

DAFTAR PUSTAKA

- Allerberger, F. 2002. "Listeria: growth, phenotypic differentiation and molecular microbiology". *FEMS Immunol. Med. Microbiol.*, 35 (3), 183-189
- Al Ramahi, R., Zaid, A. N., Abu-Khalaf, N., 2019. "Evaluating the potential use of electronic tongue in early identification and diagnosis of bacterial infections". *Infect and Drug Resistance*, 12, 2445-2451
- Arca V da C, Peres AM, Machado AASC, Bona E, and Dias LG. 2019. "Sugars' Quantifications Using a potentiometric Electronic Tongue with cross-Selective Sensors: Influence of an Ionic Background". *Chemosensors*.7(4), 1-16
- Arisanti, R. R., Indriani, C., Wilopo, S. A. 2018. "Kontribusi agen dan factor penyebab kejadian luar biasa keracunan pangan di Indonesia: kajian sistematis". *Berita Kedokteran Masyarakat* vol 32 (3); 99-106
- Arora, S., Agqwal, R.K., Bist, B. 2006. "Comparison of ELISA and PCR vis- a- Vis cultural methods for detecting *Aeromonas* spp. in foods of animal origin". *Int. J. Food Microbiol* 106, 177 – 183
- Astantri, P. F., Prakoso, W. S. A., Triyana, K., Untari, T., Airin, C. M., & Astuti, P. 2020. "Lab-Made Electronic Nose for Fast Detection of *Listeria monocytogenes* and *Bacillus cereus*". *Vet Sci*, 7(1): 1-11
- Badan Standarisasi Nasional. 2014. Standar Nasional Indonesia 3950:2014. Susu UHT (Ultra High Temperature). Badan Standardisasi Nasional Indonesia. Jakarta: Badan Standardisasi Nasional Indonesia.
- Badan Standarisasi Nasional. 2012. Standar Nasional Indonesia 2897:2008. Mikrobiologi bahan pangan dan pakan- Metode horizontal untuk deteksi dan enumerasi *Listeria monocytogenes*- Bagian 1: Metode deteksi. Badan Standardisasi Nasional Indonesia. Jakarta: Badan Standardisasi Nasional Indonesia.
- Badan Standarisasi Nasional. 2008. Standar Nasional Indonesia ISO 11290-1:2012. Metode pengujian cemaran mikroba dalam daging, telur dan susu, serta hasil olahannya. Badan Standardisasi Nasional Indonesia. Jakarta: Badan Standardisasi Nasional Indonesia
- Bahri, S., Sani, Y., Indraningsih. 2006. "Beberapa faktor yang mempengaruhi keamanan pangan asal ternak di Indonesia". *Wartazoa* 16(I), 1-13

- Balakrisnama, S., Ganapathiraju, A. 1998. "Linear Discriminant Analysis - A Brief Tutorial". *Institute for Signal and Information Processing* pp 1-8
- Balasubramanian, S., Panigrahi, s., Logue, C.M., Marchello, M., Sherwood, J.S. 2005. "Identification of salmonella-inoculated beef using a portable electronic nose system". *J. Rapid Methods Autom. Microbiol.*, 13 (2), 71–95
- Bayle, D.J., Morrison, P.D., Palombo, E. A. 2014. "Detection of *Listeria* in milk using non-targeting metabolic profiling of *Listeria monocytogenes*: A proof-of-concept application". *Food Control* 42, 343-346
- Bintsis, Thomas. 2017. "Foodborne pathogens". *AIMS Microbiology*, 3(3), 529-563.
- Buchanan, R. L., Gorris, L. G. M., Hayman, M. M., Jackson, T. C., & Whiting, R. C. (2017). "A review of *Listeria monocytogenes*: An update on outbreaks, virulence, dose-response, ecology, and risk assessments". *Food Control*, 75, 1–13.
- Carey, J.R., Suslick, K.S., Hulkower, K.I., Imlay, J.A., Imlay, K.R.C., Ingison, C.K., Ponder, J.B., Sen, A., Writtrig, A.E. 2011. "Rapid Identification of Bacteria with a Disposable Colorimetric Sensing Array". *J. Am. Chem. Soc.*, 133(19),7571-7576
- Carlin, C.R., Laio, J., Weller, D., Guo, X., Orsi, R., Wiedmann, M. 2021. "*Listeria cossartiae* sp. nov., *Listeria immobilis* sp. nov., *Listeria portnoyi* sp. nov. and *Listeria rustica* sp. nov., isolated from agricultural water and natural environments". *Int. J. Syst. Evol. Microbiol.*, 71 (5), 004795.
- Centers for Disease Control and Prevention (CDC). 2020. *Listeria (Listeriosis) Outbreak*. <https://www.cdc.gov/listeria/outbreaks/index.html>
- Cevallos-Cevallos, J.M., Danyluk, M.D., Reyes-De-Corcuera. 2011. "GC-MS Based Metabolomics for Rapid Simultaneous Detection of *Escherichia coli* O157:H7, *Salmonella Typhimurium*, *Salmonella Muenchen*, and *Salmonella Hartford* in Ground Beef and Chicken". *J. Food Sci.*, 76 (4), 238-246
- Ciosek, P., Wroblewski, W. 2007. "Sensor arrays for liquid sensing-electronic tongue systems". *Analyst*, 132 (10), 963-978

