

- Adolfsson, O., Meydani, S. N., & Russell, R. M. 2004. *Yogurt and gut function*. The American journal of clinical nutrition, 80(2), 245-256.
- Aiba, Y., Suzuki, N., Kabir, A. M., Takagi, A., & Koga, Y. 1998. *Lactic acid-mediated suppression of Helicobacter pylori by the oral administration of Lactobacillus salivarius as a probiotic in a gnotobiotic murine model*. The American journal of gastroenterology, 93(11), 2097-2101.
- Akuzawa R & Surono IS. 2002. *Fermented milks asia*. In *encyclopedia of dairy science*, pp 1045-1049. Rogisnski H, Fuquay JW & Fox PF (eds). U,K : Elsevier Science Ltd
- AL-Ajeeli, F. S., Flayyih, M. T., & Alkhazrajy, L. A. 2013. *Anti Obesity and Lipid-Lowering Effect of Lactobacillus Spp. as Probiotic on the Obese Rat*. Iraqi Journal of Science, 54(3), 526-530.
- Alwi, I., Setiati, S., Setiyohadi, B., Simadibrata, M., & Sudoyo, A. W. 2009. *Buku Ajar Ilmu Penyakit Dalam Jilid 1*, edisi 5. Jakarta: InternaPublishing.
- Anonim 2013. Indonesian Health Profil. Departemen Kesehatan Indonesia. <http://www.depkes.go.id/resources/download/pusdatin/profil-kesehatan-indonesia/Indonesia%20Health%20Profile%202013%20-%20v2%20untuk%20web.pdf>. Diakses pada Hari Sabtu, 09 Desember 2017.
- Anonim, 2017. Obesity and Overweight. World Health Organization. <http://www.who.int/mediacentre/factsheets/fs311/en/>. Diakses pada Hari Sabtu, 09 Desember 2017.
- Arora, T., Anastasovska, J., Gibson, G., Tuohy, K., Sharma, R. K., Bell, J., & Frost, G. 2012. *Effect of Lactobacillus acidophilus NCDC 13 supplementation on the progression of obesity in diet-induced obese mice*. British Journal of Nutrition, 108(8), 1382-1389.
- Banyuaji, A., Rahayu, E. S., & Utami, T. 2009. *Viabilitas Lactobacillus acidophilus SNP 2 dalam kapsul dan aplikasinya dalam es krim*. Agritech, 29(4).
- Boyle, R. J., Robins-Browne, R. M., & Tang, M. L. 2006. *Probiotic use in clinical practice: what are the risks?*. The American journal of clinical nutrition, 83(6), 1256-1264.

- Bridges, C. B., Fukuda, K., Uyeki, T. M., Cox, N. J., & Singleton, J. A. 2002. *Prevention and control of influenza. Recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR. Recommendations and reports: Morbidity and mortality weekly report. Recommendations and reports*, 51(RR-3), 1-31.
- Cani, P. D., & Delzenne, N. M. 2009. *The role of the gut microbiota in energy metabolism and metabolic disease*. *Current pharmaceutical design*, 15(13), 1546-1558.
- Collado, M. C., Gueimonde, M., Hernandez, M., Sanz, Y., & Salminen, S. 2005. *Adhesion of selected Bifidobacterium strains to human intestinal mucus and the role of adhesion in enteropathogen exclusion*. *Journal of food protection*, 68(12), 2672-2678.
- Collado, M. C., Suroño, I., Meriluoto, J., & Salminen, S. 2007. *Indigenous Dadih Lactic Acid Bacteria: Cell-Surface Properties and Interactions with Pathogens*. *Journal of food science*, 72(3).
- Corr, S. C., Gahan, C. G., & Hill, C. 2007. *Impact of selected Lactobacillus and Bifidobacterium species on Listeria monocytogenes infection and the mucosal immune response*. *FEMS Immunology & Medical Microbiology*, 50(3), 380-388.
- Dahlan, Z. 2007. *Buku Ajar Ilmu Penyakit Dalam Jilid II Edisi IV*. Pusat Penerbitan Departemen Ilmu Penyakit Dalam FKUI, Jakarta.
- Damayanti W DI, Synthana MR, Juffrie M. 2006. *Antibiotic associated diarrhea di rumah sakit Dr. Sardjito Yogyakarta*. *JGAI*;2:31-4.
- De Roos, N. M., & Katan, M. B. 2000. *Effects of probiotic bacteria on diarrhea, lipid metabolism, and carcinogenesis: a review of papers published between 1988 and 1998*. *The American journal of clinical nutrition*, 71(2), 405-411.
- Delzenne, N. M., Neyrinck, A. M., Bäckhed, F., & Cani, P. D. 2011. *Targeting gut microbiota in obesity: effects of prebiotics and probiotics*. *Nature Reviews Endocrinology*, 7(11), 639-646.
- Dwiprahasto, I. 2003. *Kebijakan Penggunaan Antibiotika Profilaksi Untuk Mencegah Infeksi Luka Operasi Di Rumah Sakit*. *Jurnal Manajemen Pelayanan Kesehatan*, 6(01).
- Fabian, E., & Elmadfa, I. 2006. *Influence of daily consumption of probiotic and conventional yoghurt on the plasma lipid profile in young healthy women*. *Annals of nutrition and metabolism*, 50(4), 387-393.



