

DAFTAR PUSTAKA

- Ahn, M. Y., Hwang, J. S., Kim, M. J., & Park, K. K. (2016). Antilipidemic effects and gene expression profiling of the glycosaminoglycans from cricket in rats on a high fat diet. *Archives of pharmacal research*, 39(7), 926–936. <https://doi.org/10.1007/s12272-016-0749-1>
- Ahn, M. Y., Hwang, J. S., Yun, E. Y., Kim, M. J., & Park, K. K. (2015). Anti-aging Effect and Gene Expression Profiling of Aged Rats Treated with *G. bimaculatus* Extract. *Toxicological research*, 31(2), 173–180. <https://doi.org/10.5487/TR.2015.31.2.173>
- Damanik, M., Rosmiati, R., Permatasari, T., Surbakti, T. A., & Ayuni, S. (2023). Ash, Protein And Salinity Analysis Of Integrated Formulation Of Herbs And Spices In Typical Simalungun “Tinuktuk” North Sumatera-Indonesia. *International Journal of Health and Pharmaceutical (IJHP)*, 3(3), 545-549.
- Dimidi, E., Cox, S. R., Rossi, M., & Whelan, K. (2019). Fermented Foods: Definitions and Characteristics, Impact on the Gut Microbiota and Effects on Gastrointestinal Health and Disease. *Nutrients*, 11(8), 1806. <https://doi.org/10.3390/nu11081806>
- Effah-Manu, L., Wireko-Manu, F. D., Agbenorhevi, J. K., Maziya-Dixon, B., & Oduro, I. N. (2023). Gender-Disaggregated Consumer Testing and Descriptive Sensory Analysis of Local and New Yam Varieties. *Foods (Basel, Switzerland)*, 12(3), 537. <https://doi.org/10.3390/foods12030537>
- Fellendorf, S., O'Sullivan, M. G., & Kerry, J. P. (2016). Effect of different salt and fat levels on the physicochemical properties and sensory quality of black pudding. *Food science & nutrition*, 5(2), 273–284. <https://doi.org/10.1002/fsn3.390>
- Ganogpichayagrai, A., & Suksaard, C. (2020). Proximate composition, vitamin and mineral composition, antioxidant capacity, and anticancer activity of *Acanthopanax trifoliatum*. *Journal of advanced pharmaceutical technology & research*, 11(4), 179–183. https://doi.org/10.4103/japtr.JAPTR_61_20
- Giyatmi, & Irianto, H. E. (2017). Enzymes in Fermented Fish. *Advances in food and nutrition research*, 80, 199–216. <https://doi.org/10.1016/bs.afnr.2016.10.004>
- Helmi, H., Astuti, D. I., Putri, S. P., Sato, A., Laviña, W. A., Fukusaki, E., & Aditiawati, P. (2022). Dynamic Changes in the Bacterial Community and Metabolic Profile during Fermentation of Low-Salt Shrimp Paste (Terasi). *Metabolites*, 12(2), 118. <https://doi.org/10.3390/metabo12020118>
- Holman, B. W. B., Bailes, K. L., Meyer, R. G., & Hopkins, D. L. (2019). Effect of modified Soxhlet (Soxtec) and Folch extraction method selection on the total

