

DAFTAR PUSTAKA

- Acharya, A.B., Thakur, S. & Muddapur, M.V. 2015. Evaluation of serum interleukin-10 levels as a predictor of glycemc alteration in chronic periodontitis and type 2 diabetes mellitus. *Journal of Indian Society of Periodontology*, vol. 19, no. 4, pp. 388–392.
- Al-Shukaili, A., Al-Ghafri, S., Al-Marhoobi, S., Al-Abri, S., Al-Lawati, J. & Al-Maskari, M. 2013. Analysis of inflammatory mediators in type 2 diabetes patients. *International Journal of Endocrinology*, vol. 2013, pp. 8–10.
- Alard, P., Manirarora, J.N., Parnell, S.A., Hu, Y.H. & Kosiewicz, M.M. 2011. Nod dendritic cells stimulated with lactobacilli preferentially produce IL-10 versus IL-12 and decrease diabetes incidence. *Clinical and Developmental Immunology*, vol. 2011.
- Alipour, B., Homayouni-Rad, A., Vaghef-Mehrabany, E., Sharif, S.K., Vaghef-Mehrabany, L., Asghari-Jafarabadi, M., Nakhjavani, M.R. & Mohtadi-Nia, J. 2014. Effects of Lactobacillus casei supplementation on disease activity and inflammatory cytokines in rheumatoid arthritis patients: A randomized double-blind clinical trial. *International Journal of Rheumatic Diseases*, vol. 17, no. 5, pp. 519–527.
- American Diabetes Association 2017. Classification and diagnosis of diabetes. *Diabetes Care*, vol. 40, no. January, pp. S11–S24.
- Apriani, N., Suhartono, E. & Akbar, I. 2011. Korelasi Kadar Glukosa Darah Dengan Kadar Advanced Oxidation Protein Products (AOPP) Tulang Pada Tikus Putih Model Hiperglikemia. *Maranatha Journal of Medicine and Health*, vol. 11, no. 1, pp. 48–55.

- Atzeni, F. & Sarzi-Puttini, P. 2013. *Tumor Necrosis Factor*. Elsevier Inc.
- Azad, M.A.K., Sarker, M. & Wan, D. 2018. Immunomodulatory Effects of Probiotics on Cytokine Profiles. *BioMed Research International*, vol. 2018.
- Baldo, B.A. 2016. *Safety of Biologics Therapy*. Sydney, Australia: Springer International Publishing Switzerland.
- Le Barz, M., Anhê, F.F., Varin, T. V., Desjardins, Y., Levy, E., Roy, D., Urdaci, M.C. & Marette, A. 2015. Probiotics as complementary treatment for metabolic disorders. *Diabetes and Metabolism Journal*, vol. 39, no. 4, pp. 291–303.
- C. Bast Jr, R., Croce, C.M., Hait, W., Hong, W.K., Kufe, D.W., Piccart-Gebhart, M., Pollock, R.E., Weichselbaum, Ralph R. Wang, H. & Holland, J.F. 2019. *Holland-Frei Cancer Medicine*. 9th Editio. NewJersey: JohnWiley & Sons, Inc.
- Chen, P., Zhang, Q., Dang, H., Liu, X., Tian, F., Zhao, J., Chen, Y., Zhang, H. & Chen, W. 2014. Antidiabetic effect of *Lactobacillus casei* CCFM0412 on mice with type 2 diabetes induced by a high-fat diet and streptozotocin. *Nutrition*, vol. 30, no. 9, pp. 1061–1068.
- Cimini, F.A., Barchetta, I., Porzia, A., Mainiero, F., Costantino, C., Bertocchini, L., Ceccarelli, V., Morini, S., Baroni, M.G., Lenzi, A. & Cavallo, M.G. 2017. Circulating IL-8 levels are increased in patients with type 2 diabetes and associated with worse inflammatory and cardiometabolic profile. *Acta Diabetologica*, vol. 54, no. 10, pp. 961–967.
- Cruse, J.M. & Lewis, R.E. 2010. *Atlas of Immunology*. 3th Editio. United States of America: CRC Press.

