

## DAFTAR PUSTAKA

- Adams, M.R. dan Moss, M.O. 2008. *Food Microbiology*. 2<sup>nd</sup> Ed. The Royal Society of Chemistry. Cambridge: 123-127.
- Adley C, 2006. *Food-borne pathogens: methods and protocols*. Humana Pr Inc.
- Alocilja EC. dan S.M Radke. 2003. Market analysis of biosensors for food safety. *Biosens Bioelectron* 2003;18:841–6.
- Allergerber, F., 2003. *Listeria*: Growth, phenotypic differentiation and molecular microbiology. *FEMS Immunology and Medical Microbiology* 35:183-189.
- Anggara, E.F., Widodo, T.W. dan Lelono D., 2017. Deteksi daging sapi menggunakan Electronic Nose berbasis bidirectional associative memory. *Indonesian Journal of Electronics and Instrumentation Systems*, Volume 7, 209-218.
- Arnold J.W. dan S.D. Senter., 2012. Use of digital aroma technology and SPME GC–MS to compare volatile compounds produced by bacteria isolated from processed poultry, *J. Sci of Food Agric* 78 (3) (1998) 343–348.
- Audrain, Bianca, M. A. Faraq, C.M. Ryu dan J.M. Ghigo. 2015. Role of Bacterial Volatile Compounds in Bacterial Biology. *FEMS Microbiology Reviews*. 39:2015. 222-233.
- Aznar, R. dan B. Alarcon. 2003. PCR detection of *Listeria monocytogenes*: a study of multiple factors affecting sensitivity. *Journal of Applied Microbiology* 95, 958–966.
- Badan Standardisasi Nasional (BSN). 2009. *Standar Nasional Indonesia (SNI) 7388:2009 tentang Batas Maksimum Cemaran Mikroba dalam Pangan*. Jakarta (ID): Badan Standardisasi Nasional.
- Badan Standardisasi Nasional (BSN). 2011. *Standar Nasional Indonesia nomor 3141.1:2011 mengenai susu segar-Bagian 1: Sapi*. Jakarta (ID): Badan Standarisasi Nasional.
- Badan Standardisasi Nasional (BSN). 2012. *Standar Nasional Indonesia ISO 11290-1:2012 mengenai mikrobiologi bahan pangan dan pakan – metode horizontal untuk deteksi dan enumerasi *Listeria monocytogenes* – Bagian 1: Metode deteksi*. Jakarta (ID): Badan Standarisasi Nasional.
- Bahout, AA 2000: Prevalence of *Bacillus* species in UHT milk. *Assiut-Veterinarymedical- Journal* 42: 47-53.

- Balasubramarian, S. dan Amamcharia, J.Shin. 2016. Possible Application of Electronic Nose Systems for Meat Safety : *An Overview. Electronics Noses and Tongues, Elsevier Inc.*59-71.
- Barbri, N.El., J. Mirhisse, R. Ionescu, N. El Bari, X. Correig, B. Bouchikhi, dan E. Llobet. 2009. An electronic nose system based on a micro-machined gas sensors array to asses the freshness of sardines. *Sensors and Actuators B* 141 (2009) 538-543.
- Baron, 1996. *Medical Microbiology 4<sup>th</sup> Ed.* University of Texas Medicine Branch at Galveston.
- Barlow, R.M. dan McGorum, B., 1985. Ovine listerial encephalitis: analysis, hypothesis and synthesis. *Vet Record* 116, 233–236.
- Barsan N. dan Weimar U, 2001. Conduction model of metal oxide gas sensors. *J. Electroceramics* 7, 143-67.
- Beale, David., P.D. Morrison, dan E.A. Palombo. 2014. Detection of *Listeria* in milk using non-targeted metabolic profiling of *Listeria monocytogenes*: A proof-of-concept application. *Food Cotroll: Elsevier. Hal.* 343-346.
- Bean, N. H. dan P. M. Griffin. 1990. Foodborne disease outbreaks in the United States: pathogens, vehicles, and trends. *J Food Prot.* 53. 1973–1987
- Beecher DJ, JS Pullido, NP Barney, dan AC Wong. 1995. Extracelluler Virulence factors in *Bacillus cereus* endophtalmitis: methods and implication of involvement of hemolysin BL. *Infect Immun* 63.
- Beecher DJ, dan A.C.Wong.1997. Tripartite Hemolysin BL from *Bacillus cereus* Hemolytic Analysis of Component Interaction and a Model for its Characteristic Paradoxical Zone Phenomenon. *J Biol Chem.* 272.
- Benedict, C.Robert, T.Partridge, D.Wells dan R.L. Buchanan. 1993. *Bacillus cereus*: Aerobic Growth Kinetics. *J. of Food Protection, Vol. 56, No. 3, Pages 211-214 (March 1993)*
- Bergey D. 1994. *Bergey's Manual of Determinative Bacteriology.* Baltimore (US): Waverly Pr.
- Bernabei M, G.Pennazz, M. Santortico, C.Corsi, C. Roscioni, R.Paolesse, D.Natale, A.D'Amico, 2008. A preliminary study on the possibility to diagnose urinary tract cancers by an electronic nose. *Sensor Actuators B-Chemichals* 131:1–4.
- Berrada, H., J.M.Soriano, Y.Pic., J. Mañes. 2006. Quantification of *Listeria monocytogenes* in salads by real time quantitative PCR. *International J. Food Microbiology, 107(2), 202-206.*

