

DAFTAR PUSTAKA

- Abouloifa, H., Rokni, Y., Bellaouchi, R., Hasnaoui, I., Gaamouche, S., Ghabbour, N., Chaoui, J., Brasca, M., Karboune, S., Salah, R. Ben, Saalaoui, E., & Asehrou, A. (2020). Technological Properties of Potential Probiotic *Lactobacillus* Strains Isolated from Traditional Fermenting Green Olive. *Journal of Microbiology, Biotechnology and Food Sciences*, 9(5), 884–889. <https://doi.org/10.15414/jmbfs.2020.9.5.884-889>
- Agbadi., R. K., Kaukhova ., I. E., Sirichenko., T. I., & Terninko., I. I. (2018). Quantitative and Qualitative Analyses of Amino Acids in *Morinda citrifolia* (Rubiaceae). *International Journal of Pharmacognosy and Phytochemical Research*, 9(07), 980–984. <https://doi.org/10.25258/phyto.v9i07.11167>
- Agustina, A., Saptiani, G., & Hardi, E. H. (2022). Isolation and Identification of Potential Lactic Acid Bacteria as Probiotics from the Intestines of Repang Fish (*Puntiplites waandersi*). *Aquaculture, Aquarium, Conservation & Legislation*, 15(1), 24–33.
- Ahansaz, N., Tarrah, A., Pakroo, S., Corich, V., & Giacomini, A. (2023). Lactic Acid Bacteria in Dairy Foods : Prime Sources of Antimicrobial Compounds. *Fermentation*, 9(964), 1–21.
- Ahirwar, S. S., Gupta, M. K., Gupta, G., & Singh, V. (2017). Screening, Isolation and Identification of *Lactobacillus* Species from Dental Caries of Children. *International Journal of Current Microbiology and Applied Sciences*, 6(1), 497–503. <https://doi.org/10.20546/ijemas.2017.601.059>
- Alharbi, N. S., Kadaikunnan, S., Khaled, J. M., Almanaa, T. N., Moorthy, G., Rajoo, B., Alanzi, K. F., & Rajaram, S. (2019). Optimization of Glutamic Acid Production by *Corynebacterium Glutamicum* using Response Surface Methodology. *Journal of King Saud University - Science*, xxxx. <https://doi.org/10.1016/j.jksus.2019.11.034>
- Ali, N. M., Shakoori, F. R., & Shakoori, A. R. (2011). Improvement in Cysteine Production by Local Bacterial Isolates. *Pakistan Journal of Zoology*, 43(4), 805–808.
- Anisah, Harun, H., Jannah, H., Amelia, R., & Purwati, E. (2023). Molecular Identification and Antimicrobial Potency of Probiotic Lactic Acid Bacteria Pado (Fish Fermentation) Nagari Balingka IV Koto District-West Sumatra as a Functional Food. *IOP Conference Series: Earth and Environmental Science*, 1188(1). <https://doi.org/10.1088/1755-1315/1188/1/012039>
- Aýun, Q., Muthiáh, S. N., & Sukmalara, D. (2023). Potensi Bakteri Asam Laktat (BAL) dari Jus Tempe sebagai Kandidat Probiotik. *Jurnal Al-Azhar Indonesia Seri Sains Dan Teknologi*, 8(2), 171. <https://doi.org/10.36722/sst.v8i2.1673>
- Batubara, P. A. P., Desniar, D., & Setyaningsih, I. (2019). Pengaruh Starter Bakteri

- Asam Laktat Probiotik terhadap Perubahan Kimiawi dan Mikrobiologis Rusip. *Jurnal Teknologi Dan Industri Pangan*, 30(1), 28–35. <https://doi.org/10.6066/jtip.2019.30.1.28>
- Bogicevic, B., Portmann, R., Bavan, T., Meile, L., & Irmeler, S. (2016). Cysteine Biosynthesis in *Lactobacillus casei* : Identification and Characterization of a Serine Acetyltransferase. *FEMS Microbiology Letters*, 363, 1–7. <https://doi.org/10.1093/femsle/fnw012>
- Caballero Cerbon, D. A., Gebhard, L., Dokuyucu, R., Ertl, T., Härtl, S., Mazhar, A., & Weuster-Botz, D. (2024). Challenges and Advances in the Bioproduction of L-Cysteine. *Molecules*, 29(2), 486.