- lipid determination of aged beef. *Journal of food science and technology*, 56(8), 3957–3961. <https://doi.org/10.1007/s13197-019-03878-4>
- Kim H. Y. (2014). Analysis of variance (ANOVA) comparing means of more than two groups. *Restorative dentistry & endodontics*, 39(1), 74–77. <https://doi.org/10.5395/rde.2014.39.1.74>
- Kim T. K. (2017). Understanding one-way ANOVA using conceptual figures. *Korean journal of anesthesiology*, 70(1), 22–26. <https://doi.org/10.4097/kjae.2017.70.1.22>
- Kim Y.-B., Choi Y.-S., Ku S.-K., Jang D.-J., Ibrahim H.H., Moon K.B. (2014). Comparison of quality characteristics between belacan from Brunei Darussalam and Korean shrimp paste. *Journal of Ethnic Foods*, 1(1), 19-23. doi: 10.1016/j.jef.2014.11.006
- Kim, T. K., Yong, H. I., Kim, Y. B., Kim, H. W., & Choi, Y. S. (2019). Edible Insects as a Protein Source: A Review of Public Perception, Processing Technology, and Research Trends. *Food science of animal resources*, 39(4), 521–540. <https://doi.org/10.5851/kosfa.2019.e53>
- Kleekayai, T., Saetae, D., Wattanachaiyingyong, O., Tachibana, S., Yasuda, M., & Suntornsuk, W. (2015). Characterization and in vitro biological activities of Thai traditional fermented shrimp pastes. *Journal of food science and technology*, 52(3), 1839–1848. <https://doi.org/10.1007/s13197-014-1528-y>
- Lee, S. H., Jung, J. Y., & Jeon, C. O. (2014). Microbial successions and metabolite changes during fermentation of salted shrimp (saeu-jeot) with different salt concentrations. *PloS one*, 9(2), e90115. <https://doi.org/10.1371/journal.pone.0090115>
- Li, W., Lu, H., He, Z., Sang, Y., & Sun, J. (2021). Quality characteristics and bacterial community of a Chinese salt-fermented shrimp paste. *LWT*, 136, 110358.
- Li, X., Zhang, Y., Ma, X., Zhang, G., & Hou, H. (2023). Effects of a Novel Starter Culture on Quality Improvement and Putrescine, Cadaverine, and Histamine Inhibition of Fermented Shrimp Paste. *Foods (Basel, Switzerland)*, 12(15), 2833. <https://doi.org/10.3390/foods12152833>
- Mæhre, H. K., Dalheim, L., Edvinsen, G. K., Elvevoll, E. O., & Jensen, I. J. (2018). Protein Determination-Method Matters. *Foods (Basel, Switzerland)*, 7(1), 5. <https://doi.org/10.3390/foods7010005>
- Magara, H. J. O., Niassy, S., Ayieko, M. A., Mukundamago, M., Egonyu, J. P., Tanga, C. M., Kimathi, E. K., Ongere, J. O., Fiaboe, K. K. M., Hugel, S., Orinda, M. A., Roos, N., & Ekese, S. (2021). Edible Crickets (Orthoptera) Around the World: Distribution, Nutritional Value, and Other Benefits-A

- Review. *Frontiers in nutrition*, 7, 537915. <https://doi.org/10.3389/fnut.2020.537915>
- Magara, H. J. O., Niassy, S., Ayieko, M. A., Mukundamago, M., Egonyu, J. P., Tanga, C. M., Kimathi, E. K., Ongere, J. O., Fiaboe, K. K. M., Hugel, S., Orinda, M. A., Roos, N., & Ekesi, S. (2021). Edible Crickets (Orthoptera) Around the World: Distribution, Nutritional Value, and Other Benefits-A Review. *Frontiers in nutrition*, 7, 537915. <https://doi.org/10.3389/fnut.2020.537915>
- Marco, M. L., Heeney, D., Binda, S., Cifelli, C. J., Cotter, P. D., Foligné, B., Gänzle, M., Kort, R., Pasin, G., Pihlanto, A., Smid, E. J., & Hutkins, R. (2017). Health benefits of fermented foods: microbiota and beyond. *Current opinion in biotechnology*, 44, 94–102. <https://doi.org/10.1016/j.copbio.2016.11.010>
- Marco, M. L., Heeney, D., Binda, S., Cifelli, C. J., Cotter, P. D., Foligné, B., Gänzle, M., Kort, R., Pasin, G., Pihlanto, A., Smid, E. J., & Hutkins, R. (2017). Health benefits of fermented foods: microbiota and beyond. *Current opinion in biotechnology*, 44, 94–102. <https://doi.org/10.1016/j.copbio.2016.11.010>
- Marques, C., Correia, E., Dinis, L. T., & Vilela, A. (2022). An Overview of Sensory Characterization Techniques: From Classical Descriptive Analysis to the Emergence of Novel Profiling Methods. *Foods (Basel, Switzerland)*, 11(3), 255. <https://doi.org/10.3390/foods11030255>
- Mathur, H., Beresford, T. P., & Cotter, P. D. (2020). Health Benefits of Lactic Acid Bacteria (LAB) Fermentates. *Nutrients*, 12(6), 1679. <https://doi.org/10.3390/nu12061679>
- McCleary, B. V., & McLoughlin, C. (2022). Determination of Insoluble, Soluble, and Total Dietary Fiber in Foods Using a Rapid Integrated Procedure of Enzymatic-Gravimetric-Liquid Chromatography: First Action 2022.01. *Journal of AOAC International*, 106(1), 127–145. <https://doi.org/10.1093/jaoacint/qsac098>
- Miranda, C., Contente, D., Igrejas, G., Câmara, S. P. A., Dapkevicius, M. L. E., & Poeta, P. (2021). Role of Exposure to Lactic Acid Bacteria from Foods of Animal Origin in Human Health. *Foods (Basel, Switzerland)*, 10(9), 2092. <https://doi.org/10.3390/foods10092092>
- Mishra, M., Arukha, A. P., Patel, A. K., Behera, N., Mohanta, T. K., & Yadav, D. (2018). Multi-Drug Resistant Coliform: Water Sanitary Standards and Health Hazards. *Frontiers in pharmacology*, 9, 311. <https://doi.org/10.3389/fphar.2018.00311>

