

DAFTAR PUSTAKA

- Ahmad, A.M.R., Ahmed, W., Iqbal, S., Javed, M., Rashid, S., Iahthisham-ul-Haq, 2021. Prebiotics and iron bioavailability? Unveiling the hidden association - A review. *Trends in Food Science & Technology* 110, 584–590. <https://doi.org/10.1016/j.tifs.2021.01.085>
- Amin, K., Akhtar, S., Ismail, T., 2018. Nutritional and organoleptic evaluation of functional bread prepared from raw and processed defatted mango kernel flour. *J Food Process Preserv* 42, e13570. <https://doi.org/10.1111/jfpp.13570>
- AOAC, 2012. Official Method of Analysis of Association of Official Analytical Chemist.
- Arbi, A.S., 2009. Modul Pengujian Sensori Pangan.
- Ashaolu, T.J., 2020. Immune boosting functional foods and their mechanisms: A critical evaluation of probiotics and prebiotics. *Biomedicine & Pharmacotherapy* 130, 110625. <https://doi.org/10.1016/j.biopha.2020.110625>
- Azhar, M., 2009. Inulin Sebagai Prebiotik. Fakultas MIPA UNP 12, 1–8.
- Aziza, T., Affandi, D.R., Manuhara, G.J., 2015. Bakso Ikan Tongkol (*Euthynnus affinis*) dengan Filler Tepung Gembili Sebagai Fortifikasi Inulin. *Jurnal Teknologi Hasil Pertanian* 8, 77–83. <https://doi.org/10.20961/jthp.v0i0.12894>
- Badan Standarisasi Nasional, 2006. Standar Nasional Indonesia Petunjuk Pengujian Organoleptik dan atau Sensori.
- Borman, R.I., Helmi, F., 2018. Penerapan Metode Perbandingan Eksponensial (MPE) Dalam Sistem Pendukung Keputusan Penerima Beasiswa Siswa Berprestasi Pada SMK XYZ. *Com, Engine, Sys, Sci* 3, 17. <https://doi.org/10.24114/cess.v3i1.8227>
- Bouhnik, Y., Raskine, L., Champion, K., Andrieux, C., Penven, S., Jacobs, H., Simoneau, G., 2007. Prolonged administration of low-dose inulin stimulates the growth of bifidobacteria in humans. *Nutrition Research* 27, 187–193. <https://doi.org/10.1016/j.nutres.2007.01.013>
- Badan POM, 2015. Peraturan Kepala Badan Pengawas Obat dan Makanan Republik Indonesia Nomor 9 Tahun 2015 Tentang Pengawasan Takaran Saji.

- Budiana, T.A., Marlina, D., 2020. Analisis Kecukupan Energi, Protein, Zink, dan Kalsium Pada Balita di Wilayah Kota Cimahi 2, 5.
- Casares, D., Escribá, P.V., Rosselló, C.A., 2019. Membrane Lipid Composition: Effect on Membrane and Organelle Structure, Function and Compartmentalization and Therapeutic Avenues. IJMS 20, 2167. <https://doi.org/10.3390/ijms20092167>
- Chen, Y.-L., Liao, F.-H., Lin, S.-H., Chien, Y.-W., 2016. A Prebiotic Formula Improves the Gastrointestinal Bacterial Flora in Toddlers. Gastroenterology Research and Practice 2016, 1–6. <https://doi.org/10.1155/2016/3504282>
- Chugh, B., Kamal-Eldin, A., 2020. Bioactive compounds produced by probiotics in food products. Current Opinion in Food Science 32, 76–82. <https://doi.org/10.1016/j.cofs.2020.02.003>
- Cikita, R.C., Petrika, Y., Waliyo, E., 2021. Pengaruh Tepung Pisang Kepok (*Musa Paradisiaca*) Yang Ditambahkan Pada Makanan Anak Stunting Terhadap Penurunan Bakteri E.Coli 4, 5.