- Bhunia, AK, 2008. *Foodborne Microbial Pathogens: Mechanisms and Pathogenesis*. Springer-Verlag: New York. 165-182.
- Blackburn, C.W. dan McClure PJ.2005. Foodborne pathogens—hazards, risk analysis and control. *Woodhead Publishing Limited, Cambridge*, pp 423–42.
- Blampied, P.H., 1980. *Listeria monocytogenes* infection in bovine mastitis. *Veterinary Record* 107, 390–393.
- Bottone, E.J.2010. *B. cereus*, a volatile human pathogen. *Clinic Microbiology Review* 23:382–398.
- Brehm-Stecher, Brion.F, dan E.A.Johnson, 2007.Rapid Methods for detection *Listeria*. *Food science and technology-new york-marcel dekker-* 161, 257
- Brudzewskia, K., S. Osowskia, dan W. Pawlowski. 2012. Metal oxide sensor arrays for detection of explosive at sub-part-per million concentration levels by differential electronic nose. *Sensors and Actuators B* 161 (2012) 528- 533.
- Blakey,L.J.,Priest,F.G. 1980. The occurrence of *Bacillus cereus* in some dried foods including pulses and cereals. *J. App Bact* 48, 297-302.
- Buratti S, Benedetti S, Scampicchio M dan Pangerod E, 2004. Characterization and classification of Italian Barbera wines by using an electronic nose and an emperometric electronic tongue. *Anal Chim Acta* 525, 133-9.
- Burgess G, Horwood P. 2006. Development of Improved Molecular Detection Methods for *Bacillus cereus* Toxins. *Rural Industries Research and Development Corporation. Kingston*.
- Capone S, M.Epifani, F.Quaranta, P. Siciliano, A.Taurino dan L.Vasanelli, 2001. Monitoring of rancidity of milk by means of an electronic nose and a dynamic PCA analysis. *Sensors and Actuators B: Chemical* 78, 174-9.
- Cevallos-cevallos, J.M., M.D.Danyluk dan R.D.Corcurea. 2011. Gc-MS Based Metabolomic for Rapid Simultaneous Detection *E.colli*, *S.Thypimurium*, *S.Muenchen* dan *S. Hartford*. *J. of Food Sci Vol* 76.
- Chastain, C.B. dan D.L.Harris.1974. Association of *Bacillus cereus* with food poisin in Dogs. *JAVMA* 1, 164 (5) 489-490.
- Chen, J., Tang, J., Shi, H., Tang, C., dan Zhang, R. (2017). Characteristics of volatile organic compounds produced from five pathogenic bacteria by headspace-solid phase micro-extraction/gas chromatography-mass spectrometry. *J. of Basic Microbiology*, 57(3), 228–237. <https://doi.org/10.1002/jobm.201600505>

- Chiranjeevi, 2015. Implementation of Electronic Nose with TGS Gas Sensors. *International Journal for Research in Applied Science and Engineering Technology (IJRASET) IC Value: 13.98: 136-144.*
- Cipriano, D., & Capelli, L. (2019). Evolution of Electronic Noses from Research Objects to Engineered Environmental Odour Monitoring Systems: A Review of Standardization Approaches. *Biosensors*, 9(2). <https://doi.org/10.3390/bios9020075>.
- Cynkar, W., R.Damberg, P.Smith dan D. Cozzolino.2010.Classification of Tempranillo wines according to geographic origin: combination of mass spectrometry based electronic nose and chemometrics. *Anal Chim Acta* 660:227–23.
- Cooper, G.L., 1989. An encephalitic form of listeriosis in broiler chickens. *Avian Dis.*, 33: 182-185.
- Cortes, C. dan Vapnik, V. Support-Vector Networks. *Mach. Learn.* 1995, 20, 273–297.
- Davis TS, Crippen TL, dan Hofstetter RW, *et al.* Microbial volatile emissions as insect semiochemicals. *J Chem Ecol* 2013;**39**: 840–59.
- Deskhmukh, Yogita, P.Khare, dan D.D. Patra. 2014. HS-SPME-GC-FID Method For Detection and Qualification of *Bacillus cereus* ATCC 10702 Mediated 2-Acetyl-1-Pyrroline. *Biotechnology Programs*.,2014, Vol. 30, No.6. 1356-1363.
- Delgado, A. R. (2008). Listeriosis in Pregnancy. *Journal Midwifery Womens Health*. 53:255-259.
- De Buyser, M.-L., Dufour, B., Maire, M., Lafarge, V., 2001. Implication of milk and milk products in food-borne diseases in France and in different industrialized countries. *Int. Journal Food Microbiology* 67, 1-17.
- Di Natale C, A.Macagnano, E.Martinelli, R.Paolesse, G.D’Arcangelo,C. Roscioni A.Finazzi-Agro A, A.D’Amico. 2003. Lung cancer identification by the analysis of breath by means of an array of nonselective gas sensors. *Biosens Bioelectron* 18:1209–1218.
- Distante, C., Leo, M., Siciliano, P. dan Persaud, K.C., 2002, On the Study of Feature Extraction Method for an Electronic Nose, *Sensors and Actuators, B* 87, 274-288.
- Doyle MP, L.R.Beuchat, dan T.J.Montville. 2001. *Food Microbiology: Fundamental and Frontiers*. Ed 2. Washington DC (US)

