

DAFTAR PUSTAKA

- Ainuri, M. 1992. Optimasi Teknik Industri Tepung Singkong di Kabupaten Gunung Kidul Yogyakarta, Proyek Penelitian OPF/FTP/UGM/91-92. Fakultas Teknologi Pertanian UGM.
- Alakomi, H.L., Skytta, E and Saarela, M. 2000. Lactic acid permeabilizes gramnegative bacteria by disrupting the outer membrane. *Applied and Environmental Microbiology* 66(5): 2001-2005.
- Alamy. 2017. Picture of Green Cassava Tree in the Cultivated Field (*Manihot esculenta*) also called Yuca, Mandoca, Manioc, Tapioca, Brazilian arrowroot, woody shrub – image ID: PT30PN. Date taken: 28 July 2017.
- Alves, AAC and Setter TL. 2000. Response of Cassava to water deficit: leaf area growth and abscisic acid. *Crop Sci*; 40:131-7.
- Alves, AAC. 2002. Cassava Botany and Physiology. CAB International. Cassava: Biology, Production and Utilization. Brazil.
- Anagnostopoulos, D. A., Bozoudi, D and Tsaltas, D. 2018. Enterococci Isolated from Cypriot Green Table Olives as a New Source of Technological and Probiotic Properties. *Fermentation Journal*/MDPI.
- Ashelford, E., Chuzhanova, J. C., Fry, A. J., Jones and Weightman, A, J. 2005. *At least 1 in 20 16S rRNA sequence records currently held in public repositories is estimated to contain substantial anomalies.* *Appl. Environ. Microbiol.* 71:7724-7736.
- Astriani, A., Diniyah, N., Jayus, J and Nurhayati, N. 2018. Phenotypic identification of indigenous fungi and lactic acid bacteria isolated from 'gatot' an Indonesian fermented food. *Biodiversitas*. 19(3):1-8
- Axelsson, L. 2004. Lactic Acid Bacteria: Classification and Physiology. In Salminen, S., Wright, A.V., Ouwehand, A., editors. *Lactic Acid Bacteria; Microbiological and Functional Aspects*, 3rd edition, revised and expanded. Marcel Dekker Inc. New York.
- Barrick Lab. 2019. Standard Polymerase Chain Reaction (PCR). <https://barricklab.org/twiki/bin/view/Lab/ProtocolsStandardPCR>. Diakses pada tanggal 25 November 2019.
- Biotech, Orbit. 2006. Estimation of Reducing Sugars by DNSA Method. <https://orbitbiotech.com/estimation-of-reducing-sugars-by-dnsa-method/>. Diakses pada tanggal 28 November 2019.
- Buckle, K.A., Edwards, G.H., Fleet and Wooton, H. 1985. Ilmu Pangan (Terjemahan). Jakarta: Universitas Indonesia. Halaman 97-98.