- Cai, H., Tao, L., Zhou, X., Liu, Y., Sun, D., Ma, Q., Yu, Z., & Jiang, W. (2024). Lactic Acid Bacteria in Fermented Fish: Enhancing Flavor and Ensuring Safety. *Journal of Agriculture and Food Research*, 16(May), 101206. <https://doi.org/10.1016/j.jafr.2024.101206>
- Carolina, F., Nastiti, K., & Rizali, M. (2022). Thin Layer Chromatography of Secondary Metabolite Profiles and Determination of Total Flavonoid Levels of the Sawi Langit (*Vernonia cinerea* L.) Extract that Growing on Peatlands. *Journal of Advances in Medicine and Pharmaceutical Sciences (JAMAPS)*, 1(1), 23–31. <https://doi.org/10.36079/lamintang.jamaps-0101.427>
- Chilambi, G. S., Nordstrom, H. R., Evans, D. R., Kowalski, R. P., Dhaliwal, D. K., Jhanji, V., Shanks, R. M. Q., & Id, D. V. T. (2021). Genomic and Phenotypic Diversity of *Enterococcus faecalis* Isolated from Endophthalmitis. *PLoS ONE*, 16(4), 1–16. <https://doi.org/10.1371/journal.pone.0250084>
- Ding, Y., Yan, C., Dai, W., Wang, Y., Liu, S., Zheng, R., & Zhou, X. (2023). Flavor Improving Effects of Cysteine n Xylose–Glycine–Fish Waste Protein Hydrolysates (FPHs) Maillard Reaction System. *Bioresources and Bioprocessing*, 10(1), 95.
- Dosuky, A. S., Elsayed, T. R., Yousef, E. T., Barakat, O. S., & Nasr, N. F. (2022). Isolation, identification, and Application of Lactic Acid-Producing Bacteria Using Salted Cheese Whey Substrate and Immobilized Cells Technology. *Journal of Genetic Engineering and Biotechnology*, 20(1), 26. <https://doi.org/10.1186/s43141-022-00316-5>
- El Ahmadi, K., Haboubi, K., El Allaoui, H., El Hammoudani, Y., Bouhrim, M., Eto, B., Shahat, A. A., & Herqash, R. N. (2025). Isolation and Preliminary Screening of Lactic Acid Bacteria for Antimicrobial Potential from Raw Milk. *Frontiers in Microbiology*, 16(March), 1–13. <https://doi.org/10.3389/fmicb.2025.1565016>
- Fadila, F., Bahrudin, S. S. A., Juhartini, J., & Ekaputri, N. (2024). Kandungan Zat Besi dan Asam Glutamat pada Bubuk Penyedap Madidihang di Kota Ternate. *Hospital Majapahit*, 16(2), 191–203.

- Fadilla, A. I., Maherawati, M., & Fadly, D. (2025). Aktivitas Antimikroba Isolat Bakteri Asam Laktat dari Pekasam. *Akuatika Indonesia*, 10(1), 68–76. <https://doi.org/10.24198/jaki.v10i1.54049>
- Fahimitabar, A., Razavian, S. M. H., & Rezaei, S. A. (2021). Application of RSM for Optimization of Glutamic Acid Production by *Corynebacterium glutamicum* in Bath Culture. *Heliyon*, 7(6), e07359. <https://doi.org/10.1016/j.heliyon.2021.e07359>
- Faturochman, H. Y., Harningsih, R., Studi, P., Pangan, T., Bakti, U., & Husada, T. (2024). Potensi Bakteri Asam Laktat Indigenous Penghidrolisis Gluten Sebagai Bakteri Probiotik pada Produk Yoghurt. *Jurnal Sains dan Teknologi Pangan*, 9(6), 7932–7939.
- Finanda, A., Hadari Nawawi, J. H., & Barat, K. (2021). Isolasi dan Karakterisasi Genus Bakteri Asam Laktat dari Fermentasi Daging Buah Pisang Kepok (*Musa paradisiaca* L.). *Protobiont*, 10(2), 37–41.