- Fujiwara, D., Inoue, S., Wakabayashi, H., & Fujii, T. 2004. *The anti-allergic effects of lactic acid bacteria are strain dependent and mediated by effects on both Th1/Th2 cytokine expression and balance*. International archives of allergy and immunology, 135(3), 205-215.
- Gerritsen, J., Smidt, H., Rijkers, G. T., & Vos, W. M. 2011. *Intestinal microbiota in human health and disease: the impact of probiotics*. Genes & nutrition, 6(3), 209.
- Gilliland, S. E. 1990. *Health and nutritional benefits from lactic acid bacteria*. FEMS Microbiology letters, 87(1-2), 175-188.
- Guyton, A. 2007. *Buku Ajar Fisiologi Kedokteran*. Penerbit Buku Kedokteran. Jakarta.
- Harmayani, E., Rahayu, E. S., & Utami, T. 2012. *Ketahanan dan viabilitas probiotik bakteri asam laktat selama proses pembuatan kultur kering dengan metode freeze dan spray drying*. Jurnal Teknologi dan Industri Pangan, 12(2), 126.
- Hirahatake, K.M., J.L Slavin, K.C. Maiki, S.H. Adams. 2014. *Associations between dairy foods, diabetes, and metabolic health: potential mechanism and future directions*. Metabolism clinical and experimental xx:1-8.
- Hotel, A. C. P., & Cordoba, A. 2001. *Health and nutritional properties of probiotics in food including powder milk with live lactic acid bacteria*. Prevention, 5(1).
- Isolauri, E., Sütas, Y., Kankaanpää, P., Arvilommi, H., & Salminen, S. 2001. *Probiotics: effects on immunity*. The American journal of clinical nutrition, 73(2), 444s-450s.
- Jones, M. L., Tomaro-Duchesneau, C., Martoni, C. J., & Prakash, S. 2013. *Cholesterol lowering with bile salt hydrolase-active probiotic bacteria, mechanism of action, clinical evidence, and future direction for heart health applications*. Expert opinion on biological therapy, 13(5), 631-642.
- Julia, M., Harmayani, E., Ikawati, M., & Baliarti, E. 2015. *Potency of *Lactobacillus plantarum* Dad-13 and sweet potato (*Ipomoea batatas*) fiber as immunomodulator in rats infected with *Salmonella typhimurium**. Journal of Food Research, 4(3), 1.
- Kabir, A. M., Aiba, Y., Takagi, A., Kamiya, S., Miwa, T., & Koga, Y. 1997. *Prevention of *Helicobacter pylori* infection by lactobacilli in a gnotobiotic murine model*. Gut, 41(1), 49-55.



Kementrian Kesehatan Republik Indonesia. 2013. *Riset kesehatan dasar 2013*. Jakarta: Badan Litbangkes.

Kelly, D., Conway, S., & Aminov, R. 2005. *Commensal gut bacteria: mechanisms of immune modulation*. Trends in immunology, 26(6), 326-333.