- Chaskes, S and Austin, R. 2015. *Stains for Light Microscopy*, dalam *Practical Handbook of Microbiology*, Diedit oleh Emanuel Goldman dan Lorrence H Green, New York: CRC Press, 46-59
- Daneshvar, M.I., dan Brooks, J. B. 1989. "Analyses of fermentation products of *Listeria* species by frequency-pulsed electron capture gas- liquid chromatography". *Can. J. Microbiol.*, Vol 35
- Desai, A.N., Amylee, A., Lawrence, C. M., Britta, L. 2019. "Changing epidemiology of *Listeria monocytogenes* outbreaks, sporadic cases, and recall globally: A review of ProMED reports from 1996 to 2018". *Int. J. Infect. Dis.*, 84, 48-53.
- Dias, L. G., Peres, A. M., Veloso, A. C. A., Reis, F. S., Vilas-Boas, M., & Machado, A. A. S. C. (2009). "An electronic tongue taste evaluation: Identification of goat milk adulteration with bovine milk". *Sensors Actuators, B Chem.*, 136(1), 209–217.
- Dias, L.G., Sequira, C., Veloso, A.C.A., Sousa, M.E.B.C., Peres, A.M. 2014. "Evaluation of healthy and sensory indexes of sweetened beverages using an electronic tongue". *Anal Chim. Acta.*, 848, 32-42.
- Dias, L.G., Veloso, A.C.A., Sousa, M.E.B.C., Estevinho, L., Machado, A.A.S.C., Peres, A. M. 2015. "A novel approach for honey pollen profile assessment using an electronic tongue and chemometric tools". *Anal Chim. Acta.*, 900, 36-45.
- Doijad, S.P., Poharkar, K.V., Kale, S.B., Kerkar, S., Kalorey, D.R., Kurkure, N.V., Rawool, D. B., Malik, S.V.S., Ahmad, R.Y., Hudel, M., Chaudhari, S.P., Abt, B., Overmann, J., Weigel, M., Hain, T., Barbuddhe, S.B and Chakraborty, T., 2018. "*Listeria goaensis* sp. nov". *International Journal of Systematic and Evolutionary Microbiology*, 68, 3285-3291. DOI 10.1099/ijsem.0.002980
- Doyle, M.P and Buchanan, R.L. 2013. *Food Microbiology Fundamentals and Frontiers*, 4th edition. ASM Press, Washington, D.C
- El-Ragehy, N., Hegazy, M.A., Abdelhamid, G., Tawfik, S.A.2018. "Validated potentiometric method for the determination of sulfacetamide sodium; application to its pharmaceutical formulations and spiked rabbit aqueous humor". *Bull. Fac. Pharmacy, Cairo Univ.*, 56 (2), 207–212
- Farber, J.M., Peterkin, P. I. 1991. "*Listeria monocytogenes*, a Food-Borne Pathogen". *Microbiology Review* Vol 55, p.476-511.