- Ciptawati, E., Budi Rachman, I., Oktiyani Rusdi, H., Alvionita, M., 2021. Analisis Perbandingan Proses Pengolahan Ikan Lele terhadap Kadar Nutrisinya. IJCA 4, 40–46. <https://doi.org/10.20885/ijca.vol4.iss1.art5>
- Davani-Davari, D., Negahdaripour, M., Karimzadeh, I., Seifan, M., Mohkam, M., Masoumi, S., Berenjian, A., Ghasemi, Y., 2019. Prebiotics: Definition, Types, Sources, Mechanisms, and Clinical Applications. Foods 8, 92. <https://doi.org/10.3390/foods8030092>
- Deslana, N.R., 2019. Analisis Kandungan Karbohidrat dan Protein Dim Sum Berbahan Dasar Belut dan Tempe. Universitas Brawijaya, Malang.
- Dewanti, F.K., Rahayuni, A., 2013. Substitusi Inulin Umbi Gembili (*Dioscorea esculenta*) Pada Produk Es Krim Sebagai Alternatif Makanan Tinggi Serat dan Rendah Lemak. J. NutriColl 2, 474–482. <https://doi.org/10.14710/jnc.v2i4.3729>
- Dieterich, W., Schink, M., Zopf, Y., 2018. Microbiota in the Gastrointestinal Tract. Medical Sciences 6, 116. <https://doi.org/10.3390/medsci6040116>
- Duha, P., 2019. Analisis Mutu Fisik dan Mutu Kimia (Karbohidrat, Protein, Kansium) Cupcake Wortel Biji Durian Sebagai Bahan Pangan Fungsional. Politeknik Kesehatan Medan, Medan.
- Epriliati, I., 2000. Potensi *Dioscorea* dalam Pangan Fungsional.
- Ervietasari, N., Larasaty, F.A., 2021. Cookies Berbahan Umbi Gembili sebagai Inovasi Pangan yang Bernilai Ekonomi, Kaya Gizi, dan Menyehatkan. SINTECH 1, 15–22.

- Fahim, S.M., Das, S., Sanin, K.I., Gazi, Md.A., Mahfuz, M., Islam, M.M., Ahmed, T., 2018. Association of Fecal Markers of Environmental Enteric Dysfunction with Zinc among Children at First Two Years of Life in Bangladesh.
- Faizah, N.I., 2020. Pengaruh Lama Dan Tempat Penyimpanan Yang Berbeda Terhadap Kandungan Gizi Umbi Jalar (*Ipomoea batatas*) var. Manohara. *Jurnal Akademi Biologi (JAB)* 9, 8–14.
- Fathmah, E.N., Pujiyanto, S., 2019. Aktivitas Antibakteri Ekstrak Etanol dan Etil Asetat Batang Tanaman Brotowali (*Tinospora crispa*, L. Miers) terhadap Bakteri *Escherichia coli* Enteropatogenik (EPEC) Penyebab Penyakit Diare 8.
- Fitri, A.S., Fitriana, Y.A.N., 2020. Analisis Senyawa Kimia pada Karbohidrat. *Sainteks* 17, 45. <https://doi.org/10.30595/sainteks.v17i1.8536>
- Gibson, Y., Roberfroid, M.B., 1995. Dietary Modulation of the Human Colonie Microbiota: Introducing the Concept of Prebiotics 12.
- Hadi, S., 2019. Penetapan Kadar Air Dan Kadar Protein Pada Biskuit Yang Beredar Di Pasar Banjarbaru. *Cerata Jurnal Ilmu Farmasi* 10, 51–55.
- Hanif, A.A., 2021. Pengaruh Penambahan Sari Jambu Biji Merah Terhadap Kadar Total Vitamin C, Aktivitas Antioksidan, dan Sifat Organoleptik Es Krim Tomat. Universitas Pembangunan Nasional Veteran Jakarta, Jakarta.
- Hapsoro, M.T., Dewi, E.N., Amalia, U., 2017. Pengaruh Penambahan Tepung Cangkang Rajungan (*Portunus pelagicus*) dalam Pembuatan Cookies Kaya Kalsium. *Jurnal Pengolahan dan Bioteknologi Hasil Perikanan* 6.