- Buitrago, J.A., Ospina, B., Gil, J.L and Aparicio, H. 2002. Cassava root and Leaf Meals as the main ingredients in poultry feedings: some experiences in Columbia. Pp. 523-541.
- Burnham, K.P and Anderson, D.R. 2002. Model Selection and Multimodel Inference-Chapter 7.
- Behera, S.S and Ray, R.C. 2016. Microbial Linamarase in Cassava Fermentation. *Microbial Enzyme Technology in Food Applications*. ISBN 978-1-4987-4983-1. Orissa. India
- Boudewijns, M., Bakkers, J. M., Sturm, P. D. J and Melchers, W. J. G. 2006. 16S rRNA gene sequencing and the routine clinical microbiology laboratory: *a perfect marriage*. *Microbiol.* 44:3469-3470.
- BPS (Badan Pusat Statistik). 2016. Produksi Ubi Kayu Menurut Provinsi (ton), 1993-2015. www.bps.go.id/linkTableDinamis/view/id/8. Diakses pada tanggal 20 Februari 2019.
- Bradford, M.M., 1976, A Rapid and Sensitive Method for The Quantitation of Microgram Quantities of Protein Utilizing the Principle of Protein-Dye Binding, *Anal.Biochem.*, 72:248-254.
- Cecep, Hidayat. 2009. Peluang Penggunaan Kulit Singkong Sebagai Pakan Unggas. *Balai Penelitian Ternak*. Bogor.
- Cooke, R.D., Howland, A.K and Hahn, S.K. 1978. Screening cassava for low cyanide using an enzymatic assay. *Exp Agric* 14:367-72.
- Dighe, A. S., Jangid, K., Gonzales, J. M., Pidiyar, V. J., Patole, M., Ranade, D and Shouche, Y. 2004. Comparison of 16S rRNA gene sequences of genus *Methanobrevibacter*. *US National Library of Medicine National Institutes of Health*. 4(1):20.
- Day, C.N and Morawicki, R.O. 2018. Effects of Fermentation by Yeast and Amylolytic Lactic Acid Bacteria on Grain Sorghum Protein Content and Digestibility. *Journal of Food Quality*. ID 3964392.
- Desmazeaud, M. 1996. Lactic Acid Bacteria in Food: Use and Safety. *Cahiers Agricultures*. 5 (5), 331-342.
- Department of Food Science. 2019. Lactic Acid Bacteria – Homofermentative and Heterofermentative. *Dairy Foods Science Notes*. Cornell University.
- Dwivedi, B and Gadagkar, S. R. 2009. Phylogenetic inference under varying proportions of indel-induced alignment gaps. *BMC Evolutionary Biology*. 9:211.
- Egan, S.V., Yeoh, H.H and Bradbury, J.H. 1998. Simple picrate paper kit for determination of the cyanogenic potential of cassava four. *Journal Science Food Agriculture*. 76: 39-48.

- Egena, S.S.A. 2006. Effect of Different Hydrocyanic Acid Consumption on Nutrient Digestibility in Broilers Fed Cassava Flour Meal. *Proceedings of 11th Annual Conference of Animal Science of Nigeria (ASAN)*. Nigeria, pp. 153-155
- Ejiofor, M.A.N and Okafor, N. 1981. Comparison of Pressed and Unpressed Cassava Pulp for Gari Making. *International Information System for The Agricultural Science and Technology*. <http://agris.fao.org/agris-search/search.do?recordID=XF8390039>. Diakses pada tanggal 5/10/2019.
- El-Sharkawy, M. 2003. Cassava biology and physiology. *Plant Mol Biol*; 53:621-41.
- Ellen, R.F., Soselisa, H.L and Wulandari, A.P. 2012. The biocultural history of Manihot esculenta in eastern Indonesia: Assessing evidence for the movement and selection of cassava germplasm. Submitted.
- Encyclopaedia Britannica. 2018. Cassava Plant. (www.britannica.com/plant/cassava). Diakses tanggal 11 Desember 2018.
- Encyclopaedia Britannica. 2019. Glucose. (www.britannica.com/science/glucose). Diakses tanggal 28 November 2019.
- EzBioCloud. 2019. 16S rRNA and 16S rRNA Gene. <https://help.ezbiocloud.net/16s-rna-and-16s-rna-gene/>. Diakses pada tanggal 21/10/2019.
- FAO (Food and Agriculture Organization of the United Nations). 2013. Code of Practice for The Reduction of Hydrocyanic Acid (Hcn) In Cassava and Cassava Products. CAC/RCP 73. Recommended International Code of Practice For.
- FAO (Food and Agriculture Organization of the United Nations). 2014. Food Outlook. *Biannual report on global food markets*.
- FSANZ. 2008a. Proposal P1002 Hydrocyanic acid (hydrogen cyanide) in ready-to-eat cassava chips: *Assessment report*. Food Standards Australia New Zealand.
- Garcia, M and Dale, N. 1999. Cassava root meal for poultry. *J Appl Poult. Sci.* 8:132-7.
- Garriga, M., Almaraz, M and Marchiaro, A. 2017. Determination of reducing sugars in extracts of Undaria pinnatifida (harvey) algae by UV-visible spectrophotometry (DNS method). Comodoro Rivadavia – Argentina.
- Giraud, E., Gosselin, L and Raimbault, M. 1992. Degradation of Cassava Linamarin by Lactic Acid Bacteria. *Biotechnology Letters*. 14:593-598
- Guyot, J.P and Morlon-Guyot J. 2000. Effect of different cultivation conditions on Lactobacillus manihotivorans OND32T, an amylolytic Lactobacillus isolatd from sour starch cassava fermentation. *International Journal of Food Microbiology*. 67: 217-22.