- Giacon, T. G., de Gois e Cunha, G. C., Eliodório, K. P., Oliveira, R. P. de S., & Basso, T. O. (2022). Homo- and Heterofermentative Lactobacilli are Distinctly Affected by Furanic Compounds. *Biotechnology Letters*, 44(12), 1431–1445. <https://doi.org/10.1007/s10529-022-03310-6>
- Goa, T., Beyene, G., Mekonnen, M., & Gorems, K. (2022). Isolation and Characterization of Lactic Acid Bacteria from Fermented Milk Produced in Jimma Town, Southwest Ethiopia, and Evaluation of their Antimicrobial Activity against Selected Pathogenic Bacteria. *International Journal of Food Science*, 2022, 1–15. <https://doi.org/10.1155/2022/2076021>
- Gunkova, P. I., Buchilina, A. S., Maksimiuk, N. N., Bazarnova, Y. G., & Girel, K. S. (2021). Carbohydrate Fermentation Test of Lactic Acid Starter Cultures. *IOP Conference Series: Earth and Environmental Science*, 852(1). <https://doi.org/10.1088/1755-1315/852/1/012035>
- Handayani, R., Sulistiani, & Setianingrum, N. (2016). Identifikasi Produksi GABA dari Kultur Bakteri Asam Laktat (BAL) dengan Metode TLC. *Prosiding Seminar Nasional Masyarakat Biodiversitas Indonesia Indonesia*, 2(3), 208–213. <https://doi.org/10.13057/psnmbi/m020215>
- Hussein, M. A., Hameed, R. M., & A-A Hnewa, R. (2021). Qualitative Analysis of Standard Amino acid by Thin Layer Chromatography in examination of Inborn Errors of Metabolism. *Sci. J. Med. Res*, 5(19), 74–76. <http://www.sjomr.org>
- Ibrahim, A., Fridayanti, A., & Delvia, F. (2017). Isolasi dan Identifikasi Bakteri Asam Laktat (BAL) dari Buah Mangga (*Mangifera indica* L.). *Jurnal Ilmiah Manuntung*, 1(2), 159–163. <https://doi.org/10.51352/jim.v1i2.29>
- Ismail, I., Mubarak, F., Rasyak, R. I., Rusli, R., Fitriana, F., & Mashar, H. M. (2023). Isolasi dan Uji Aktivitas Bakteri Asam Laktat dari Produk Fermentasi Kombucha Teh Dalam Menghambat Bakteri *Escherichia coli*, *Staphylococcus*

- aureus*, dan *Salmonella thypi*. *Jurnal Mandala Pharmacon Indonesia*, 9(2), 335–344. <https://doi.org/10.35311/jmpi.v9i2.386>
- Kanklai, J., Somwong, T. C., Rungsirivanich, P., & Thongwai, N. (2021). Screening of GABA-Producing Lactic Acid Bacteria from Thai Fermented Foods and Probiotic Potential of *Levilactobacillus brevis* F064A for GABA-Fermented Mulberry Juice Production. *Microorganisms*, 9(33), 1–17.
- Khan, S. A., Liu, L., Lai, T., Zhang, R., Wei, Z., Xiao, J., Deng, Y., & Zhang, M. (2018). Phenolic Profile, Free Amino Acids Composition and Antioxidant Potential of Dried Longan Fermented by Lactic Acid Bacteria. *Journal of Food Science and Technology*, 55(12), 4782–4791. <https://doi.org/10.1007/s13197-018-3411-8>
- Kondoh, M., & Hirasawa, T. (2019). l-Cysteine Production by Metabolically Engineered *Corynebacterium glutamicum*. *Applied Microbiology and Biotechnology*, 103(6), 2609–2619.
- Kristianti, D., Siahaan, P., & Tangapo, A. M. (2023). Karakterisasi dan Uji Produksi IAA Bakteri Rizosfer dari Tanaman. *Jurnal Ilmu Alam Dan Lingkungan*, 14(2), 29–37.
- Kubec, R., & Dadáková, E. (2009). Chromatographic Methods for Determination of S-Substituted Cysteine Derivatives-A Comparative Study. *Journal of Chromatography A*, 1216(41), 6957–6963. <https://doi.org/10.1016/j.chroma.2009.08.032>
- Ladensi, M. A., Winarti, S., & Wicaksono, L. A. (2024). Pengaruh Konsentrasi Garam dan Lama Fermentasi Terhadap Karakteristik Fisikokimia dan Kandungan Asam Glutamat Terasi Nabati dari Tempe Gembus. *Jurnal Sains Dan Teknologi Pangan*, 9(4), 7588–7602.