- FDA. 2019. Food and Drug Administrator. Food and Beverage. Foodborne Illness.
<https://www.fda.gov/food/foodborne-pathogens/listeria-listeriosis>
- Freitag, N.E., Port, G.C., Miner, M.D. 2009. “*Listeria monocytogenes* - from saprophyte to intracellular pathogen”. *Nat. Rev. Microbiol.*, 7(9), 263-268
- Gasanov, U., Hughes, D., & Hansbro, P. M. 2005. “Methods for the isolation and identification of *Listeria* spp. And *Listeria monocytogenes*: a review”. *FEMS Microbiol. Rev.*, 29(5), 851–875.
- Ghrissi, H., Veloso, A. C.A., Marx, I.M.G., Dias, T., and Peres, A.M. 2021. “A Potentiometric Electronic Tongue as a Discrimination Tool of Water-Food Indicator/Contamination Bacteria”. *Chemosensors*, 9, 143.
- Goldman, E dan Green, L.H. 2015. *Practical Handbook of Microbiology*. Third Edition. CRC Press. Boca Raton New York.
- Guetouache, Mourad., Guessas, Bettache and Medjekal, Samir. 2014. “Composition and nutritional value of raw milk”. *Issues Biol. Sci. Pharm. Res.*, 2(10), 115–122
- Gutierrez-Capitan, M., Santiago, J.L., Vila-Planas, J., Llobera, A., Boso, S., Gago, P., Martinez, M.C., Jimenez-Jorquera, C. 2013. “Classification and Characterization of Different White Grape Juice by Using a Hybrid Electronic tongue”. *J. Agric. Food Chem.*, 61, 9325-9332
- Hegele, J., Buetler, T., Delatour, T. 2008. “Comparative LC–MS/MS profiling of free and protein-bound early and advanced glycation-induced lysine modifications in dairy products”. *Anal. Chim. Acta.*, 617(1–2):85–96
- Kassalica, A., Vuković, V., Vranješ, A., Memiši, N., 2011. “*Listeria monocytogenes* in Milk and Dairy Products”. *Biotechnol. Anim. Husb.*, 27 (3), 1067-1082
- Kohlerschmidt, D. J., Mingle, L. A, Dumas, N. B. 2015. *Identification of Aerobic Gram-Negative Bacteria dalam Practical Handbook of Microbiology* Third edition. Diedit oleh Emanuel Goldman dan Lorrence H Green. New York. CRC Press
- Jain, H., Panchai, R., Pradhan, P., Patel, H., Pasha, T.Y. 2010. “Electronic tongue: A new Taste Sensor”. *Int. J. Pharm. Sci. Rev. Res.*, 5 (2), 91-96
- Jarboui, A., Marx, I.M.G., Veloso, A.C.A., Vilaca, D., Correia, D.M., Dias, L.G., Mekkadem, Y., Peres, A.M. 2020. “An electronic tongue as a classifier

tool for assessing perfume olfactory family and storage time-period". *Talanta*, 208, 120364

Kira, K., Rendell, L.A. 1992. "A Practical Approach to Feature Selection". *Machine Learning Proceeding* 1992, 249-256

Latha, R.S., Laksmi, P.K. 2012. "Electronic tongue: An analytical gustatory tool". *J. Adv. Pharm. Technol. Res.*, 3(1):3-8

Leclercq, A., Moura, A., Vales, G., Tessaud-Rita, N., Aguilhon, C., and Lecuit, M., 2019. "*Listeria thailandensis* sp. nov". *Int. J. Syst. Evol. Microbiol.*, 69(1), 74-81

Lever, J., Krzywinski, M., and Altman, N. 2017. "Point of Significance Principal Component Analysis". *Nature Methods* Vol.14 no 7, 641-642

Lieke, M., Dorreies, K., Meyer, H., Lalk, M. 2012. *Chapter 28. Metabolome Analysis of Gram-Positive Bacteria such as Staphylococcus aureus by GC-MS and LC-MS*. Methods in molecular biology (Clifton, N.J.) 815:377-98

Lobacz, A., Kowalik, J. 2014. "A Predictive Model for *Listeria Monocytogenes* in UHT Dairy Products with Various Fat Content During Cold Storage". *J. Food Saf.*, 35(1), 119-127