Kumar, M., Nagpal, R., Kumar, R., Hemalatha, R., Verma, V., Kumar, A., & Yadav, H. 2012. *Cholesterol-lowering probiotics as potential biotherapeutics for metabolic diseases*. Experimental diabetes research, 2012.

Kusmiati, M., Herdiansyah, K. D., & Nuraeni, S. 2015. *Gambaran kadar glukosa dan kolesterol total pada penderita obesitas sebelum dan sesudah mengkonsumsi minuman probiotik*. Jurnal Kesehatan Bakti Tunas Husada, 14(1), 52-55.

Leyer, G. J., Li, S., Mubasher, M. E., Reifer, C., & Ouwehand, A. C. 2009. *Probiotic effects on cold and influenza-like symptom incidence and duration in children*. Pediatrics, 124(2), e172-e179.

Ljungh, A., & Wadstrom, T. 2006. *Lactic acid bacteria as probiotics*. Current issues in intestinal microbiology, 7(2), 73-90.

Mahdavi, A. H., Rahmani, H. R., & Pourreza, J. 2005. *Effect of probiotic supplements on egg quality and laying hen's performance*. Int. J. Poultry Sci, 4(4), 488-492.

Makino, S., Ikegami, S., Kume, A., Horiuchi, H., Sasaki, H., & Orii, N. 2010. *Reducing the risk of infection in the elderly by dietary intake of yoghurt fermented with *Lactobacillus delbrueckii* ssp. *bulgaricus* OLL1073R-1*. British journal of nutrition, 104(7), 998-1006.

Marteau, P. R., de Vrese, M., Cellier, C. J., & Schrezenmeir, J. 2001. *Protection from gastrointestinal diseases with the use of probiotics*. The American journal of clinical nutrition, 73(2), 430s-436s.

Maryati, Y., Nuraida, L., & Hariyadi, R. D. 2016. *Kajian Isolat Bakteri Asam Laktat dalam Menurunkan Kolesterol Secara In Vitro dengan Keberadaan Oligosakarida*. Agritech, 36(2), 196-205.

Masuda, S., Yamaguchi, H., Kurokawa, T., Shirakami, T., Tsuji, R. F., & Nishimura, I. 2008. *Immunomodulatory effect of halophilic lactic acid bacterium *Tetragenococcus halophilus* Th221 from soy sauce moromi grown in high-salt medium*. International journal of food microbiology, 121(3), 245-252..



Murray, R.K., D.K. Granner, D.A. Mayes, and V.W. Rodwell. 2003. *Harpers illustrated biochemistry 26th Edition*. McGraw-Hill. New York.

Nagai, T., Makino, S., Ikegami, S., Itoh, H., & Yamada, H. 2011. *Effects of oral administration of yogurt fermented with Lactobacillus delbrueckii ssp. bulgaricus OLL1073R-1 and its exopolysaccharides against influenza virus infection in mice*. International immunopharmacology, 11(12), 2246-2250.

Ng, M., Fleming, T., Robinson, M., Thomson, B., Graetz, N., Margono, C., ... & Abraham, J. P. 2014. Global, regional, and national prevalence of overweight and obesity in children and adults during 1980–2013: a systematic analysis for the Global Burden of Disease Study 2013. *The lancet*, 384(9945), 766-781.

Ngatirah, H. E., Rahayu, E. S., & Utami, T. 2000. *Seleksi bakteri asam laktat sebagai agensia probiotik yang berpotensi menurunkan kolesterol*. In *Prosiding Seminar Nasional Industri Pangan. PATPI (II)*: 63-70.

Park, D. Y., Ahn, Y. T., Huh, C. S., Jeon, S. M., & Choi, M. S. 2011. *The inhibitory effect of Lactobacillus plantarum KY1032 cell extract on the adipogenesis of 3T3-L1 Cells*. *Journal of medicinal food*, 14(6), 670-675.

Purwandhani, S. N., & Rahayu, E. S. 2003. *Isolasi dan seleksi lactobacillus yang berpotensi sebagai agensia probiotik Isolation and selection of lactobacillus potentials..Agritech*, 23: 67-74.