- Mishra, P., Pandey, C. M., Singh, U., Gupta, A., Sahu, C., & Keshri, A. (2019). Descriptive statistics and normality tests for statistical data. *Annals of cardiac anaesthesia*, 22(1), 67–72. https://doi.org/10.4103/aca.ACA_157_18
- Mitthaotai, J., Grabowski, N. T., Lertpatarakomol, R., Trairatapiwan, T., Chhay, T., Keo, S., & Lukkananukool, A. (2022). Production Performance and Nutrient Conversion Efficiency of Field Cricket (*Gryllus bimaculatus*) in Mass-Rearing Conditions. *Animals : an open access journal from MDPI*, 12(17), 2263. <https://doi.org/10.3390/ani12172263>
- Mokoena, M. P., Omatola, C. A., & Olaniran, A. O. (2021). Applications of Lactic Acid Bacteria and Their Bacteriocins against Food Spoilage Microorganisms and Foodborne Pathogens. *Molecules* (Basel, Switzerland), 26(22), 7055. <https://doi.org/10.3390/molecules26227055>
- Murti, R.W., Sumardianto. Purnamayati, L. Pengaruh Perbedaan Konsentrasi Garam terhadap Asam Glutamat Terasi Udang Rebon (*Acetes* sp.). *Jurnal Pengolahan Hasil Perikanan Indonesia* 24 (1): 50 – 59
- Murugu, D. K., Onyango, A. N., Ndiritu, A. K., Osuga, I. M., Xavier, C., Nakimbugwe, D., & Tanga, C. M. (2021). From Farm to Fork: Crickets as Alternative Source of Protein, Minerals, and Vitamins. *Frontiers in nutrition*, 8, 704002. <https://doi.org/10.3389/fnut.2021.704002>
- Nasional, B. S. (2016). Terasi Udang. SNI 2716.2016.
- Odonkor, S. T., & Mahami, T. (2020). *Escherichia coli* as a Tool for Disease Risk Assessment of Drinking Water Sources. *International journal of microbiology*, 2020, 2534130. <https://doi.org/10.1155/2020/2534130>
- Phesatcha, B., Phesatcha, K., Viennaxay, B., Matra, M., Totakul, P., & Wanapat, M. (2022). Cricket Meal (*Gryllus bimaculatus*) as a Protein Supplement on In Vitro Fermentation Characteristics and Methane Mitigation. *Insects*, 13(2), 129. <https://doi.org/10.3390/insects13020129>
- Phewpan, A., Phuwaprisirisan, P., Takahashi, H., Ohshima, C., Lopetcharat, K., Techaruvichit, P., & Keeratipibul, S. (2020). Microbial diversity during processing of Thai traditional fermented shrimp paste, determined by next generation sequencing. *LWT*, 122, 108989.
- Pilapil, A. R., Neyrinck, E., Deloof, D., Bekaert, K., Robbens, J., & Raes, K. (2016). Chemical quality assessment of traditional salt-fermented shrimp paste from Northern Mindanao, Philippines. *Journal of the science of food and agriculture*, 96(3), 933–938. <https://doi.org/10.1002/jsfa.7167>
- Pongsetkul, J., Benjakul, S., Sampavapol, P., Osako, K., & Faithong, N. (2015). Chemical compositions, sensory and antioxidative properties of salted shrimp paste (Ka-pi) in Thailand. *International Food Research Journal*, 22(4).