- Haurowitz, F and Koshland, D.E. 2019. Protein Biochemistry. *Encyclopaedia Britannica*. britannica.com/science/protein. Diakses pada tanggal 29 November 2019.
- Hawashi, M., Widjaja, T and Gunawan, S. 2019. Solid-State Fermentation of Cassava Products for Degradation of Anti-Nutritional Value and Enrichment of Nutritional Value. *New Advances on Fermentation Processes*. IntechOpen.
- Hidayati, D. 2010. Growth Pattern of Lactic Acid Bacteria During Soy Milk Fermentation. *Jurnal Teknologi Hasil Pertanian*. 3(2):1-8.
- Jay, J. M. 1998. *Modern Food Microbiology*. Aspen Publishers, Inc. Gaithersburg, Maryland.
- Katz, S. H and Weaver, W. W. 2003. *Encyclopedia of Food and Culture*. New York: Schribner. ISBN 0684805685
- Khajarern, S. 2007. Use of cassava products in poultry feeding: roots, tubers, plantains and bananas in animal feeding. <http://www.fao.org/DOCREP/003/T0554E/T0554E10.htm>. Diakses pada tanggal 5 Maret 2019.
- Kusmiati and Malik, A. 2002. Aktivitas bakteriosin dari bakteri *Leuconostoc mesentroides* Pbac1 pada berbagai media. *Bulletin Kesehatan*. 6(1):1-7.
- Li, W.H and Graur, D. 1991. *Fundamentals of Molecular Biology*. Sinauer Associates. Massachusetts.
- Li, S., Pearl, D.K and Doss, H. 1999. Phylogenetic Tree Construction Using Markov Chain Monte Carlo. *Journal of the American Statistical Association*.
- Lindquist, J. 1998. General Overview of The Lactic Acid Bacteria. Departement of Bacteriology, University of Wisconsin. Madison. *Food Science* (324), 102.
- Liu, T., Luo, H., Cai, Y., Peng, Z and Yang, S. 2014. Chemical Composition and In Vitro Evaluation of The Cytotoxic and Antioxidant Activities of Supercritical Carbon Dioxide Extracts of Pitaya (Dragon Fruit) Peel, *Chemistry Central journal*, 8 (1):1-7.
- Loebis, E. H and Meutia, Y. R. 2012. Pembuatan Starter Mocaf Terimobilisasi dari Isolat Bakteri Asam Laktat dan Aplikasinya pada Proses Produksi Mocaf. *Jurnal Hasil Penelitian Industri*. 25(1):35-47.
- Misgiyarta and Widowati, S. 2009. Efektifitas Bakteri Asam Laktat (BAL) dalam Pembuatan Produk Fermentasi Berbasis Protein/Susu Nabati, Balai Penelitian Bioteknologi dan Sumberdaya Genetik Pertanian, Bogor.
- Meyer, L. H. 1973. *Food Chemistry*. Reinhold Publishing Co Inc. New York.
- Montagnac, J.A., Davis, C.R and Tanumihardjo, S.A. 2009. Processing Techniques to Reduce Toxicity and Antinutrients of Cassava for Use as a Staple Food.