- DobrokhotoV, V., L.Oakes, D.Sowell, A.Larin, J.Hall, A.Kengne, P.Bakharev, G.Corti, T.Cantrell, T.Prakas, dan J.Williams, D.N.McIlroy.2012.Toward the nanospring-based artificial olfactory system for trace-detection of flammable and explosive vapors. *Sensors Actuators B Chemicals* 168:138–148.
- Donnelly, C.W.,2001. *Food Borne Disease Handbook: Bacterial pathogens Listeria monocytogenes* 2n<sup>d</sup> edition. Marcel Dekker Inc:213 – 235.
- Dragonieri S, R.Schot, BJA.Mertens, S.Le Cessie, S.A.Gauw, A.Spanevello A, O.Resta, NP.Willard, TJ.Vink, KF.Rabe, E.H.Bel, dan P.J.Sterk PJ. 2007. An electronic nose in the discriminationmof patients with asthma and controls. *Journal Allergy Clinic Immunology* 120:856–862
- Dutta R., E.L. Hines, J.W. Gardner, dan P. Boilot, 2002. Bacteria classification using Cyranose 320 electronic nose, *Biomedical Engineering Online 1 (1) (2002) 4*.
- Dutta R, Morgan D, Baker N, Gardner JW, dan Hines EL, 2005. Identification of Staphylococcus aureus infections in hospital environment: electronic nose based approach. *Sensors and Actuators B: Chemical* 109, 355-62.
- Dwidjoseputro, D. 1998. *Dasar-dasar Mikrobiologi*. Djambatan: Jakarta. Hal:59-62
- Effmert,U., J.Kalderas, dan R.Warnke.2012. Volatile mediated interactions between bacteria and fungi in the soil. *J Chem Ecol* 2012;38:665–703.
- Ehling-Schulz,M., Fricker,M., Grallert,H., Rieck,P., Wagner,M., dan Scherer,S. 2006. Cereulide synthetase gene cluster from emetic *Bacillus cereus*: structure and location on a mega virulence plasmid related to *Bacillus anthracis* toxin plasmid pXO1357. *BMC Microbiology* 6, 20.
- Elsner, H. A., I. Sobottka, A. Bubert, H. Albrecht, R. Laufs, dan D. Mack. 1996. Catalase-negative *Listeria monocytogenes* causing lethal sepsis and meningitis in a hematologics patient. *Europe Journal Clinical Microbiology Infection Disease* 15:965–96.
- Esteban, J.I., B. Oporto, G. Aduriz, R.A. Juste dan A. Hurtado, 2009. Faecal shedding and strain diversity of *Listeria monocytogenes* in healthy ruminants and swine in Northern Spain. *BMC Vet. Res.* 5: 2 – 10.
- Evans P., K.C.Persaud, A.S.Mcneish, R.W.Sneath, N.Hobson, dan N.Magan, 2000. Evaluation of a radial basis function neural network for the determination of wheat quality from electronic nose data. *Sensors and Actuators B: Chemical* 69, 348-58.
- Farber JM, dan Peterkin PI. 1991. *Listeria monocytogenes*, a food-borne pathogen.

*Microbiol Reviews* 55(3): 476–511

FDA (Food and Drug Administration). 2012. Bacteriological Analytical Manual: *Detection and Enumeration of Listeria monocytogenes* [internet]. Diakses pada 12 Agustus 2018. Diakses 12 Agustus 2018.

Figaro USA Inc., 2005. “TGS 2600-for the Detection of Solvent Vapors”, <http://www.figarosensor.com/product/2600pdf.pdf>, Januari 2005, 25 September 2018.

Food Standard Australia and New Zealand (FSANZ). 2003. *Application A 454 : Bacillus cereus Limits in Infant Formula. Assesment Report*. Canberra – Wellington.

Gates KW, 2011. Rapid Detection and Characterization of Foodborne Pathogens by Molecular Techniques. *Journal of Aquatic Food Product Technology* 20, 108-113.

Gasanov, Derits Hughes, P.M. Hansbro, 2004. Methods for the isolation and Indentification of *Listeria* spp dan *Listeria monocytogenes* : a Review. *FEMS Microbiology Reviews* 851-875.

Gardner, J.W., dan Shin, H.W., Hines, E.L. 2000. An electronic nose system to diagnose illness. *Sensors and Actuators B: Chemical* 70, 19-24.

Gitter, M.Bradley, S.Chemburu, dan E.Wilkins, I.Abdel-Hamid.2005. Detection of pathogenic bacteria in food samples using highly-dispersed carbon particles. *Biosens Bioelectron* 2005;21:491–499.