Magalhaes, R., Mena, C., Ferreira, V., Silva, J., Almeida, G., Gibbs, P., Teixeira, P. 2014^a. *Bakteria: Listeria Monocytogenes* dalam Encyclopedia of Food Safety, Volume 1. Diedit oleh Yasmine Motarjemi, Gerald Moy, Ewen Tood. Elseiver Inc

Magalhaes, R., Mena, C., Ferreira, V., Silva, J., Almeida, G., Gibbs, P., Teixeira, P. 2014^b. *Traditional Metohods for Isolation of Listeria monocytogenes dalam Listeria Monocytogenes Methods and Protocols*. Diedit oleh Kieran Jordan, Edward M. Fox, Martin Wagner. Methods in Molecular Biology 1157. Springer Protocols.

Magan, N., Pavlou, a., Chrysanthakis, I. 2001. "Milk-sense: a volatile sensing system recognizes spoilage bacteria and yeast in milk". *Sensors and Actuators B Chem.*, 72(1), 28-34

Malviya, R., Bansal, V., Pal. O.P, and Sharma, P.K. 2010. "High Performance Liquid Chromatography: A Short Review". *J. Glob. Pharma Technol.*, 2 (5), 22-26

Mathakiya, R. A., Roy, A dan Nayak, J.B. 2011. "Characterization of *Listeria monocytogenes* isolates by CAMP test". *Vet. World*, 4(7), 301-303

- Marx, I.M.G., Rodrigues, N., Veloso, A.C.A., Casal, S., Pereira, J.A., Peres, A.M. 2021. "Effect of malaxation temperature on the physicochemical and sensory quality of cv. Cobrançosa olive oil and its evaluation using an electronic tongue". *LWT*, 137, 110426
- Messai, H., Farman, M., Sarraj-Laabidi, A., Hammami-Semmar, A., Semmar, N. 2016. "Chemometrics Methods for Specificity, Authenticity and Traceability Analysis of Olive Oils: Principles, Classifications and Applications". *Foods*, 5, 77. 1-35
- Newman, K.L., Leon, J. S., Rebolledo, P.A, and Scallan, W. 2015. "The impact of socioeconomic status on foodborne illness in high income countries: A systematic review". *Epidemiol Infect.*, 143(12), 2473–2485.
- Noviyanti, F., Shimizu, S., Hosotani, Y., Koseki, S., Inatsu, Y., Kawasaki, S. 2020. "Predictive Growth Model of *Listeria monocytogenes* Under Fluctuating Temperature Conditions in Pasteurized Milk by Using Real-Time Polymerase Chain Reaction". *Foodborne Pathog. Dis.*, 17 (11), 693-700
- Núñez-Montero, K., Leclercq, A., Moura, A., Vales, G., Peraza, J., Pizarro-Cerda, J., Lecuit, M. 2018. "*Listeria costaricensis* sp. nov". *International Journal of Systematic and Evolutionary Microbiology*, 68, 844-850. DOI 10.1099/ijsem.0.002596
- Orsi, R. H., Wiedmann, M. 2016. "Mini-Review Characteristics and distribution of *Listeria* spp., including *Listeria* species newly describes since 2009". *Appl. Microbiol. Biotechnol.*, 100(12), 5273–5287
- Otto, M. 2017. *Chemometrics: Statistics and Computer Application in Analytical Chemistry*. Third ed. Weinheim, Germany: Wiley-VCH Verlag GmbH & Co
- Ouyang, Q., Yang, Y., Wu, J., Chen, Q., Guo, Z., Li, H. 2020. "Measurement of total free amino acids content in black tea using electronic tongue technology coupled with chemometrics". *LWT*, 118, 108768
- Parasuraman, S., Rao, A., Balamurugan, S., Muralidharan, s., Kumar, K. J., Vijayan, V. 2014. "An overview of liquid chromatography-mass spectroscopy instrumentation". *Pharm. Methods*, 5(2), 47–55
- Poghossian, Arshak., Geissler, H., Schöning, M.J. 2019. "Rapid methods and sensors for milk quality monitoring and spoilage detection". *Biosens. Bioelectron.*, 140, 111272