- Li, W., Zhou, Z., & Wang, D. (2023). Recent Advances, Challenges, and Metabolic Engineering Strategies in L-Cysteine Biosynthesis. *Fermentation*, 9(9), 802.
- Ma, Y., Chen, M., Huang, K., & Chang, W. (2025). The Impact of Cysteine on Lifespan in Three Model Organisms: A Systematic Review and Meta-Analysis. *Aging Cell*, 24(2), 1–14. <https://doi.org/10.1111/acel.14392>
- Madushanka, D., Vidanarachchi, J. K., Kodithuwakku, S., Nayanajith, G. R. A., Jayatilake, S., & Priyashantha, H. (2025). Isolation and Characterization of Probiotic Lactic Acid Bacteria from Fermented Traditional Rice for Potential Applications in Food and Livestock Production. *Applied Food Research*, 5(1), 100865. <https://doi.org/10.1016/j.afres.2025.100865>
- Martono, Y., Danriani, L. D., & Hartini, S. (2016). The effect of fermentation on protein content and amino acids of fortified dried-cassava flour-soybean (Glycine Max (L)) flour. *Jurnal Agritech*, 36(01), 56–63.
- Maslami, V., Marlida, Y., & S Nur, dan Y. (2018). Isolasi Bakteri Asam Laktat (BAL) Penghasil Asam Glutamat dari Ikan Budu sebagai Feed Suplemen

- Ayam Broiler. *Jurnal Peternakan Indonesia*, 20(1), 29–36.
- Melia, S., Purwati, E., Kurnia, Y. F., & Pratama, D. R. (2019). Antimicrobial Potential of *Pediococcus acidilactici* From Bekasam, Fermentation of Sepat Rawa Fish (*Tricopodus trichopterus*) from Banyuasin, South Sumatra, Indonesia. *Biodiversitas*, 20(12), 3532–3538. <https://doi.org/10.13057/biodiv/d201210>
- Miftachurrochmah, A., Fibrianto, K., & Bakti Sunarharum, W. (2024). Bekasam, an Indonesian Unique Traditional Fermented Fish as Umami Sources. *Advances in Food Science, Sustainable Agriculture and Agroindustrial Engineering*, 7(2), 158–168. <https://doi.org/10.21776/ub.afssae.2024.007.02.5>
- Mohammad, A., Siddiq, A., Moheman, A., & El-Desoky, G. E. (2013). Aqueous Urea Solution Promoted Resolution of Five-Component Mixture of Amino Acids on Silica TLC Plates. *Journal of Planar Chromatography - Modern TLC*, 26(1), 31–36. <https://doi.org/10.1556/JPC.26.2013.1.5>
- Mokoena, M. P. (2017). Lactic Acid Bacteria and Their Bacteriocins: Classification, Biosynthesis and Applications Against Uropathogens: A Mini-Review. *Molecules*, 22(8), 1255.
- Mortensen, A., Aguilar, F., Crebelli, R., Di Domenico, A., Dusemund, B., Frutos, M. J., Galtier, P., Gott, D., Gundert-Remy, U., Leblanc, J. C., Lindtner, O., Moldeus, P., Mosesso, P., Parent-Massin, D., Oskarsson, A., Stankovic, I., Waalkens-Berendsen, I., Woutersen, R. A., Wright, M., Younes, M., Boon, P., Chrysafidis, D., Gurtler, R., Tobback, P., Altieri, A., Rincon, A. M., & Lambré, C. (2017). Re-evaluation of glutamic acid (E 620), sodium glutamate (E 621), potassium glutamate (E 622), calcium glutamate (E 623), ammonium glutamate (E 624) and magnesium glutamate (E 625) as food additives. *EFSA Journal*, 15(7). <https://doi.org/10.2903/j.efsa.2017.4910>
- Muthi'ah, S. N., & Jannah, M. (2023). Analisis Filogenetik Pada Spesies Jeruk (*Citrus* spp.) Berdasarkan Sekuens IITS secara In Silico. *Bio Sains: Jurnal Ilmiah Biologi*, 2(2), 62–66. <https://uia.e-journal.id/biosains/about>
- Nurhikmayani, R., Daryono, B. S., & Retnaningrum, E. (2019). Isolation and Molecular Identification of Antimicrobial-Producing Lactic Acid Bacteria from Chao, South Sulawesi (Indonesia) Fermented Fish Product. *Biodiversitas*, 20(4), 1063–1068. <https://doi.org/10.13057/biodiv/d200418>
- Obioha, P. I., Ouoba, L. I. I., Anyogu, A., Awamaria, B., Atchia, S., Ojimelukwe, P. C., Sutherland, J. P., & Ghoddusi, H. B. (2021). Identification and Characterisation of the Lactic Acid Bacteria Associated with the Traditional Fermentation of Dairy Fermented Product. *Brazilian journal of microbiology*, 52(2), 869–881.