Gouws, P.A., D.Rip. 2009. Development of an internal amplification control using multiplex PCR for the detection of *Listeria monocytogenes* in food products. *Food Anal. Methods* 2 (2009) 190–196.

Green, G., A.Chan, B.S. Luo, H. dan, M. Lin, 2009. Identification of *Listeria* species using a low-cost surface-enhanced Raman scattering system with wavelet-based signal processing, *IEEE Transactions on Instrumentation and Measurement* 58 (10) (2009) 3713–3722.

Green, G. C., Chan, A. D. C., Dan, H., & Lin, M. (2011). Using a metal oxide sensor ( MOS ) -based electronic nose for discrimination of bacteria based on individual colonies in suspension. *Sensors & Actuators: B. Chemical*, 152(1), 21–28. <https://doi.org/10.1016/j.snb.2010.09.062>

Greene, C. E. dan J. F. Prescott, 2012. Gram positive bacterial infections. In: *Infectious Diseases of The Dog and Cat*, ed C. E. Greene, Elsevier Inc., USA. pp.336.

Gutierrez-Osuna R. 2002. Pattern analysis for machine olfaction: a review, *IEEE Sensors Journal* 2 (3) (2002) 189–202.



- Gutiérrez, J., dan M.C. Horrillo. 2014. Advances in Artificial Olfaction Sensors and Applications. *Talanta* 124 (2014) 95-105.
- Gyles CL, J.F. Prescott, G.Songer, dan CO.Thoen. 2010. *Pathogenesis of Bacterial Infections in Animals 4th edition*. New Jersey (US): Wiley-Blackwell.
- Haugen JE., dan Kvaal K, 1998. Electronic nose and artificial neural network. *Meat Sci* 49, pp.273-S86.
- Harmon SM, J.M.Goepfert, dan R.W. Bennet. 1992. *Bacillus cereus. Compendium of Methods for the Microbiological Examination of Foods*. Ed 3. American Public Health Association, Washington.
- Hidayat, S. N., Triyana, K., Fauzan, I., dan Julian, T. (2019). The Electronic Nose Coupled with Chemometric Tools for Discriminating the Quality of Black Tea Samples In Situ. *Chemosensors*, 7(3), 29. <https://doi.org/10.3390/chemosensors7030029>
- Hein, I., D. Klein, A. Lehner, A. Bubert, E. Brandl, dan M. Wagner, Detection and quantification of the iap gene of *Listeria monocytogenes* and *Listeria innocua* by a new real-time quantitative PCR assay, *Res. Microbiol.* 152 (1) (2001) 37–46.
- Hughes, D.T., dan V. Sperandio. 2008. Inter-kingdom signalling: communication between bacteria and their hosts. *Nat Rev Microbiol* 2008;6:111–20.
- Hui YH, 2001. *Foodborne Disease Handbook: Plant Toxicants*. CRC.
- International Commission for Microbiological (ICMSF) *Specifications for Food*. 1996. Microorganism in Foods. *Listeria monocytogenes*. London. Blackie Academic and Professional. 5. pp 88 – 175.
- International Commission for Microbiological (ICMSF). *Specifications for Food*. 1998. Microorganism in Foods. *Microbial Ecology of Food Commodities*. London. Blackie Academic and Professional 6. pp 521 – 576.
- James D, Scott SM, Ali Z, dan O'hare WT, 2005. Chemical sensors for electronic nose systems. *Microchimica Acta* 149, 1-17.
- Jurs, P.C., G.A.Bakken, dan H.E.McClelland. 2000. Computational methods for the analysis of chemical sensor array data from volatile analytes. *Chem Rev* 100:2649–2678.

- Kai, M., dan B.Piechulla. 2010. Impact of volatiles of the rhizobacteria *Serratia odorifera* on the moss *Physcomitrella patens*. *Plant Signal Behav* 2010;5:444–6.
- Kai, M., M. Haustein, dan F.Molina.2009. Bacterial volatiles and their action potential. *Appl Microbiol Biot* 2009;81:1001–12.
- Karpiskova, R., 1998. Study of the occurrence of listeriae in foodstuffs in 1998 (in Czech). *The Buletin of Centre for the Hygiene of Food Chains in Brno*:7, 8-9.
- Kim, S.H., M.K. Park, J.Y. Kim, P.D. Chuong, Y.S. Lee, B.S. Yoon, K.K. Hwang, dan Y.K. Lim, Original articles: development of a sandwich ELISA for the detection of *Listeria* spp using specific flagella antibodies, *J. Vet. Sci.* 6 (1) (2005) 41–46.
- Kim JL, L.Elfman, Y. Mi, G.Wieslander, G.Smedje, dan Norbäck D, 2007. Indoor molds, bacteria, microbial volatile organic compounds and plasticizers in schools—associations with asthma and respiratory symptoms in pupils. *Indoor Air* 17, 153-63.
- Keshri, G., N. Magan, dan P. Voysey. 1998. Use of an electronic nose for the early detection and differentiation between spoilage fungi. *Lett Appl Microbiol* 27, 261-4.
- Kim, H.J., dan J.C. Cho, 2008. Rapid and sensitive detection of *Listeria monocytogenes* using a PCR-enzyme linked immunosorbent assay, *J. Microbiol. Biotechnol.* 18 (11) (2008) 1858–1861.
- Kim, H., dan J.Cho 2010. Simple and rapid detection of *Listeria onocytognes* in fruit juice by real-time PCR without enrichment culture. *Food Control* 21: 1419 –1423.
- Kim J.L., L. Elfman, Y. Mi, G.Wieslander G, Smedje G, dan Norbäck D, 2007. Indoor molds, bacteria, microbial volatile organic compounds and plasticizers in schools—associations with asthma and respiratory symptoms in pupils. *Indoor Air* 17, 153-63.
- Lee JE, W.K.Cho, C.H.Nam, M.H.Jung, J.H.Kang, dan B.K.Suh. 2010. A case of meningoencephalitis caused by *Listeria monocytogenes* in a healthy child. *Korean J Pediatr.* 53(5):653-656.
- Lemfack, MC., J.Nickel, dan M.Dunkel M.2014. MVOC: a database of microbial volatiles. *Nucleic Acids Res* 2014;42:D744–8.
- Leonard, P., 2003. Advances in biosensors for detection of pathogens in food and water, *Enzyme and Microbial Technology* 32 (January (1)) (2003) 3–13.