- Helmyati, S., Yuliati, E., Wisnusanti, S.U., Maghribi, R., Juffrie, M., 2017. Kedaan Mikrobiota Saluran Cerna pada Anak Sekolah Dasar yang Mengalami Stunting di Lombok Barat. *jgizipangan* 12, 55–60. <https://doi.org/10.25182/jgp.2017.12.1.55-60>
- Herlina, Harijono, Subagio, A., Estiasih, T., 2020. Potensi Prebiotik Polisakarida Larut Air Umbi Gembili (*Dioscorea Esculenta L*) Secara In Vitro.
- Hurtado-Romero, A., Del Toro-Barbosa, M., Garcia-Amezquita, L.E., García-Cayuela, T., 2020. Innovative technologies for the production of food ingredients with prebiotic potential: Modifications, applications, and validation methods. *Trends in Food Science & Technology* 104, 117–131. <https://doi.org/10.1016/j.tifs.2020.08.007>

- Hutasoit, D.P., 2020. Pengaruh Sanitasi Makanan dan Kontaminasi Bakteri *Escherichia coli* Terhadap Penyakit Diare. *jiskh* 12, 779–786. <https://doi.org/10.35816/jiskh.v12i2.399>
- Jackson, P.P.J., Wijeyesekera, A., Theis, S., van Harsselaar, J., Rastall, R.A., 2022. Food for thought! Inulin-type fructans: Does the food matrix matter? *Journal of Functional Foods* 90, 104987. <https://doi.org/10.1016/j.jff.2022.104987>
- Joshi, D., Roy, S., Banerjee, S., 2018. Prebiotics, in: Natural Products and Drug Discovery. Elsevier, pp. 507–523. <https://doi.org/10.1016/B978-0-08-102081-4.00019-8>
- Jurnalis, Y.D., 2020. Pengaruh Pemberian Dadih Terhadap Keseimbangan Mikroflora Usus dan Tinggi Vili Ileum. *SP* 21, 207. <https://doi.org/10.14238/sp21.4.2019.207-12>
- Kementrian Kesehatan Republik Indonesia. 2021. Buku Saku Hasil Studi Kasus Gizi Indonesia (SSGI) Tingkat Nasional, Provinsi, dan Kabupaten Kota.
- Kementrian Kesehatan Republik Indonesia. 2018a. Hasil Utama Riset Kesehatan Dasar.
- Kementrian Kesehatan Republik Indonesia. 2018b. Tabel Komposisi Pangan Indonesia 2017.
- Khangwal, I., Shukla, P., 2019. Prospecting prebiotics, innovative evaluation methods, and their health applications: a review. *3 Biotech* 9, 187. <https://doi.org/10.1007/s13205-019-1716-6>
- Khasanah, Y., Nurhayari, R., Miftakhusholihah, Btari, S., Ratnaningrum, E., 2019. Isolation Oligosaccharides from Gembili (*Dioscorea esculenta* Lour. Burkill) as Prebiotics.