- Peralta, G., Bergamini, C., & Hynes, E. (2016). Aminotransferase and Glutamate Dehydrogenase Activities in *Lactobacilli* and *Streptococci*. *Brazilian Journal*

- of Microbiology*, 47(3), 741–748. <https://doi.org/10.1016/j.bjm.2016.04.005>
- Pessione, E., & Cirrincione, S. (2016). Bioactive Molecules Released in Food by Lactic Acid Bacteria: Encrypted Peptides and Biogenic Amines. *Front. Microbio*, 7(876), 1–19. <https://doi.org/10.3389/fmicb.2016.00876>
- Prastujati, A. U., Hilmi, M., Khusna, A., Arief, I. I., Makmur, S., & Maulida, Q. (2022). Isolation and Identification of Lactic Acid Bacteria of Bekamal (Banyuwangi Traditional Fermented Meat). *IOP Conference Series: Earth and Environmental Science*, 1020(1). <https://doi.org/10.1088/1755-1315/1020/1/012026>
- Putra, M. D. H., Putri, R. M. S., Oktavia, Y., & Ilhamdy, A. F. (2020). Characteristics of Amino Acid and Fatty Acids Bekasam Kerang Bulu (*Anadara antiquate*) in Benan Island Lingga. *Marinade*, 3(2), 159–167.
- Putri, A. L. O., & Kusdiyantini, E. (2018). Isolasi dan Identifikasi Bakteri Asam Laktat dari Pangan Fermentasi Berbasis Ikan (Inasua) yang Diperjualbelikan di Maluku-Indonesia. *Jurnal Biologi Tropika*, 1(2), 6–12. <http://ejournal2.undip.ac.id/index.php/jbt>
- Qiao, N., & Ganzle, M. G. (2026). A Genomic View on Lactic Metabolism. *Food Microbiology*, 134(104945), 1–21. <https://doi.org/10.1016/j.fm.2025.104945>
- Rahayu, H. M., & Setiadi, A. E. (2023). Isolation and Characterization of Indigenous Lactic Acid Bacteria from Pakatikng Rape, Dayak's Traditional Fermented Food. *Jurnal Penelitian Pendidikan IPA*, 9(2), 920–925. <https://doi.org/10.29303/jppipa.v9i2.2801>
- Rahayu, I. S., Budiarsa, I. M., Ashari, A., Trianto, M., Masrianih, M., & Rafiq, R. (2025). Analisis Filogenetik Lebah Tukang Kayu *Xylocopa appendiculata* Smith, 1852 Berdasarkan Gen Cytochrome Oxidase 1 (CO1). *Bioscientist: Jurnal Ilmiah Biologi*, 13(1), 531. <https://doi.org/10.33394/bioscientist.v13i1.14969>
- Rahmadana, S. T., Astuty, E., & Angkejaya, O. W. (2024). Isolation and Characterization of Lactic Acid Bacteria From Sago Wastewater As Antibacterial. *Jurnal Ilmiah Kedokteran Wijaya Kusuma*, 13(1), 15. <https://doi.org/10.30742/jikw.v13i1.3022>
- Ramadhan, A. R., Bachruddin, Z., Widodo, Erwanto, Y., & Hanim, C. (2021). Isolation and Selection of Proteolytic Lactic Acid Bacteria from Colostrum of Dairy Cattle. *IOP Conference Series: Earth and Environmental Science*, 788(1). <https://doi.org/10.1088/1755-1315/788/1/012077>
- Rizwan, D., & Masoodi, F. A. (2025). Isolation and Characterization of Lactic Acid Bacteria from Spontaneously Fermented Kohlrabi Pickle of Jammu and Kashmir, India. *Applied Food Research*, 5(2), 100973. <https://doi.org/10.1016/j.afres.2025.100973>
- Rohde, M. (2019). The Gram-Positive Bacterial Cell Wall. In *Microbiology*

Spectrum. <https://doi.org/10.1128/microbiolspec.GPP3-0044-2018>.Correspondence

- Rohman, N., & Alim, M. B. (2025). Isolation, Identification, and Evaluation of Antimicrobial of the LAB from Bekasam: The Traditional Fermented Fish in Indonesia. *Biology, Medicine, & Natural Product Chemistry*, 14(2), 897–903. <https://doi.org/10.14421/biomedich.2025.142.897-903>
- Roswiem, A. P., Suseno, D., & Septiani, T. (2022). L-Cysteine Isolation of Fleece and The Application in White Bread. *International Journal of Halal Research*, 4(2), 52–61.