- Dallal, M.M., Yazdi, M.H., Holakuyee, M., Hassan, Z.M., Abolhassani, M. & Mahdavi, M. 2011. *Lactobacillus casei* ssp. *Casei* could induce the TH1 cytokine production and Natural Killer cells activity in BALB/C mice bearing invasive ductal carcinoma. *Journal of Cancer Science and Therapy*, vol. 3, no. June, p. 147.
- Deepthi, B., Sowjanya, K., Lidiya, B., Bhargavi, R. & Babu, P. 2018. A Modern Review of Diabetes Mellitus: An Annihilatory Metabolic Disorder. *Journal of In Silico & In Vitro Pharmacology*, vol. 03, no. 01, pp. 1–5.
- Dembic, Z. 2015. *The Cytokines of the Immune System THE ROLE OF CYTOKINES IN DISEASE RELATED TO IMMUNE RESPONSE*. United States of America: Elsevier Inc.
- Djuanedi, D. 2011. PENGARUH PROBIOTIK PADA RESPON IMUN. *Kedokteran Brawijaya*.
- Van Exel, E., Gussekloo, J., De Craen, A.J.M., Frölich, M., Wiel, A.B. Van Der & Westendorp, R.G.J. 2002. Low production capacity of interleukin-10 associates with the metabolic syndrome and type 2 diabetes: The Leiden 85-plus study. *Diabetes*, vol. 51, no. 4, pp. 1088–1092.
- Ferreira, V.L., Borba, H.H., Bonetti, A. de F., Leonart, L.P. & Pontarolo, R. 2019. Cytokines and Interferons: Types and Functions. *Autoantibodies and Cytokines*.
- Gasparyan, A.Y., Ayyazyan, L., Blackmore, H. & Kitas, G.D. 2011. Writing a narrative biomedical review: Considerations for authors, peer reviewers, and editors. *Rheumatology International*, vol. 31, no. 11, pp. 1409–1417.
- Gobbetti, M. & Minervini, F. 2014. *Lactobacillus: Lactobacillus casei*. Second Edi.

Elsevier.

Guo, X., Meng, G., Liu, F., Zhang, Q., Liu, L., Wu, H., Du, H., Shi, H., Xia, Y., Liu, X., Li, C., Bao, X., Su, Q., Gu, Y., Fang, L., Yu, F., Yang, H., Yu, B., Sun, S., Wang, X., Zhou, M., Jia, Q., Chen, X., Huang, G., Song, K. & Niu, K. 2016. Serum levels of immunoglobulins in an adult population and their relationship with type 2 diabetes. *Diabetes Research and Clinical Practice*, vol. 115, pp. 76–82.

Gurung, M., Li, Z., You, H., Rodrigues, R., Jump, D.B., Morgun, A. & Shulzhenko, N. 2020. Role of gut microbiota in type 2 diabetes pathophysiology. *EBioMedicine*, vol. 51, pp. 1–9.

Hegazi, A.G. & Abdel-rahman, E.H. 2015. Cytokines. , pp. 1–38.

Hung, S.C., Tseng, W.T. & Pan, T.M. 2016. *Lactobacillus paracasei* subsp. *paracasei* NTU 101 ameliorates impaired glucose tolerance induced by a high-fat, high-fructose diet in Sprague-Dawley rats. *Journal of Functional Foods*, vol. 24, no. 1, pp. 472–481.

IDF 2019. *IDF DIABETES ATLAS Ninth edition*.

Integrated Taxonomix Information System (ITIS) 2012. *Lactobacillus casei*. *ITIS Report*, p. 962782.