- Kierstan, M., 1983. Studies on enzymic methods for extraction of inulin from Jerusalem artichokes. *Enzyme and Microbial Technology* 5, 445–448. [https://doi.org/10.1016/0141-0229\(83\)90028-5](https://doi.org/10.1016/0141-0229(83)90028-5)
- Kolida, S., Meyer, D., Gibson, G.R., 2007. A double-blind placebo-controlled study to establish the bifidogenic dose of inulin in healthy humans. *Eur J Clin Nutr* 61, 1189–1195. <https://doi.org/10.1038/sj.ejcn.1602636>
- Le Bastard, Q., Chapelet, G., Javaudin, F., Lepelletier, D., Batard, E., Montassier, E., 2020. The effects of inulin on gut microbial composition: a systematic review of evidence from human studies. *Eur J Clin Microbiol Infect Dis* 39, 403–413. <https://doi.org/10.1007/s10096-019-03721-w>

- Lohner, S., Jakobik, V., Mihályi, K., Soldi, S., Vasileiadis, S., Theis, S., Sailer, M., Sieland, C., Berényi, K., Boehm, G., Decsi, T., 2018. Inulin-Type Fructan Supplementation of 3- to 6-Year-Old Children Is Associated with Higher Fecal *Bifidobacterium* Concentrations and Fewer Febrile Episodes Requiring Medical Attention. *The Journal of Nutrition* 148, 1300–1308. <https://doi.org/10.1093/jn/nxy120>
- Ma, W., Nguyen, L.H., Song, M., Wang, D.D., Franzosa, E.A., Cao, Y., Joshi, A., Drew, D.A., Mehta, R., Ivey, K.L., Strate, L.L., Giovannucci, E.L., Izard, J., Garrett, W., Rimm, E.B., Huttenhower, C., Chan, A.T., 2021. Dietary fiber intake, the gut microbiome, and chronic systemic inflammation in a cohort of adult men. *Genome Med* 13, 102. <https://doi.org/10.1186/s13073-021-00921-y>
- Manggala, A.K., Kenwa, K.W.M., Kenwa, M.M.L., Sakti, A.A.G.D.P.J., Sawitri, A.A.S., 2018. Risk factors of stunting in children aged 24–59 months. PI 58, 205–12. <https://doi.org/10.14238/pi58.5.2018.205-12>
- Nathasya, N., Amalia, R., Ulfah, A., 2020. Analisis Kandungan Serat dan Uji Hedonik pada Produk Snack Bar Tepung Beras Merah (*Oryza Nivara L.*). *Journal of Holistic and Health Sciences* 4, 129–136. <https://doi.org/10.51873/jhhs.v4i2.85>
- Nurhidayah, B., Soekendarsi, E., Erviani, A.E., 2019. Kandungan Kolagen Sisik Ikan Bandeng *Chanos-chanos* dan Sisik Ikan Nila *Oreochromis niloticus*. *Bioma* 4, 39–47. <https://doi.org/10.20956/bioma.v4i1.6341>
- Pinto, A., Barbosa, J., Albano, H., Isidro, J., Teixeira, P., 2020. Screening of Bacteriocinogenic Lactic Acid Bacteria and Their Characterization as Potential Probiotics. *Microorganisms* 8, 393. <https://doi.org/10.3390/microorganisms8030393>
- Plaza-Diaz, J., Ruiz-Ojeda, F.J., Gil-Campos, M., Gil, A., 2019. Mechanisms of Action of Probiotics. *Advances in Nutrition* 10, S49–S66. <https://doi.org/10.1093/advances/nmy063>
- Pratama, B., Angraini, D.I., Nisa, K., 2019. Penyebab Langsung (Immediate Cause) yang Mempengaruhi Kejadian Stunting pada Anak 10, 5.
- Purnama, R.C., Winahyu, D.A., Sari, D.S., 2019. Analisis Kadar Protein Pada Tepung Kulit Pisang Kepok. *Jurnal Analis Farmasi* 4, 77–83.
- Purnamasari, N.A., 2019. Pengaruh Modifikasi Makanan Pokok Terhadap Daya Terima Balita di Taman Penitipan Anak (TPA) Cinta Kota Palangkaraya. Politeknik Kesehatan Kemenkes Palangkaraya, Palangkaraya.
- Restuono, J., Indriani, F.C., Rahajeng, W., 2020. Keragaan Hasil dan Karakter Umbi Ubi Jalar Lokal Asal Dataran Rendah Provinsi Papua. *BPN* 26, 135. <https://doi.org/10.21082/blpn.v26n2.2020.p135-144>

- Retnowati, D.S., Kumoro, A.C., Ratnawati, R., 2018. Physical, thermal and functional properties of flour derived from Ubi Gembili (*Dioscorea esculenta L.*) tubers grown in Indonesia. *Potr. S. J. F. Sci.* 12, 539–545. <https://doi.org/10.5219/937>
- Rifityan, E., Pato, U., Ayu, D.F., Rossi, E., 2021. Potency of Prebiotics to Prevent COVID-19 Transmission Through The Increase of Human Immunity. *Agricultural Science and Technology* 11.