- Prahesti, K.I., Mayasari, N. L. O.I., Malaka, R., Yuliati, F.N., Pasaribu, F.H. 2017. "Isolasi dan Identifikasi Bakteri *Listeria monocytogenes* dari Susu Sapi Segar di Kabupaten Enrekang Sulawesi Selatan". *Acta Vet. Indones.*, 5(2), 57–65
- Pratiwi, D. E and Harjoko, A. 2013. "Implementasi Pengenalan Wajah Menggunakan PCA (Principal Component Analysis)". *IJEIS*, Vol.3, No.2, October, pp. 175~184.
- Kobayashi, Y., Habara, M., Ikezazki, H., Chen, R., Naito, Y and Toko, K. 2010. "Advanced Taste Sensors Based on Artificial Lipids with Global Selectivity to Basic Taste Qualities and High Correlation to Sensory Scores". *Sensors*, 10, 3411-3443; doi:10.3390/s100403411
- Ramaswamy, V., Cresence, V.M., Rejiths, J. S., Lekshmi, M.U., Dharsana, K.S., Prasad, S.P., Vijila, H. M. 2007. "Listeria- review of epidemiology and pathogenesis". *J Microbiol Immunol Infect.*, 40, 4-13
- Robinson, R.K. 2002. *Dairy Microbiology Handbook third edition*. John Willey and Sons, Inc., New York
- Rosenow, E., Marth, E. H.1987. "Growth of *Listeria monocytogenes* in Skim, Whole and Chocolate Milk, and in Whipping Cream during Incubation at 4, 8, 13, 21 and 35 °C". *J. Food Prot.*, 50(6), 452–459
- Quereda, J., Leclercq, A., Moura, A., Vales, G., Gómez-Martín, Á., Garcia-Munoz, A., Thouvenot, P., Tessaud-Rita, N., Bracq-Dieye, H., Lecuit, M. 2020. "*Listeria valentina* sp. nov., isolated from a water trough and the faeces of healthy sheep". *Int. J. Syst. Evol. Microbiol.*, 70(11), 5868–5879
- Sanaeifar, A., Hassan, Z., Abdolabbas, J., Miguel, DLG. 2017. "Early detection of contamination and defect in foodstuffs by electronic nose: A review". *TrAC - Trends Anal. Chem.*, 97, 257–271
- Schirone, M., Visciano, P. 2021. Trends of Major Foodborne Outbreaks in the European Union during the Years 2015–2019. *Hygiene*. 1(3):106–119
- Singh, H and Bennet, R.J. 2002. *Milk and Milk Processing. Dairy Microbiology Handbook*, Third Edition. John Willey and Sons, Inc., New York
- Söderström, C., Winquist, F., Krantz-Rulcker, C. 2002. "Recognition of six microbial species with an electronic tongue". *Sensors and Actuators, B Chem.*, 89 (3), 248-255
- Swaminathan, B., Gerner-Smidt, P. 2007. "The epidemiology of human listeriosis". *Microbes Infect.*, 9 (10), 1236-1243

- Tahara, Y and Toko, K. 2013. "Electronic Tongue- A Review". *IEEE Sens. J.*, 13(8), 3001–3011
- Talaro, K. P., Chess, B. 2012. *Foundations in Microbiology* Eight Edition. Mc. Grow Hill
- Tazi, I. 2017. Studi dan Pengembangan Lidah Elektronik Berbasis 16 Multikanal Sensor Membran Lipid. Disertasi.
- Tazi, I., Choiriyah, A., Siswanta, D., Triyana, K. 2017. "Detection of Taste Change of Bovine and Goat Milk In Room Ambient Using Electronic Tongue". *Indones. J. Chem.*, 17(3), 422-430
- Tazi. I., Triyana, K., Siswanta, D. 2016. "A Novel Arduino Mega 2560 Microcontroller- Based Tongue for dairy Product Classsification". AIP Conf. Proc. 1755
- Tazi, I., Triyana, K., Siswanta, D., Velosos, A. C. A., Peres, A. M., Dias, L.G. 2018. "Diary products discrimination according to the milk type using an electrochemical multisensory device coupled with chemometric tools". *J. Food Meas. Charact.*, 12, 2385-2393
- Techer, C., Baron, F., & Jan, S. (2014). *Spoilage Of Animal Products / Microbial Milk Spoilage*. Encyclopedia of Food Microbiology, 446–452.
- Thammana, M. 2016. "A Review on High Performance Liquid Chromatography (HPLC)". *Research & Reviews: J. Pharm Anal.*, 5, 22-28
- Todd, E.C.D., Notermas, S. 2011. "Surveillance of listeriosis and its causative pathogen, *Listeria monocytogenes*". *Food Control*, 22, 1484-1490
- Toko, K., Matsuno, T., Yamafuji, K., Hayasi, K., Ikezaki, H., Sato, K., Toukubo, R & Kawarai, S. 1994. "Multichannel taste sensor using electric potential changes in lipid membranes". *Biosens. Bioelectron.*, 9(4–5):359–364
- Tolba, M., Ahmed, M. U., Tlili, C., Eichenseher, F., Loessner, M. J., & Zourob, M. 2012. "A bacteriophage endolysin-based electrochemical impedance biosensor for the rapid detection of *Listeria* cells". *The Analyst*, 137(24), 5749
- van der Werf, M. J., Overkamp, K. M., Muilwijk, B., Coulier, L., & Hankemeier, T. (2007). "Microbial metabolomics: Toward a platform with full metabolome coverage". *Anal Biochem.*, 370(1), 17–25