- Rozalia, R., Rahayuningsih, M., & Yani, M. (2024). Peningkatan Kualitas Nira Sorgum Manis (*Sorghum bicolor* L) dan Potensinya sebagai Substrat Fermentasi Asam Glutamat. *Agrointek : Jurnal Teknologi Industri Pertanian*, 18(1), 232–238. <https://doi.org/10.21107/agrointek.v18i1.17183>
- Salsabilla, K. N., & Trimulyono, G. (2022). Test of Lactic Acid Bacteria from Fermented Kepok Banana against *Escherichia coli*. *Lentera Bio*, 11(3), 430–440. <https://journal.unesa.ac.id/index.php/lenterabio/index430>
- Sari, M., Suryanto, D., & Yurnaliza. (2018). Antimicrobial Activity of Lactic Acid Bacteria Isolated from Bekasam Against *Staphylococcus aureus* ATCC 25923, *Escherichia coli* ATCC 25922, and salmonella sp. *IOP Conference Series: Earth and Environmental Science*, 130(1), 1–7. <https://doi.org/10.1088/1755-1315/130/1/012011>
- Setiarto, R. H. B., Widhyastuti, N., & Saskiawan, I. (2017). Pengaruh Fermentasi Fungi, Bakteri Asam Laktat dan Khamir terhadap Kualitas Nutrisi Tepung Sorgum. *Agritech*, 36(4), 326–335. <https://doi.org/10.22146/agritech.16769>
- Setyawati, N., & Herdyastuti, N. (2019). Sintesis Garam Glutamat dari Ampas Tahu Secara Enzimatis. *UNESA Journal of Chemistry*, 8(3), 98–103.
- Siddiqui, S. A., Erol, Z., Rugji, J., Taşçı, F., Kahraman, H. A., Toppi, V., Musa, L., Giacinto, G. D., Bhamid, N. A., Mehdizadeh, M., & Castro-Muñoz, R. (2023). An overview of fermentation in the food industry-looking back from a new perspective. *Bioresources and bioprocessing*, 10(1), 85.
- Solieri, L., Sola, L., Vaccalluzzo, A., Randazzo, C. L., Martini, S., & Tagliazucchi, D. (2022). Characterization of Cell-Envelope Proteinases from Two *Lactocaseibacillus casei* Strains Isolated from Parmigiano Reggiano Cheese. *Biology*, 11(1). <https://doi.org/10.3390/biology11010139>
- Suoth, E. J., Mansauda, K. L., Mpila, D., & Sumantri, S. (2023). Profil Kromatogram dari Variasi Konsentrasi Pelarut Etanol Ekstrak Daun Leilem Serta Penentuan Nilai SPF. *Jurnal Chem Prog*, 16(2), 117–122.
- Swarnakumari., S., Mohan., S., Ida Christi ., V. E., Abinaya., S., & Kalaivani., S. (2024). Isolation and HPTLC Analysis of Conditional Amino Acids from the Fresh Leaves of Sessile Joyweed *Alternanthera sessilis*. *Pharmaceutical*

- Research - Recent Advances and Trends Vol. 4, 12(2), 114–129.*
<https://doi.org/10.9734/bpi/prrat/v4/6650a>
- Syahputra, A. (2016). *Evaluasi Metode Isolasi Asam Nukleat Dalam Deteksi PCR Untuk Patogen Antraknosa, Bulai, Huanglongbing Dan Mosaik* (Doctoral dissertation, IPB (Bogor Agricultural University)).
- Tadesse, B. T., Tesfaye, A., Muleta, D., Bahiru, A., Terefework, Z., & Wessel, G. (2018). Isolation and Molecular Identification of Lactic Acid Bacteria Using 16s rRNA Genes from Fermented Teff (*Eragrostis tef* (Zucc.)) Dough. *International journal of food science*, 2018(1), 8510620.