- Li, Changying, P. Heinemann, dan R. Sherry, 2007. Neural Network and Bayesian Network Fusion Models to Fuse Electronic Nose and Surface Acoustic Wave Sensor Data For Apple Detected Detection. *Sensors and Actuators B* 125 (2007) 301–310.
- Li, X., Lv, P., Wang, L., Guo, A., Ma, M., dan Qi, X. (2014). Application of high resolution pyrolysis gas chromatography / mass spectrometry ( HRPGC / MS ) for detecting *Listeria monocytogenes*. *Journal of Chromatography B*, 971, 107–111. <https://doi.org/10.1016/j.jchromb.2014.06.032>
- Lintang, C.A., Widodo, T.W., dan Lelono, D., 2016. Rancang bangun electronic nose untuk mendeteksi tingkat kebusukan ikan air tawar, Indonesian *Journal of Electronics and Instrumentation Systems*, Volume 6, No.2. 129-140.
- Liu, D. 2008. Preparation of *Listeria monocytogenes* specimens for molecular detection and identification. *Int. J. Food Microbiol.* 122: 229 – 242.
- Liu D. 2006. Identification, subtyping, and virulence determination of *Listeria monocytogenes*, an important foodborne pathogen. *J Med Microbiol* 55: 645–659
- Low, C., K.Linklater. 1985. *Listeriosis in sheep*. In Practice 66–67.
- Low, J.C. dan Donachie, W. (1997). A review of *Listeria monocytogenes* and listeriosis. *Veterinary Journal*, 153, 9-29.
- Low, J.C., F.Wright, J.McLauchlin, dan W.Donachie.1993. Scrutyping and distribution of *Listeria* isolates from cases of ovine listeriosis. *Veterinary Record*, 133, 165-1 66.
- Jay, J.M. 1996. *Foodborne Listeriosis*, 478-499. In: Jay J.M. (ed): *Modern Food Microbiology*. Chapman & Hall, New York:661.
- Jay, M.J. 2000. *Modern Food Microbiology*. 6<sup>th</sup>Ed. Aspen publication.
- Jackson JE. 1991. *A user's guide to principal components*. New York: John Wiley & sons; 1991.
- Jolliffe IT. 2002. *Principal component analysis*. 2nd ed. New York: Springer-Verlag New York, Inc.2002.
- Joo, K.M., J.K.Lee, dan J.W.Kang, 2017. Combining Random Forest with multi block local binary pattern feature selection for multiclass head pose estimation. <http://doi.org/10.1371/journal.pone.0180792> July 17, 2017. Diakses 25 November 2018.
- Magan, N., Pavlou, A., dan Chrysanthakis, I. (2001). Milk-sense: A volatile sensing system recognizes spoilage bacteria and yeasts in milk. *Sensors and Actuators, B: Chemical*, 72(1), 28–34. [https://doi.org/10.1016/S0925-4005\(00\)00621-3](https://doi.org/10.1016/S0925-4005(00)00621-3)