- Vazquez-Boland, J.A., Kuhn, M., Berche, P., Chakraborty, T., Domingues-Bernal, G., Goebel, W., Gonzales-Zorn, B., Wehland, J., and Kreft, J. 2001. "Listeria Pathogenesis and Molecular Virulence Determinant". *Clin. Microbiol. Rev.*, 14, 584-627
- Velusamy, V., Arshak, K., Korostynska, O., Oliwa, K., Adley, C. 2010. "A preview of foodborne pathogen detection: In the perspective of Biosensors". *Biotechnol. Adv.*, 28 (2), 232-254
- Vaemynck, G., Lafarge, V., Scotter, S. 2000. "Improvement of the detection of *Listeria monocytogenes* by the application of ALOA, a diagnostic, chromogenic isolation medium". *J. Appl. Microbiol.*, 88, 430-441
- Võ, Uyên-Uyên T.; Morris, Michael P. (2014). "Nonvolatile, semivolatile, or volatile: Redefining volatile for volatile organic compounds". *J. Air Waste Manag. Assoc.*, 64(6):661-669
- Wallace, N., Newton, E., Abrams, E., Zani, A., Sun, Y. 2017. "Metabolic determinants in *Listeria monocytogenes* anaerobic listeriolysin O production". *Arch Microbiol*, 199 (6), 827-837
- Wei, Z., Wang, J., Zhang, X. 2013. "Monitoring of quality and storage time of unsealed pasteurized milk by voltammetric electronic tongue". *Electrochim. Acta*, 88, 231-239
- Willey, J.M., Sherwood, L.M., Woolverton, C.J. 2009. *Prescott's Principles of Microbiology*. Mc. Grow Hill
- World Health Organization. 2015. WHO's first ever global estimates of foodborne diseases find children under 5 account for almost one third of deaths. <https://www.who.int/en/news-room/detail>
- Wong, T-T. 2015. "Performance evaluation of classification algorithms by k-fold and leave-one-out cross validation". *Pattern Recognit.*, 48 (9), 2839-2846
- Wu, X., Tahara, Y., Yatabe, R., and Kiyoshi, T. 2020. "Taste Sensor; Electronic Tongue with Lipid Membranes". *Anal Sci.*, 36 (2), 147-159
- Yu, Y.; Sun, X.; Liu, Y.; Pan, Y.; Zhao, Y. 2015. "Odor Fingerprinting of *Listeria monocytogenes* Recognized by SPME-GC / MS and E-nose". *Can. J. Microbiol*, 61 (5), 367-372
- Zhang X, Zhang Y, Meng Q, Li N, Ren L. 2015. "Evaluation of Beef by Electronic Tongue System TS-5000Z: Flavor Assessment, Recognition and

Chemical Compositions According to Its Correlation with Flavor”. *PLoS One* 10(9): e0137807.

Zhi, Q, Gooneratne, R., Hussain, M.A. 2017. “Communication *Listeria monocytogenes* in Fresh Produce: Outbreaks, Prevalence and Contamination Levels”. *Foods*, 6, 2