- Takagi, H., & Ohtsu, I. (2016). L-Cysteine Metabolism and Fermentation in Microorganisms. *Amino acid fermentation*, 129-151.
- Tang, H., Huang, W., & Yao, Y. F. (2023). The Metabolites of Lactic Acid Bacteria: Classification, Biosynthesis and Modulation of Gut Microbiota. *Microbial Cell*, 10(3), 49–62. <https://doi.org/10.15698/mic2023.03.792>
- Toe, C. J., Foo, H. L., Loh, T. C., & Mohamad, R. (2019). Extracellular Proteolytic Activity and Amino Acid Production by Lactic Acid Bacteria Isolated from Malaysian Foods. *International Journal of Molecular Sciences Article*, 20(1777), 1–20. <https://doi.org/10.3390/ijms20071777>
- Tran, P. Q., Bachand, S. C., Hotvedt, J. C., Kieft, K., McDaniel, E. A., McMahon, K. D., & Anantharaman, K. (2023). Physiological and Genomic Evidence of Cysteine Degradation and Aerobic Hydrogen Sulfide Production in Freshwater Bacteria. *MSystems*, 8(3). <https://doi.org/10.1128/msystems.00201-23>
- Tulini, F. L., Hymery, N., Haertlé, T., Le Blay, G., & De Martinis, E. C. P. (2016). Screening for Antimicrobial and Proteolytic Activities of Lactic Acid Bacteria Isolated from Cow, Buffalo and Goat Milk and Cheeses Marketed in the Southeast Region of Brazil. *Journal of Dairy Research*, 83(1), 115–124. <https://doi.org/10.1017/S0022029915000606>
- Wang, Y., Cao, G., Xu, D., Fan, L., Wu, X., Ni, X., Zhao, S., Zheng, P., Sun, J., & Ma, Y. (2018). A Novel *Corynebacterium glutamicum* L-Glutamate Exporter. *Applied and Environmental Microbiology*, 84(6). <https://doi.org/10.1128/AEM.02691-17>
- Wasis, N. O., Semadi Antara, N., & Wayan Gunam, I. B. (2019). Studi Viabilitas Isolat Bakteri Asam Laktat yang diisolasi dari Asinan Rebung Bambu Tabah Terhadap pH Rendah dan Garam Empedu. *Jurnal Rekayasa Dan Manajemen Agroindustri*, 7(1), 1. <https://doi.org/10.24843/jrma.2019.v07.i01.p01>
- Wendisch, V., Jorge, J., Perez-Garcia, F., & Sgobba, E. (2016). Updates on Industrial Production of Amino Acids Using *Corynebacterium glutamicum*. *World Jurnal Microbiol Biotechnol*, 32(105), 1–10. <https://doi.org/10.1007/s11274-016-2060-1>
- Yang, D., Li, C., Li, L., Wang, Y., Wu, Y., Chen, S., Zhao, Y., Wei, Y., & Wang,

- D. (2022). Novel Insight into the Formation Mechanism of Umami Peptides Based on Microbial Metabolism in Chouguiyu, A Traditional Chinese Fermented Fish. *Food Research International*, 157, 111211. <https://doi.org/10.1016/j.foodres.2022.111211>
- Yuliana, A., & Azhar, M. (2022). Isolasi dan Identifikasi Molekuler Bakteri Asam Laktat pada Dadih dengan menggunakan Gen 16S rRNA. *Natural Science*, 8(1), 72–78. <https://doi.org/10.15548/nsc.v8i1.3261>
- Zhang, C., Tan, J., He, J., Hu, Q., Li, J., & Xie, J. (2025). Effect of Lysine on the Cysteine-Xylose Maillard Reaction to Form Flavor Compounds. *Food Chemistry*, 469, 142529. <https://doi.org/10.1016/j.foodchem.2024.142529>
- Zhang, W., Han, Y., Shi, K., Wang, J., Yang, C., & Xu, X. (2022). Effect of Different Sulfur-Containing Compounds on the Structure , Sensory Properties and Antioxidant Activities of Maillard Reaction Products Obtained from *Pleurotus citrinopileatus* Hydrolysates. *Food Chemistry*, 171(142529), 1–11. <https://doi.org/10.1016/j.lwt.2022.114144>