Jin, X., Yao, T., Zhou, Z., Zhu, J., Zhang, S., Hu, W. & Shen, C. 2015. Advanced glycation end products enhance macrophages polarization into M1 phenotype through activating RAGE/NF- κ B Pathway. *BioMed Research International*, vol. 2015.

Jones, R.M. 2017. *The Use of Lactobacillus casei and Lactobacillus paracasei in Clinical Trials for the Improvement of Human Health*. Elsevier Inc.

- Kahal, H., Halama, A., Aburima, A., Bhagwat, A.M., Butler, A.E., Grauman, J., Suhre, K., Sathyapalan, T. & Atkin, S.L. 2020. Effect of induced hypoglycemia on inflammation and oxidative stress in type 2 diabetes and control subjects. *Scientific Reports*, vol. 10, no. 1, pp. 1–8.
- Kellow, N.J., Coughlan, M.T., Savige, G.S. & Reid, C.M. 2014. Effect of dietary prebiotic supplementation on advanced glycation, insulin resistance and inflammatory biomarkers in adults with pre-diabetes: A study protocol for a double-blind placebo-controlled randomised crossover clinical trial. *BMC Endocrine Disorders*, vol. 14, no. 1, pp. 1–12.
- Kementerian Kesehatan Republik Indonesia 2018. Riset Kesehatan Dasar (RISKESDAS) 2018. *Riskesdas Kemenkes*, vol. 44, no. 8, pp. 1–200.
- Kleniewska, P., Hoffmann, A., Pniewska, E. & Pawliczak, R. 2016. The Influence of Probiotic *Lactobacillus casei* in Combination with Prebiotic Inulin on the Antioxidant Capacity of Human Plasma. *Oxidative Medicine and Cellular Longevity*, vol. 2016.
- Kocsis, T., Molnár, B., Németh, D., Hegyi, P., Szakács, Z., Bálint, A., Garami, A., Soós, A., Márta, K. & Solymár, M. 2020. Probiotics have beneficial metabolic effects in patients with type 2 diabetes mellitus: a meta-analysis of randomized clinical trials. *Scientific Reports*, vol. 10, no. 1, pp. 1–14.
- Kusumaningsih, T. 2014. Peran bakteri probiotik terhadap Innate Immune Cell (The role of probiotic bacteria on Innate Immune Cells). , vol. 6, no. 2, pp. 45–50.
- Lamster, I.B. 2014. *Diabetes mellitus and oral health*. 3th Editio. Oxford: John Wiley & Sons, Inc.

- Li, X., Wang, E., Yin, B., Fang, D., Chen, P., Wang, G., Zhao, J., Zhang, H. & Chen, W. 2017. Effects of lactobacillus casei CCFM419 on insulin resistance and gut microbiota in type 2 diabetic mice. *Beneficial Microbes*, vol. 8, no. 3, pp. 421–432.
- Linhartova, P.B., Kavrikova, D., Tomandlova, M., Poskerova, H., Rehka, V., Dušek, L. & Holla, L.I. 2018. Differences in interleukin-8 plasma levels between diabetic patients and healthy individuals independently on their periodontal status. *International Journal of Molecular Sciences*, vol. 19, no. 10, pp. 1–17.
- Mahajan, B., Snehi, S.K. & Singh, V. 2018. Antidiabetic and Anti-Inflammatory Effect of Probiotic Lactobacillus Paracasei Mcc3195 in High Fructose Fed Type 2 Diabetic Rats. *International Journal of Pharmaceutical Sciences and Research*, vol. 9, no. 9, pp. 3764–3773.
- Mahlangu, T., Dlodla, P. V., Nyambuya, T.M., Mxinwa, V., Mazibuko-Mbeje, S.E., Cirilli, I., Marcheggiani, F., Tiano, L., Louw, J. & Nkambule, B.B. 2020. A systematic review on the functional role of Th1/Th2 cytokines in type 2 diabetes and related metabolic complications. *Cytokine*, vol. 126, no. May 2019, p. 154892.
- Martarelli, D., Verdenelli, M.C., Scuri, S., Cocchioni, M., Silvi, S., Cecchini, C. & Pompei, P. 2011. Effect of a probiotic intake on oxidant and antioxidant parameters in plasma of athletes during intense exercise training. *Current Microbiology*, vol. 62, no. 6, pp. 1689–1696.
- Mauri-Obradors, E., Estrugo-Devesa, A., Jané-Salas, E., Viñas, M. & López-López, J. 2017. Oral manifestations of diabetes mellitus. A systematic review.

