J., Pan, W., Fu, J., *et al.* (2022). Ecotoxicology and Environmental Safety Evaluation of the binding performance of flavonoids to estrogen receptor alpha by Autodock , Autodock Vina and Surflex-Dock. *Ecotoxicol. Environ. Saf.* 233 : 113323. Available at: <https://doi.org/10.1016/j.ecoenv.2022.113323>
- Yao, H., Liu, J., Jiang, X., Chen, F., & Lu, X. (2021). Analysis of the Clinical Effect of Combined Drug Susceptibility to Guide Medication for Carbapenem-Resistant *Klebsiella pneumoniae* Patients Based on the Kirby – Bauer Disk Diffusion Method 79–87.
- Yin, R., Kwoh, C., & Zheng, J. (2018). Whole Genome Sequencing Analysis : Computational Pipelines and Workflows in Bioinformatics Provided for non-commercial research and educational use . *Encycl. Bioinforma. Comput. Biol.* 3. Available at: <https://doi.org/10.1016/B978-0-12-809633-8.20095-2>
- Zeng, X., Zou, Y., Zheng, J., Qiu, S., Liu, L., & Wei, C. (2023). Quorum sensing-mediated microbial interactions : Mechanisms , applications , challenges and perspectives. *Microbiol. Res.* 273 : 127414. Available at: <https://doi.org/10.1016/j.micres.2023.127414>
- Zhang, F., Gao, J., Wang, B., Huo, D., Wang, Z., Zhang, J., *et al.* (2018). Whole-genome sequencing reveals the mechanisms for evolution of streptomycin resistance in *Lactobacillus plantarum*. *J. Dairy Sci.* 101 : 2867–2874. Available at: <https://doi.org/10.3168/jds.2017-13323>
- Zhang, X., Liu, B., Ding, X., Bin, P., Yang, Y., & Zhu, G. (2022). Regulatory Mechanisms between Quorum Sensing and Virulence in Salmonella.

Microorganisms 10 : 1–11. Available at:
<https://doi.org/10.3390/microorganisms10112211>

Zheng, J., Wittouck, S., Salvetti, E., Franz, C.M.A.P., Harris, H.M.B., Mattarelli, P., *et al.* (2020). A taxonomic Note on the Genus *Lactobacillus*: Description of 23 Novel Genera, Emended Description of the Genus *Lactobacillus* Beijerinck 1901, and Union of Lactobacillaceae and Leuconostocaceae. *Int. J. Syst. Evol. Microbiol.* 70 : 2782–2858. Available at:
<https://doi.org/10.1099/ijsem.0.004107>

Zheng, M., Zhang, R., Tian, X., Zhou, X., Pan, X., & Wong, A. (2017). Assessing the risk of probiotic dietary supplements in the context of antibiotic resistance. *Front. Microbiol.* 8 : 1–8. Available at:
<https://doi.org/10.3389/fmicb.2017.00908>

Zuhroh, N., Rasmiyana, R., & Rachmawati, Y. (2025). Potential of Thymoquinone, Thymol, and Carvacrol from Black Seed (*Nigella sativa*) as Natural Antibacterial Agents in Food Safety: In Silico Analysis against *Escherichia coli* and *Salmonella* 4044 : 26–33.