- Manly, Brian F.J. 2016. Multivariate statistical methods: a primer. *Journal for Statistic Software*. June 2017, vol.17, book review 3.
- Markey, Bryan, F. Leonard, dan M. Archambault ,2012. *An Cullinare, Does Maquire*, 2013. *Clinical Veterinary Microbiology* 2<sup>ed</sup> Mosby : Elsevier.
- Mathakiya, R. A., Roy, A., dan Nayak, J. B. (2011). *Characterization of Listeria monocytogenes isolates by CAMP test*. 4(7), 301–303. <https://doi.org/10.5455/vetworld.4.301>.
- Mcclure PJ, 2002. *Foodborne pathogens: hazards, risk analysis, and control*. Woodhead Pub Ltd.
- Montuschi P., 2010. Diagnostic performance of an electronic nose, fractional exhaled nitric oxide, and lung function testing in asthma, *Chest* 137 (4) (2010) 790.
- Moosmann, F, B. Triggs, dan F. Jurie,2007.*Fast discriminative visual codebooks using randomized clustering forest in NIPS 19*. Cambridge, MA: MIT Press, 2007, pp. 985–992.
- Murray, E.G.D., R.A.Webb, dan MBR. Swann.1926. A disease of rabbits characterised by a large mononuclear leucocytosis caused by a hitherto undscribed bacillus *Bacterium monocytogenes*. *Journal of Pathology and Bacteriology*, 29,407439.
- Murray, P.R., E.J.Baron, J.H.Jorgensen. 2007. *Manual of Clinical Microbiology*, 9th ed. American Society for Microbiology, ASM Press, Washington, DC.
- Nightingale, K. 2010 *Listeria monocytogenes*: knowledge gained through DNAsequence-based subtyping, implications, and future considerations. *Journal of AOAC International*, 93(4), 1275e1286.
- Nogva,H.K., K. Rudi, K. Naterstad, A. Holck, dan D. Lillehaug, Application of 5\_-nuclease PCR for quantitative detection of *Listeria monocytogenes* in pure cultures, water, skim milk, and unpasteurized whole milk, *Appl. Environ.Microbiol.* 66 (10) (2000) 4266–4271.
- O.F., D’Urso, P. Poltronieri, S. Marsigliante, C. Storelli, M. Hernández,dan D. Rodríguez-Lázaro. 2009. A fitration-based real-time PCR method for the quantitative detection of viable *Salmonella enterica* and *Listeria monocytogenes* in food samples, *Food Microbiol.* 26 (3) (2009) 311–316.
- O’Grady,J.,M. Rutledge, S. Sedano-Balbás, T.J. Smith, T. Barry, dan M. Maher,2009. Rapid detection of *Listeria monocytogenes* in food using culture enrichment combined with real-time PCR, *Food Microbiol.* 26 (2009) 4–7.

- Pasanen, Anna Lisa, S.Lappalainen, dan P. Pasanen P, 1996. Volatile organic metabolites associated with some toxic fungi and their mycotoxins. *Analyst* 121, 1949-53.
- Pavlou A, Turner A, dan Magan N, 2002a. Recognition of anaerobic bacterial isolates in vitrousing electronic nose technology. *Lett Appl Microbiol* 35, 366
- Pavlou A., Magan N, dan McNulty C, *et al.*, 2002b. Use of an electronic nose system for diagnoses of urinary tract infections. *Biosensors and Bioelectronics* 17, 893-9.
- Pearce, T.C., S.S.Schiffman,H.T.Nagle, dan J.W.Gardner., *Handbook of Machine Olfaction: Electronic Nose Technology*, WILEY-VCH, Weinheim.
- Peel, M.,Donachie, W dan Shaw, A. 1988. Temperatur-dependent expression of flagella of *Listeria monocytogenes* studied by electron microscopy, SDS-PAGE and westen blotting. *J.Gen Microbiol.* 134:2171-2178.
- Penuelas,J., D.Asensio, dan D.Tholl D. 2014. Biogenic volatile emissions from the soil. *Plant Cell Environ* 2014;37:1866–91.
- Peraturan Kepala Badan Pengawas Obat dan Makanan No. HK.00.06.52.4011 tentang penetapan batas maksimum cemaran mikroba dan kimia dalam makanan.
- Pine L, GB. Malcolm, J.B.Brooks, dan M.I. Daneshvar. 1989. Physiological studies on the growth and utilization of sugars by *Listeria* species. *Can J Microbiol* 35: 245–254.
- Phillips, J.D., dan M.W.Griffiths. 1986: Factors contributing to the seasonal variation of *Bacillus spp.* In pasteurized dairy products. *J Appl Bacteriol* 61: 275-285.
- Picoux, J.Burgere, 2008. Ovine Listeriosis. *Small Ruminant Research* 76. (2008) 12–20.
- Prasetyo, Eko. 2012. *Data Mining : Konsep dan Aplikasi Matlab*. Andi Offset: Yogyakarta.
- Prescott, L.M., Harley, J.P., dan klein, D.A.,2002.*Microbiology* 5<sup>th</sup> edition. The Mc-Graw-Hill Companies : 127.
- Radostits, O.M., Gay, C.C., Hinchcliff, K.W., Constable, P.D., 2007. *Veterinary Medicine. A Textbook of the Disease of Cattle, Horses, A combinaison Sheep, Pigs and Goats*, 10th ed. Saunders, Philadelphia.