- Roberfroid, M.B., 2001. Prebiotics: preferential substrates for specific germs? *The American Journal of Clinical Nutrition* 73, 406s–409s. <https://doi.org/10.1093/ajcn/73.2.406s>
- Rochmawati, N., 2019. Pemanfaatan Kulit Buah Naga Merah (*Hylocereus polyrhizus*) Sebagai Tepung Untuk Pembuatan Cookies. *JPA* 7, 19–24. <https://doi.org/10.21776/ub.jpa.2019.007.03.3>
- Sabda, M., Wulanningtyas, H.S., Ondikeleuw, M., Baliadi, Y., 2019. Characterization of Potential Local Gembili (*Dioscorea esculenta L*) from Papua as Alternative of Staple Food. *BPN* 25, 25. <https://doi.org/10.21082/blpn.v25n1.2019.p25-32>
- Saidi, R.M., 2019. Karakteristik Nugget Pindang Ikan Tongkol-Ampas Tahu dengan Substitusi Tepung Gembili (*Dioscorea esculenta*) sebagai Sumber Inulin 95.
- Sanders, M.E., Merenstein, D.J., Reid, G., Gibson, G.R., Rastall, R.A., 2019. Probiotics and prebiotics in intestinal health and disease: from biology to the clinic. *Nat Rev Gastroenterol Hepatol* 16, 605–616. <https://doi.org/10.1038/s41575-019-0173-3>
- Schmid, S., Hugel, T., 2020. Controlling protein function by fine-tuning conformational flexibility. *eLife* 9, e57180. <https://doi.org/10.7554/eLife.57180>
- Sepriyani, H., Devitria, R., 2018. Uji Organoleptik Tepung dari Kulit Durian. *Jurnal Analis Kesehatan Klinikal Sains* 6, 54–59.
- Setiarto, R.H.B., Widhyastuti, N., Saskiawan, I., Safitri, R.M., 2017. Fermentasi Oleh *Lactobacillus acidophilus*, *Lactobacillus bulgaricus* dan *Streptococcus thermophilus* 17.
- Simanjuntak, S., Purwokusumaning Daru, T., Safitri, A., Silaban, R., 2021. The Addition Effectiveness of Sweat Potato Prebiotics on Digestibility and Bacteria In Vitro. *JCA* 1, 18–26. <https://doi.org/10.52045/jca.v1i2.47>
- Sofyan, S., Maesaroh, E., Windyaningrum, R., Mahardhika, B.P., 2020. Perbandingan Metode Analisis Lemak Kasar Metode Soxhlet Terpisah dan

- Metode Soxhlet Dalam Satu Ekstraktor Pada Beberapa Bahan Pangan. Temapela 3, 60–64. <https://doi.org/10.25077/temapela.3.2.60-64.2020>
- Sundari, E., Desfitri, E.R., Martynis, M., Praputri, E., 2014. Identifikasi dan Kondisi Ekstrak Inulin Umbi Gembili dari Umbi Dahlia di Sumatra Barat 6.
- Sundari, E., Nuryanto, 2016. Hubungan Asupan Protein, Seng, Zat Besi, dan Riwayat Penyakit Infeksi dengan Z-score TB/U pada Balita 10.
- Surono, I.S., Widiyanti, D., Kusumo, P.D., Venema, K., 2021. Gut microbiota profile of Indonesian stunted children and children with normal nutritional status _ Enhanced Reader.pdf.