- Medicina Oral, Patologia Oral y Cirugia Bucal*, vol. 22, no. 5, pp. e586–e594.
- Menon, A. 2016. Implications of Probiotics on Oral Health: Past-to-Present. *Journal of Dental Research and Review*, vol. 3, no. 1, p. 36.
- Milajerdi, A., Mousavi, S.M., Sadeghi, A., Salari-Moghaddam, A., Parohan, M., Larijani, B. & Esmailzadeh, A. 2020. The effect of probiotics on inflammatory biomarkers: a meta-analysis of randomized clinical trials. *European Journal of Nutrition*, vol. 59, no. 2, pp. 633–649.
- Miraghajani, M., Dehsoukhteh, S.S., Rafie, N., Hamedani, S.G., Sabihi, S. & Ghiasvand, R. 2017. Potential mechanisms linking probiotics to diabetes: a narrative review of the literature. *Sao Paulo Medical Journal*, vol. 135, no. 2, pp. 169–178.
- Nazir, Y., Hussain, S.A., Abdul Hamid, A. & Song, Y. 2018. Probiotics and Their Potential Preventive and Therapeutic Role for Cancer, High Serum Cholesterol, and Allergic and HIV Diseases. *BioMed Research International*, vol. 2018.
- Nugroho, L., Murti, W. & Ayumuyas, N.P. 2019. Probiotics Usage as Therapy on Diabetes Mellitus Type II : A Literature Review. , vol. 4, no. 2, pp. 73–77.
- Oguntibeju, O.O. 2019. Type 2 diabetes mellitus, oxidative stress and inflammation: examining the links - Rview Article. , vol. 11, no. 3, pp. 45–63.
- Okoli, C. & Schabram, K. 2010. A Guide to Conducting a Systematic Literature Review of Information Systems Research. *Working Papers on Information Systems*, vol. 10, no. 2010.

- Olokaba, A.B., Obateru, O.A. & Olokaba, L.B. 2012. Type 2 Diabetes: a Review of Current Trends. *International Journal of Current Research and Review*, vol. 27, no. 4, pp. 269–273.
- Pandey, A., Singhai, V., Bagaria, A. & Chandra, C. 2019. Probiotics in dentistry. *International Journal of Applied Dental Sciences*, vol. 5, no. 3, pp. 219–221.
- Pavithra, R.. & Lakshmisree, S. 2015. Probiotics – A Miracle in Periodontal Therapy. *Scholars Journal of Dental Sciences*, vol. 2, no. 4, pp. 265–269.
- Plaza-Diaz, J., Ruiz-Ojeda, F.J., Gil-Campos, M. & Gil, A. 2019. Mechanisms of Action of Probiotics. *Advances in Nutrition*, vol. 10, pp. S49–S66.
- Poretzky, L., Friedman, G.J. & Hill, L. 2017. *Principles of Diabetes Mellitus*. 3th Editio. Switzerland: Springer International Publishing.
- Punthakee, Z., Goldenberg, R. & Katz, P. 2018. Definition, Classification and Diagnosis of Diabetes, Prediabetes and Metabolic Syndrome. *Canadian Journal of Diabetes*, vol. 42, pp. S10–S15.
- Purnamasari, D., Khumaedi, A.I., Soeroso, Y. & Marhamah, S. 2019a. The influence of diabetes and or periodontitis on inflammation and adiponectin level. *Diabetes and Metabolic Syndrome: Clinical Research and Reviews*, vol. 13, no. 3, pp. 2176–2182.
- Purnamasari, D., Khumaedi, A.I., Soeroso, Y. & Marhamah, S. 2019b. The influence of diabetes and or periodontitis on inflammation and adiponectin level. *Diabetes and Metabolic Syndrome: Clinical Research and Reviews*, vol. 13, no. 3, pp. 2176–2182.
- Rabiee, M.R. & Babajafari, S. 2018. Probiotics and Diabetes : A Review. , vol. 3, no. 2, pp. 73–81.