- Republik Indonesia. 1992. Undang-Undang Nomor 16 Tahun 1992 tentang Karantina Hewan, Ikan dan Tumbuhan.
- Republik Indonesia. 1996. Undang-Undang Nomor 7 Tahun 1996 tentang Pangan.
- Robert, A.J., Williams S.W., Wiedmann, M dan Nightingale, K.K. 2009. *Listeria monocytogenes* outbreak strains demonstrate differences in invasion phenotypes, inIA transcript levels and motility. *Appl. Environ. Microbiol.* 75 (17):5647-5658.
- Roche, S., Kerouanton, A., Minet, dan J., Le Monnier. 2009. Prevalence of 313 low-virulence *Listeria monocytogenes* strains from different foods and environments. *Int J Food Microbiol* 130, 151-155.
- Rock F, Barsan N, dan Weimar U, 2008. Electronic nose: current status and future trends. *Chem Rev* 108:705–725.
- Rocourt., J. dan J. Bille, 1997. Foodborne listeriosis. *World Health Statistics Q.*, 50: 67-73.
- Romain AC, Nicolas J, Wiertz V, Maternova J., dan Andre P, 2000. Use of a simple tin oxide sensor array to identify five malodours collected in the field. *Sensors and Actuators B: Chemical* 62, 73-9.
- Rosyad, F., dan D. Lelono, 2015. Klasifikasi Kemurnian Daging Sapi Berbasis Electronic nose dengan metode Principal Component Analysis, *IJEIS Vol.6 No.1, April 2016 pp.47-58*.
- Sauer, S., dan M. Kliem, *Mass spectrometry tools for the classification and identification of bacteria*, *Nature Reviews Microbiology*. 2010 Jan (1):74-82.
- Scallan, E., R.M. Hoekstra, F.J. Angulo, R.V. Tauxe, M.A. Widdowson, S.L. Roy, J.L. Jones, dan P.M. Griffin, 2011. Foodborne illness acquired in the United States—major pathogens, *Emerg. Infect. Dis.* 17 (1) (2011) 7–15.
- Schnürer, J., J.Olsson, dan T.Börjesson. 1999. Fungal volatiles as indicators of food and feeds spoilage. *Fungal Genetics and Biology* 27, 209-17.
- Schulz, S., dan J.S.Dickschat. 2007. Bacterial volatiles: the smell of small organisms. *Nat Prod Rep* 2007;24:814–42.
- Schmidt, R.H., R.M. Goodrich, D.L. Archer dan K.R. Schneider. 2003. *General Overview of the Causative Agents of Foodborne Illness. Institute of Food and Agriculture Sciences. University of Florida, USA*.
- Schroeder H., dan Van Rensburg I.B.J. 1993. Generalised *Listeria monocytogenes* infection in a dog. *Journal of the South African Veterinary Association* 64, 133-136.

- Shallcross, J.A. 1994. *Listeria innocua* isolated from a case of ovine meningoencephalitis. *Veterinary Microbiology*, 42, 245-253.
- Shim,W.B., J.G. Choi, J.Y. Kim, Z.Y. Yang, K.H. Lee, M.G. Kim, S.D. Ha, K.S. Kim, K.Y. Kim, C.H. Kim, S.A. Eremin, dan D.H. Chung. 2008. Enhanced rapidity for qualitative detection of *Listeria monocytogenes* using an enzyme-linked immunosorbent assay and immunochromatography strip test combined with immunomagnetic bead separation, *J. Food Prot.* 71 (4) (2008) 781–789.
- Siripatrawan, U. (2008). Rapid differentiation between *E. coli* and *Salmonella* Typhimurium using metal oxide sensors integrated with pattern recognition. *Sensors and Actuators, B: Chemical*, 133(2), 414–419. <https://doi.org/10.1016/j.snb.2008.02.046>.
- Surat Keputusan Menteri Pertanian Nomor 3238/Kpts/PD.630/9/2009 tertanggal 9 September 2009 tentang penggolongan jenis-jenis Hama Penyakit Hewan Karantina (HPHK) dan Penggolongan dan Klasifikasi Media Pembawa.
- Surette, MG, dan J. Davies. 2008. A new look at secondary metabolites. *Chemical Communication Among Bacteria*. Washington, DC: ASM Press, 2008, 307–22.
- Talaro, Kathlen Park, dan B. Chess. 2015. *Foundations in Microbiology : Basic Principles 9<sup>th</sup> ed.* Mc Grow Hill.
- Tait,E., J.D. Perry, S.P.Stanforth, dan J.R. Dean. 2014. Bacteria detection based on evolution of enzyme-generated volatile organic compound : Determination of *Listeria monocytogenes* in milk sample. *Analytica Chimica Acta*. 848 (2014) 80-87.
- Tazi, Imam, K. Triyana, D. Siswanta, A. C. A. Veloso, A. M. Peres, dan L.G. Dias. 2018. Dairy products discrimination according to the milk type using an electrochemical multisensor device coupled with chemometric. *Journal of Food Measurement and Characterization*. <https://doi.org/10.1007/s11694-018-9855-8>
- Thahir, R., J. Munarso, dan S. Usmiati. 2005. Review hasil-hasil penelitian keamanan pangan produk peternakan.Pros. Keamanan Pangan Produk Peternakan. Bogor, 14 September 2005. Puslitbang Peternakan, Bogor hlm. 18 – 26
- Tjahjadi, C dan Martha. 2011. *Pengantar Teknologi Pangan*. Bandung: Universitas Padjajaran.
- Triyana, Kuwat, M. T. Subekti, P. Aji , S.N. Hidayat, dan A. Rohman, 2015. Development of Electronic Nose with Low-Cost Dynamic Headspace for

Classifying Vegetable Oils and Animal Fats. *Trans Tech Publications, Switzerland* doi:10.4028/www.scientific.net/AMM.771.50.