- Prihanto, A. A., Nurdiani, R., Jatmiko, Y. D., Firdaus, M., & Kusuma, T. S. (2021). Physicochemical and sensory properties of terasi (an Indonesian fermented shrimp paste) produced using *Lactobacillus plantarum* and *Bacillus amyloliquefaciens*. *Microbiological research*, 242, 126619. <https://doi.org/10.1016/j.micres.2020.126619>
- Roslina, W., Mahadi, I., Wulandari, S. 2022. Pengaruh Konsentrasi Garam dan Lama Fermentasi terhadap Kualitas Terasi Udang Rebon sebagai Rancangan Booklet Bioteknologi SMA. *Jurnal Biogenesis* 18 (2): 85 – 97
- Rusmiyati, A., Susanti, R., Iswari, R.S., Kusumawardani, N. 2022. Pengaruh Kadar Garam dan Jenis Kemasan terhadap Mutu Terasi Rebon. *Life Science* 11 (1) 2022
- Sakanti, H.R., Sumardianto, Rianingsih, L. 2013. Pengaruh Konsentrasi Garam dan Lama Fermentasi pada Proses Pengolahan Terasi Udang Rebon (*Acetes sp.*) terhadap Kandungan Asam Glutamat. *Jurnal Pengolahan Hasil Perikanan* 2 (2): 27 - 36
- Sanders E. R. (2012). Aseptic laboratory techniques: plating methods. *Journal of visualized experiments : JoVE*, (63), e3064. <https://doi.org/10.3791/3064>
- Schoch CL, et al. 2020. *NCBI Taxonomy: a comprehensive update on curation, resources and tools. Database (Oxford)*. PubMed: 32761142 PMC: PMC7408187.
- Selvam A. B. (2010). Can the term Phytosensology be preferred over the term Organoleptic?. *Pharmacognosy research*, 2(4), 271–272. <https://doi.org/10.4103/0974-8490.69131>
- Siddiqui, S. A., Erol, Z., Rugji, J., Taşçı, F., Kahraman, H. A., Toppi, V., Musa, L., Di Giacinto, G., Bahmid, 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. <https://doi.org/10.1186/s40643-023-00702-y>
- Sinha, R., & Khare, S. K. (2014). Protective role of salt in catalysis and maintaining structure of halophilic proteins against denaturation. *Frontiers in microbiology*, 5, 165. <https://doi.org/10.3389/fmicb.2014.00165>
- Smith, J. 2020. The Impact of Visual Attributes on Food Perception and Quality Assessment. *Journal of Food Science*, 85(4), 1234-1240.
- Stull, V. J., Finer, E., Bergmans, R. S., Febvre, H. P., Longhurst, C., Manter, D. K., Patz, J. A., & Weir, T. L. (2018). Impact of Edible Cricket Consumption on Gut Microbiota in Healthy Adults, a Double-blind, Randomized Crossover Trial. *Scientific reports*, 8(1), 10762. <https://doi.org/10.1038/s41598-018-29032-2>

- Teng, T. S., Chin, Y. L., Chai, K. F., & Chen, W. N. (2021). Fermentation for future food systems: Precision fermentation can complement the scope and applications of traditional fermentation. *EMBO reports*, 22(5), e52680. <https://doi.org/10.15252/embr.202152680>
- Tworzydło, W., & Bilinski, S. M. (Eds.). (2019). *Evo-Devo: Non-model Species in Cell and Developmental Biology. Results and Problems in Cell Differentiation*. doi:10.1007/978-3-030-23459-1
- Utami, F. & Miranti, M. (2020). Metode Most Probable Number (MPN) sebagai Dasar Uji Kualitas Air Sungai Rengganis dan Pantai Timur Pangandaran dari Cemaran Coliform dan *Escherichia coli*. *Jurnal Kesehatan Bakti Tunas Husada: Jurnal Ilmu-ilmu Keperawatan, Analisis Kesehatan dan Farmasi*, 20(1), 21-30.
- Valente, J., Godinho, L., Pintado, C., Baptista, C., Kozlova, V., Marques, L., Fred, A., & Plácido da Silva, H. (2021). Neuroorganoleptics: Organoleptic Testing Based on Psychophysiological Sensing. *Foods* (Basel, Switzerland), 10(9), 1974. <https://doi.org/10.3390/foods10091974>
- Van Huis A, Van Itterbeeck J, Klunder H, Mertens E, Halloran A, Muir G, et al. *Edible Insects: Future Prospects for Food and Feed Security (No. 171)*. Rome: Food and Agriculture Organization of the United Nations; (2013). p. 201.
- Wijaya, A. A., Hamid, I. S., Yunita, M. N., Tyasningsih, W., & Praja, R. N. (2021). Uji Most Probable Number *Escherichia Coli* pada Susu Sapi Segar di KPSP Ijen Makmur, Licin, Banyuwangi. *Jurnal Medik Veteriner*, 4(2), 207-212.
- Worku, A., & Sahu, O. (2017). Significance of fermentation process on biochemical properties of *Phaseolus vulgaris* (red beans). *Biotechnology reports* (Amsterdam, Netherlands), 16, 5–11. <https://doi.org/10.1016/j.btre.2017.09.001>
- Zapaśnik, A., Sokołowska, B., & Bryła, M. (2022). Role of Lactic Acid Bacteria in Food Preservation and Safety. *Foods* (Basel, Switzerland), 11(9), 1283. <https://doi.org/10.3390/foods11091283>
- Zhang, K., Zhang, T. T., Guo, R. R., Ye, Q., Zhao, H. L., & Huang, X. H. 2023. The regulation of key flavor of traditional fermented food by microbial metabolism: A review. *Food chemistry: X*, 19, 100871. <https://doi.org/10.1016/j.fochx.2023.100871>
- Zhang, P., Tang, F., Cai, W., Zhao, X., Shan, C. 2022. Evaluating the Effect of Lactic Acid Bacteria Fermentation on Quality, Aroma, and Metabolites of Chickpea Milk. *Frontiers in Nutrition* 9: 1069714