- Ramdhani, A., Ramdhani, M.A. & Amin, A.S. 2014. Writing a Literature Review Research Paper: A step-by-step approach Abdullah. *International Journal of Basics and Applied Sciences*, vol. 3, no. 1, pp. 47–56.
- Razmpoosh, E., Javadi, M., Ejtahed, H.-S. & Mirmiran, P. 2016. Probiotics as beneficial agents in the management of diabetes mellitus: a systematic review Elham. *Diabetes/Metabolism Research and Reviews*, vol. 32, pp. 143–168.
- Rehman, K. & Akash, M.S.H. 2016. Mechanisms of inflammatory responses and development of insulin resistance: How are they interlinked? *Journal of Biomedical Science*, vol. 23, no. 1, pp. 1–18.
- Rocha-Ramírez, L.M., Pérez-Solano, R.A., Castañón-Alonso, S.L., Moreno Guerrero, S.S., Ramírez Pacheco, A., García Garibay, M. & Eslava, C. 2017. Probiotic Lactobacillus Strains Stimulate the Inflammatory Response and Activate Human Macrophages. *Journal of Immunology Research*, vol. 2017.
- Rohani, B. 2019. Contents. *World Journal of Diabetes*, vol. 10, no. 9, pp. 485–489.
- Sen, S., Chakraborty, R., De, B., Sen, S., Chakraborty, R. & De, B. 2016. *Diabetes Mellitus: General Consideration*.
- Sharma, P., Bhardwaj, P. & Singh, R. 2016. Administration of lactobacillus casei and bifidobacterium bifidum ameliorated hyperglycemia, dyslipidemia, and oxidative stress in diabetic rats . *International Journal of Preventive Medicine*, vol. 7, no. 1, p. 102.
- Shita, A.D.P. 2015. Perubahan Level TNF- α dan IL-1 pada Kondisi Diabetes Mellitus. *Prosiding Dentistry Scientific Meeting II, Fakultas Kedokteran Gigi, Universitas JEMBER*, , no. 1, pp. 1–7.
- Sun, Q., Li, J. & Gao, F. 2014. New insights into insulin: The anti-inflammatory

effect and its clinical relevance. *World Journal of Diabetes*, vol. 5, no. 2, p. 89.

Tavangar, A., Khozeimeh, F., Ghoreishian, F. & Boroujeni, M.A. 2016. Serum level of Interleukin-8 in subjects with diabetes, diabetes plus oral lichen planus, and oral lichen planus: A biochemical study. *Dental Research Journal*, vol. 13, no. 5, pp. 413–418.

Tonucci, L.B., Olbrich dos Santos, K.M., Licursi de Oliveira, L., Rocha Ribeiro, S.M. & Duarte Martino, H.S. 2017. Clinical application of probiotics in type 2 diabetes mellitus: A randomized, double-blind, placebo-controlled study. *Clinical Nutrition*, vol. 36, no. 1, pp. 85–92.

Tripolt, N.J., Leber, B., Blattl, D., Eder, M., Wonisch, W., Scharnagl, H., Stojakovic, T., Obermayer-Pietsch, B., Wascher, T.C., Pieber, T.R., Stadlbauer, V. & Sourij, H. 2013. Short communication: Effect of supplementation with *Lactobacillus casei* Shirota on insulin sensitivity, β -cell function, and markers of endothelial function and inflammation in subjects with metabolic syndrome-A pilot study. *Journal of Dairy Science*, vol. 96, no. 1, pp. 89–95.