- Triyana, K., A. Masthori, B.P. Supardi, dan Muhammad Iqbal Aji Bharata, 2007. Prototype of Electronic Nose Based on Gas Sensors Array and Back Propagation Neural Network for Tea Classification. *Berkala MIPA* 17(3), September 2007.
- Turner, A.P., dan Magan, N. 2004. Electronic noses and disease diagnostics. *Nature Reviews Microbiology* 2, 161-166.
- Vapnik, V. 1998. *Statistical Learning Theory*. Wiley: New York, NY, USA, p. 733. 61.
- Yong, Xin Yu, Y. dan Zhao.2012. Electronic Nose Integrated with Chemometrics for Rapid Identification of Foodborne Pathogen, *Chemometrics in Practical Applications*, Dr. Kurt Varmuza (Ed.), ISBN: 978-953-51- 0438-4, InTech, Available from: <http://www.intechopen.com/books/chemometrics-in-practicalapplications/electronic-nose-integrated-with-chemometrics-for-rapid-identification-of-foodborne-pathogen>. Diakses pada 28 Maret 2018.
- Yu, Yong Xin, 2010. *Electronic Nose Integrated with Chemometrics for Rapid Identification of Foodborne Pathogen*. [www.intechopen.com](http://www.intechopen.com) pp.201-204. Diakses 14 Juni 2018.
- Yu Y. X., Liu Y., Sun X. H., Pan Y. J., dan Zhao Y., 2010a. *Recognition of Three Pathogens Using Electronic Nose Technology*. *Chinese Journal of Sensors and Actuators* 23
- Yu Y. X., X.H.Sun, Y.J.Pan, dan Y.Zhao.2010b. Research on Food-borne Pathogen Detection Based on Electronic Nose. *Chemistry online (in Chinese)*, 154-9. Diakses 14 Juni 2018.
- Yu, Y.X., dan Y. Zha.2012. *Electronic Nose Integrated with Chemometrics for Rapid Identification of Foodborne Pathogen Chemometrics in Practical Applications InTech Europe*. University Campus STeP Ri. [www.intechopen.com](http://www.intechopen.com). Diakses pada Agustus 2018.
- Yu, Y., Sun, X., Liu, Y., Pan, Y., dan Zhao, Y. 2015. Odor Fingerprinting of *Listeria monocytogenes* Recognized by SPME-GC / MS and E-nose. *Canadian Journal of Microbiology*, 2, 1–22.
- Yu Yong-xin, Xiao-hong Sun, Yuan Liu, dan Yong-jie Pan, Y. Z. 2015. Odor Fingerprinting of *Listeria monocytogenes* Recognized by SPME-GC / MS and E-nose Odor fingerprinting of *Listeria monocytogenes* recognized by



SPME – GC – MS and E-nose. *Canadian Journal of Microbiology*, 61(November), 1–6. <https://doi.org/10.1139/cjm-2014-0652>

Walker, J.K., J.H.Morgan, J.McLauchlin, K.A.Grant dan F.J.Allerberger, M.P.Dierich. 1992. Listeriosis and cephalosporins. *Clinical Infectious Diseases* 15, 177–178.

Wang, Y., Wang, Y., Ma, A., Li, D., Luo, L., Liu, D., & Hu, S. (2015). *The Novel Multiple Inner Primers-Loop-Mediated Isothermal Amplification ( MIP-LAMP ) for Rapid Detection and Differentiation of Listeria monocytogenes*. 21515–21531.

Wasteson, Y, dan Hornes, E. 2009. *Pathogenic Escherichia Coli Found in Food*. International Journal Of Food Microbiology, 12, 103-114

Wenke, K., T.Weise, dan R.Warneke. 2012. Bacterial volatiles mediating information between bacteria and plants. *Biocommunication of Plants*, Vol. 14, Springer Berlin: Heidelberg, 2012, 327–47.

Wijnads, L.M., J.B.Duffrene, F.M.Rombouts, P.H.Held, dan F.M.van Leusde. 2006.Prevalence of Potentially Pathogenic *Bacillus cereus* in Food Commodities in the Netherlands. *J Food Prot* 69-75.

Wilkins K, K.Larsen, dan M.Simkus.2003. Volatile metabolites from indoor molds grown on media containing wood constituents. *Environmental Science and Pollution Research* 10, 206-8.

World Health Organization, *Food Safety and Foodborne Illness*. Available from: <http://www.who.int/mediacentre/factsheets/fs237/en/>Diakses 16.09.2018,

Wold S, Sjostrom dan M, Eriksson L. 2001. PLS-regression: a basic tool of chemometrics. *Chemometr Intell Lab* 58:109–130.

Wolpert DH, Macready WG (1997) No free lunch theorems for optimization. *IEEE Trans Evol Comput* 1:67–82

Zhang Q, Wang P, Li J, dan Gao X, 2000. Diagnosis of diabetes by image detection of breath using gas-sensitive laps. *Biosensors and Bioelectronics* 15, 24-56.