Purwandhani, S. N., Rahayu, E. S., & Suladra, M. 2012. Efektivitas suplementasi agensia probiotik *Lactobacillus acidophilus* SNP-2 pada pembuatan tape ketan dan brem. *Agritech*, 28(04).

Rachmi, C. N., Li, M., & Baur, L. A. 2017. *Overweight and obesity in Indonesia: prevalence and risk factors—a literature review*. *Public Health*, 147, 20-29.

Rajendhran, J., & Gunasekaran, P. 2011. *Microbial phylogeny and diversity: small subunit ribosomal RNA sequence analysis and beyond*. *Microbiological research*, 166(2), 99-110.

Rahayu, E. S., Cahyanto, M. N., Sarwoko, M. A., Haryono, P., Windiarti, L., Sutriyanto, J., & Utami, T. 2016. Effects of consumption of fermented milk containing indigenous probiotic *Lactobacillus plantarum* Dad-13 on the fecal microbiota of healthy Indonesian volunteers. *International Journal of Probiotics & Prebiotics*, 11(2).

Rahayu, E. S., Yogeswara, A., Windiarti, L., Utami, T., & Watanabe, K. 2015. Molecular characteristics of indigenous probiotic strains from Indonesia. *International Journal of Probiotics & Prebiotics*, 10(4), 109.

Rahayu, E.S. 2003. *Lactic acid bacteria in fermented foods of Indonesian origin*. *Agritech* 23 (2): 75-84.

Rahayu, E.S., Djafar, T.F., Wibowo, D. Dan Sudarmadji, S. 1996. *Lactic acid bacteria from indigenous fermented food and their antimicrobial activity*. *Indonesian Food and Nutrition Progress* 3: 21-28

Rahayu, E.S., Yogeswara A., Utami, T., and Suparmo. 2011. *Indigenous Probiotic Strains of Indonesia and Their Application for Fermented Food*. The 12th Asean Food Conference 2011, Bangkok, Thailand. Pages 400- 405.

Reeves, P.G., F. H. Nilson, dan G. C. Fahey. 1993. *Purified Diet For Laboratory Rodents: Final Report Of The American Institute Of Nutrition Ad Hoc Writing Committee On The Reformulation Of AIN-76 A Rodent Diet*. *Journal Nutrition* volume 123 : 1939-1951.

Reid, G., Jass, J., Sebulsky, M. T., & McCormick, J. K. 2003. *Potential uses of probiotics in clinical practice*. *Clinical microbiology reviews*, 16(4), 658-672.

Roberfroid, M. B. 2000. *Prebiotics and probiotics: are they functional foods?*. *The American journal of clinical nutrition*, 71(6), 1682s-1687s.

Santoso, U., Tanaka, K., & Ohtani, S. 1995. *Effect of dried Bacillus subtilis culture on growth, body composition and hepatic lipogenic enzyme activity in female broiler chicks*. *British Journal of Nutrition*, 74(4), 523-529.

Scanlon. 2007. *Buku Ajar Anatomi dan fisiologi Edisi 3*. Jakarta: Penerbit Buku Kedokteran EGC.

Schiffrin, E. J., Brassart, D., Servin, A. L., Rochat, F., & Donnet-Hughes, A. 1997. *Immune modulation of blood leukocytes in humans by lactic acid bacteria: criteria for strain selection*. *The American journal of clinical nutrition*, 66(2), 515S-520S.

Setchell, K. D. R., & Adlercreutz, H. 1988. *Mammalian Lignans and Phytoestrogens Recent Studies on their Formation, Metabolism and Biological Role in Health and Role of the gut flora in toxicity and cancer*, 315.



Sri Usmiati dan Tyas Utami. 2008. *Pengaruh bakteri probiotik terhadap mutu sari kacang tanah fermentasi*. Jurnal Pascapanen 5(2) 2008:27-36.

Srigondo, B. 1981. *Jumlah ulangan dalam percobaan, dalam rancangan percobaan*. Universitas Diponegoro, ed, hal 101-106. Semarang : Universitas Diponegoro Press.

Stanton, C., Gardiner, G., Meehan, H., Collins, K., Fitzgerald, G., Lynch, P. B., & Ross, R. P. 2001. *Market potential for probiotics*. The American journal of clinical nutrition, 73(2), 476s-483s.