Tsukida, K., Takahashi, T., Iida, H., Kanmani, P., Suda, Y., Nochi, T., Ohwada, S., Aso, H., Ohkawara, S., Makino, S., Kano, H., Saito, T., Villena, J. & Kitazawa, H. 2016. Immunoregulatory effects triggered by immunobiotic *Lactobacillus jensenii* TL2937 strain involve efficient phagocytosis in porcine antigen presenting cells. *BMC Immunology*, vol. 17, no. 1, pp. 1–12.

Wang, G., Li, X., Zhao, J., Zhang, H. & Chen, W. 2017. *Lactobacillus casei* CCFM419 attenuates type 2 diabetes via a gut microbiota dependent

- mechanism. *Food and Function*, vol. 8, no. 9, pp. 3155–3164.
- Wei, S.H., Chen, Y.P. & Chen, M.J. 2015. Selecting probiotics with the abilities of enhancing GLP-1 to mitigate the progression of type 1 diabetes in vitro and in vivo. *Journal of Functional Foods*, vol. 18, no. 50, pp. 473–486.
- WHO 2016. Global Report on Diabetes. *Isbn*, vol. 978, pp. 6–86.
- Widiyaningsih, E.N. 2011. Peran probiotik untuk kesehatan. , vol. 4, no. 1, pp. 14–20.
- Widodo, Soeparno & Wahyuni, E. 2003. Bioenkapsulasi Probiotik (*Lactobacillus casei*) dengan Pollard dan Tepung Terigu serta Pengaruhnya terhadap Viabilitas dan Laju Pengasaman. *Jurnal Teknologi dan Industri Pangan*, vol. XIV, no. 2, pp. 98–106.
- Widuri, A. & Suryani, L. 2011. Pengaruh suplementasi probiotik *Lactobacillus casei* L shirota strain terhadap kadar IgE penderita rinitis alergi. *ORLI*, vol. 41, no. 1, pp. 60–64.
- Widyarman, A.S., Bachtiar, E.W. & Bachtiar, B.M. 2019. Anti-inflammatory effect of *Lactobacillus casei* on human epithelial cell responses to oral pathogens. *Drug Invention Today*, vol. 12, no. 11, pp. 2605–12019.
- Yaghini, N., Mahmoodi, M., Asadikaram, G.R., Hassanshahi, G.H., Khoramdelazad, H. & Kazemi Arababadi, M. 2011. Serum levels of interleukin 10 (IL-10) in patients with type 2 diabetes. *Iranian Red Crescent Medical Journal*, vol. 13, no. 10, pp. 751–752.
- Yan, F., Li, N., Shi, J., Li, H., Yue, Y., Jiao, W., Wang, N., Song, Y., Huo, G. & Li, B. 2019. *Lactobacillus acidophilus* alleviates type 2 diabetes by regulating hepatic glucose, lipid metabolism and gut microbiota in mice. *Food and*

Function, vol. 10, no. 9, pp. 5804–5815.

Yuan, T., Yang, T., Chen, H., Fu, D., Hu, Y., Wang, J., Yuan, Q., Yu, H., Xu, W. & Xie, X. 2019. New insights into oxidative stress and inflammation during diabetes mellitus-accelerated atherosclerosis. *Redox Biology*, vol. 20, no. October 2018, pp. 247–260.

Yuniastuti, A. 2014. *Monograf Probiotik (Dalam Persepektif Kesehatan)*.

Zhang, Y., Guo, X., Guo, J., He, Q., Li, H., Song, Y. & Zhang, H. 2014. Lactobacillus casei reduces susceptibility to type 2 diabetes via microbiota-mediated body chloride ion influx. *Scientific Reports*, vol. 4, pp. 1–10.