- Comprehensive Reviews in Food Science and Food Safety*. Institute of Food Technologists. 8(20):18-20.
- Mount, D.W. 2001. Phylogenetic prediction. In: Bioinformatic, Sequence and Genome Analysis. *Cold Spring Harbor laboratory*. New York Press pp. 237 – 280.
- Nurhikmayani, R. 2019. The Isolation and molecular identification of antimicrobial-producing Lactic Acid Bacteria from chao, South Sulawesi (Indonesia) fermented fish product. *Biodiversitas. Journal of Biological Diversity*. 20(4):1-5.
- Nettles, C. G and Barefoot, S. F. 1993. Biochemical and Genetic Characteristics of Bacteriocins of FoodAssociated Lactic Acid Bacteria. *Journal of Food Protection*. 56:338-346.
- Olugbemi, T.S., Mutayoba, S.K and Lekule, F.P. 2010. Effect of Moringa (*Moringa oleifera*) inclusion in cassava based diets fed to broiler chickens. *International Journal of Poultry Science*, 9(4):363-367.
- Olsen, K.M and Schaal, B.A. 1999. Evidence on the origin of cassava: phylogeography of *Manihot esculenta*. *Proc. Natl. Acad. Sci.U.S.A.*, 96(10): 5586-5591.
- Olympia, M., Fukuda, H., Ono, H., Kaneko, Y and Takano, M. 1995. Characterization of starch-hydrolyzing lactic acid bacteria isolated from a fermented fish and rice food, “Burong Isda,” and its amylolytic enzyme. *Journal Ferment Bioeng* 80:124–130.
- Ogbonnaya, N. 2016. Linamarase Production by Some Microbial Isolates and A Comparison of the Rate of Degradation of Cassava Cyanide by Microbial and Cassava Linamarases. *Hemijiska Industrija*. 21-21.
- Oyewole, O. B. 1992. Cassava Processing in Africa. Applications of Biotechnology to Fermented Foods: Report of an Ad Hoc Panel of the Board on Science and Technology for International Development. NCBI.
- Prabawati, S. 2011. Manfaat Singkong. *Balai Besar Penelitian dan Pengembangan Pascapanen Pertanian Bogor*.
- Promega. 2018. DNA Purification. The basics of DNA Isolation, Plasmid Growth and DNA Quantitation. worldwide.promega.com. Diakses pada tanggal 10/11/2019.
- Purwandari, U. 2000. Chapter V. Fungal Distribution in Gathotan Samples. (Thesis). Royal Melbourne Institute of Technology University, Australia.
- Petrova, P., Petrov, K and Stoyancheva, G. 2013. Starch-modifying enzymes of lactic acid bacteria - structures, properties, and applications. *Starch/Starke* 65: 34–47.

- Rahayu, W. P., Maamoen, S., Suliantari and S, Fardiaz. 1992. Teknologi Fermentasi Produk Perikanan. Penerbit Pusat Antar Universitas Pangan dan Gizi. Institut Pertanian Bogor. Bogor.
- Rival, L. and D. McKey. 2008. Domestication and diversity in manioc (*Manihot esculenta* Crantz ssp. *esculenta*, Euphorbiaceae). *Current Anthropology* 49(6):1119-1128.
- Sanger, F., Nicklen, S and Coulson, A.R. 1977. DNA sequencing with chain terminating inhibitors. *Proc. Natl. Acad. Sci.* 74:5463-5467.
- Sanni, A.I., Onilude, A.A., Ogunbanwo, S.T., Fadahunsi, S and Afolabi, O.R. 2002. Production of exopolysaccharides by lactic acid bacteria isolated from traditional fermented foods in Nigeria. *European Food Research and Technology*. 214(5): 405-407.
- Sambrook, J and Russel, D.W. 1989. Molecular Cloning: A Laboratory Manual. New York: Cold-Spring Harbor Laboratory Pr.
- Subramanian, M. R., Talluri, S and Christopher, L. P. 2015 Production of Lactic Acid Using A New Homofermentative *Enterococcus faecalis* isolate. *Microb Biotechnol.* 8(2): 221-229.
- Sneath, P. H., Mair, M. E and Sharpe, J. G. 1984. Bergey's Manual of Systematic Bacteriology. Vol.2. *Williams and Wilkins*. Baltimore.
- Soetanto, E. 2001. Membuat Patilo dan Kerupuk Ketela. *Penerbit Kanisius*. Yogyakarta.
- Sosrosoedirdjo, R. S and Samad, B. 1983. Bercocok Tanam Ubi Kayu. *Jasaguna*. Jakarta.
- Stupak, M., Vanderschuren, H., Gruissem, W and Zhang, P. 2006. Biotechnology Approaches to Cassava Protein Improvement. *Trends in Food Science & Technology*. 17(12): 634-641.
- Subagio, A. 2008. Proses Produksi Mocal. <http://tepungmocal.ning.com>. Diakses pada 3 Oktober 2018.
- Survey. 2018. Proses Pembuatan *Ubi Karet Busuk*. Sumba, Nusa Tenggara Timur.
- Szabo, EA., Janson, E., Miles, D., Hambrige, T., Stanley, G., Baines, J and Brent, P. 2010. Responding to Incidents of LowLevel Chemical Contamination in Food. 1The New South Wales Food Authority, Silverwater NSW, Australia 2Food Standards Australia New Zealand, Canberra BC ACT, Australia. Ensuring Global Food Safety: *Exploring Global Harmonization*. Elsevier Inc.
- Swofford, D.L., Olsen, G.J., Waddell, P.J and Hills, D.M. 1996. Phylogenetic inference. In: Molecular Systematics, 2nd Edition. HILLS, D.M., C. MORITZ and B.K. MABLE (Eds.) Sinauer Associates, Sunderland, Massachusetts. Chap. 5 pp. 407 – 514.