Suau, A., Bonnet, R., Sutren, M., Godon, J. J., Gibson, G. R., Collins, M. D., & Doré, J. 1999. *Direct analysis of genes encoding 16S rRNA from complex communities reveals many novel molecular species within the human gut*. Applied and environmental microbiology, 65(11), 4799-4807.

Sugiono. 2004. *Statistik untuk penelitian*. Bandung : Alfabeta.

Sumaryati, B. T., Utami, T., & Suparmo, S. 2012. *Pengaruh Infeksi Escherichia coli dan Pemberian Lactobacillus plantarum Dad 13 terhadap Mikrobiota Feses Tikus Wistar*. Agritech, 29(4).

Surono, I. S. 2003. *In vitro probiotic properties of indigenous dadih lactic acid bacteria*. Asian Australasian Journal of Animal Sciences, 16(5), 726-731.

Surono, I. S. 2015. *Traditional Indonesian dairy foods*. Asia Pacific journal of clinical nutrition, 24(S1), s26-s30.

Surono, I.S. 2004. *Probiotik, susu fermentasi dan kesehatan*. Tri Cipta karya. Jakarta.

Suvarna, V. C., & Boby, V. U. 2005. *Probiotics in human health: A current assessment*. Current science, 88(11), 1744-1748.

Tubelius, P., Stan, V., & Zachrisson, A. 2005. *Increasing work-place healthiness with the probiotic Lactobacillus reuteri: a randomised, double-blind placebo-controlled study*. Environmental Health, 4(1), 25.

Usmiati, S. 2013. *Pengembangan dadih sebagai pangan fungsional probiotik asli Sumatera Barat*. Jurnal Penelitian dan Pengembangan Pertanian, 32(1), 20-29.

Utami, K. S., & Mahdi, C. 2017. *Potential of Lactobacillus casei Shirota Strain Probiotic Toward Total Cholesterol Levels and Sod Activity in Rat with High Cholesterol Diet*. Molekul, 12(2), 153-158.



- Utami, Iyas and Pangastuti, Palupi Melati and Rahayu, Endang Sutriswati .2011. acid production and antioxidant activity in peanut milk fermented with *Lactobacillus paracasei* SNP2 and *Lactobacillus plantarum* DAD 13. In: International Food Conference 2011 "Life Improvement Through Food Technology", 28-29 October 2011, Surabaya.
- Wardani, S. K., Cahyanto, M. N., Rahayu, E. S., & Utami, T. 2017. *The effect of inoculum size and incubation temperature on cell growth, acid production and curd formation during milk fermentation by Lactobacillus plantarum* Dad 13. International Food Research Journal, 24(3).
- Wolf, B. W., Wheeler, K. B., Ataya, D. G., & Garleb, K. A. 1998. *Safety and tolerance of Lactobacillus reuteri* supplementation to a population infected with the human immunodeficiency virus. Food and Chemical Toxicology, 36(12), 1085-1094.
- Wulandari, R. 2017. Kualitas es krim yoghurt sinbiotik dengan kombinasi umbi gembili (*Dioscorea esculenta*) dan ubi jalar ungu (*Ipomoea batatas* var. *ayamurasaki*). Disertasi UAJY. Yogyakarta.
- Yin, Y. N., Yu, Q. F., Fu, N., Liu, X. W., & Lu, F. G. 2010. *Effects of four Bifidobacteria on obesity in high-fat diet induced rats*. World journal of gastroenterology: WJG, 16(27), 3394.
- Youn, H. N., Lee, D. H., Lee, Y. N., Park, J. K., Yuk, S. S., Yang, S. Y., ... & Park, S. Y. 2012. *Intranasal administration of live Lactobacillus species facilitates protection against influenza virus infection in mice*. Antiviral research, 93(1), 138-143.
- Young, R. J., & Huffman, S. 2003. *Probiotic use in children*. Journal of Pediatric Health Care, 17(6), 277-283.
- Yuliana, D. 2012. *Kajian Mekanisme Hipokolesterolemik Probiotik*. Majalah Farmasi dan farmakologi Vol. 16.