- Tandrianto, J., Mintoko, D, K and Gunawan, S. 2014. Pengaruh Fermentasi pada Pembuatan Mocaf (Modified Cassava Flour) dengan Menggunakan *Lactobacillus plantarum* terhadap Kandungan Protein. *Jurnal Teknik Pomits*. 3(2):143-144.
- Tamura, K., Peterson, D., Peterson, N., Stecher, G., Nei, M and Kumar, S. 2011. Mega 5: molecular evolutionary genetics analysis using maximum likelihood, evolutionary distance, and maximum parsimony methods. *Molecular Biology and Evolution*. 28(10):2731–39. doi:10.1093/molbev/msr121.
- Tindal, B. J., Rossela-Mora, R., Bussea, H. J., Ludwig, W and Kampfer, P. 2010. Notes on the Characterization of Prokaryote Strains for Taxonomic Purposes. *International Journal of Systematic and Evolutionary Microbiology*. 60: 249-266.
- USDA (United States Department of Agriculture). 2018. National Nutrient Database for Standard Reference Legacy Release of Cassava Raw. <https://ndb.nal.usda.gov/ndb/foods/show/301800?manu=&fgcd=&ds=SR&q=Cassava,%20raw>. Diakses pada tanggal 23 Maret 2019.
- USDA (United States Department of Agriculture). 2019. Classification for Kingdom Plantae Down to Species *Manihot esculenta* Crantz. *Natural Resources Conservation Service*. Plant Database.
- Uyoh, E. A., Ntui, V. O and Udoma, N. N. 2009. Effect of Local Cassava Fermentation Methods on Some Physiochemical and Sensory Properties of FUFU. *Pakistan Journal of Nutrition*. 8 (8):1123-1125.
- Van Der Eng, P. 1998. Cassava in Indonesia: A Historical Re-Appraisal of an Enigmatic Food Crop. *Southeast Asian Studies*. 36(1):1-3.
- Veltkamp, H.J and de Bruijn, G.H. 1996. *Manihot esculenta* Crantz. Pp. 107-113 in Plant Resources of South-east Asia No. 9. Plants yielding non-seed carbohydrates. Edited by M. Flach & F. Rumawas. Backhuys, Leiden.
- Wahyuningsih, S. B. 1990. Pengaruh Lama Fermentasi dan Cara Pengeringan terhadap Mutu Gari yang Dihasilkan. Skripsi Fakultas Teknologi Pertanian IPB Bogor.
- Yahia, E.M., Lopez, A.C and Perez, L.A. 2019. Carbohydrates. Postharvest Physiology and Biochemistry of Fruits and Vegetables. ScienceDirect :(175-205)
- Yu, J., Wa, G., Manjun, Q., Zhihong, S., Weihong, W., Wenjun, L., Lei, P., Ting, S., Hongmei, W., Bai, Na and Heping, Z. 2012. Identification and characterization of lactic acid bacteria isolated from traditional pickles in Sichuan, China. *Journal of Gen Applied Microbial*. Key Laboratory of Dairy Biotechnology and Engineering, Education Ministry of P. R. China, Department of Food Science and Engineering, Inner Mongolia Agricultural University, Hohhot 010018, P. R. China.

- Yuliarti, N. 2007. *Awas Bahaya di Balik Lezatnya Makanan*. Penerbit Andi: Yogyakarta.
- Wiley, E. O and Lieberman, B. S. 2011. *Phylogenetics: theory and practice of phylogenetics systematics*. Hoboken, N.J: Wiley-Blackwell.
- Zhang, P., Zhang, P., Wu, J., Tao, D and Wu, R. 2019. Effects of *Leuconostoc mesenteroides* on physicochemical and microbial succession characterization of soybean paste, *Da-jiang*. Elsevier. ScienceDirect. Vol (115).