- Susilawati, S., Nurdjanah, S., Putri, S., 2008. Karakteristik Sifat Fisik dan Kimia Ubi Kayu (*Manihot esculenta*) Berdasarkan Lokasi Penanaman dan Umur Panen Berbeda. Jurnal Teknologi Industri dan Hasil Pertanian 13, 59–72. <http://dx.doi.org/10.23960/jtihp.v13i2.59%20-%2072>
- Taus, A.L., Tahuk, P.K., Kia, K.W., 2022. The Effect Use of Different Binding Materials on Water Holding Capacity, Water Content and Crude Fiber Content of Chicken Nuggets. J. Trop. Anim.Sci.Technology 4, 74–81. <https://doi.org/10.32938/jtast.v4i1.1330>
- Teferra, T.F., 2021. Possible actions of inulin as prebiotic polysaccharide: A review. Food Frontiers fft2.92. <https://doi.org/10.1002/fft2.92>
- Titaley, C.R., Ariawan, I., Hapsari, D., Muasyaroh, A., Dibley, M.J., 2019. Determinants of the Stunting of Children Under Two Years Old in Indonesia: A Multilevel Analysis of the 2013 Indonesia Basic Health Survey. Nutrients 11, 1106. <https://doi.org/10.3390/nu11051106>
- Triastuti, U.Y., Priyanti, E., Diana, T.R., 2018. Krekers Tepung Jantung Pisang Sebagai Usaha Diversifikasi Pangan Berbasis Sumber Daya Lokal. HEJ (Home Economics Journal) 1, 1–4.
- Vonaesch, P., Morien, E., Andrianonimiadana, L., Sanke, H., Mbecko, J.-R., Huus, K.E., Naharimanananirina, T., Gondje, B.P., Nigmatoloum, S.N., Vondo, S.S., Kaleb Kandou, J.E., Randremanana, R., Rakotondrainipiana, M., Mazel, F., Djorie, S.G., Gody, J.-C., Finlay, B.B., Rubbo, P.-A., Wegener Parfrey, L., Collard, J.-M., Sansonetti, P.J., The Afribiota Investigators, 2018. Stunted childhood growth is associated with decompartmentalization of the gastrointestinal tract and overgrowth of oropharyngeal taxa. Proc Natl Acad Sci USA 115, E8489–E8498. <https://doi.org/10.1073/pnas.1806573115>
- Waluyo, W., Permadi, A., Fanni, N.A., Soedrijanto, A., 2019. Analisis Kualitas Rumput Laut *Gracilaria verrucosa* di Tambak Kabupaten Karawang, Jawa Barat. Grouper 10, 32. <https://doi.org/10.30736/grouper.v10i1.50>

- Wan, X., Guo, H., Liang, Y., Zhou, C., Liu, Z., Li, K., Niu, F., Zhai, X., Wang, L., 2020. The physiological functions and pharmaceutical applications of inulin: A review. *Carbohydrate Polymers* 246, 116589. <https://doi.org/10.1016/j.carbpol.2020.116589>
- Wang, H., Wei, C.-X., Min, L., Zhu, L.-Y., 2018. Good or bad: gut bacteria in human health and diseases. *Biotechnology & Biotechnological Equipment* 32, 1075–1080. <https://doi.org/10.1080/13102818.2018.1481350>
- World Health Organization, 2021. Stunting prevalence among children under 5 years of age.
- Widodo, S., Hudiah, A., 2020. Daya Terima Biskuit Dengan Penambahan Pure Tempe 3, 6.
- Wihenti, A., Setiani, B.E., Hintono, A., 2017. Analisis Kadar Air, Tebal, Berat, dan Tekstur Biskuit Cokelat Akibat Perbedaan Transfer Panas. *JATP* 6. <https://doi.org/10.17728/jatp.186>
- Winarti, S., 2013. Karakteristik Tepung Prebiotik Umbi Uwi (*Dioscorea* spp) 8, 5.
- Winarti, S., Harmayani, E., Nurismanto, R., 2011a. Karakteristik dan Profil Beberapa Jenis Uwi (*Dioscorea* spp.) 31, 6.
- Winarti, S., Harmayani, E., Nurismanto, R., 2011b. Karakteristik dan Profil Beberapa Jenis Uwi (*Dioscorea* spp.) 31, 6.
- Winayu, A.K., Khanifah, F., Dewi, R.S., 2020. Analysis of Carbohydratic levels in Yellow and Purple Sweet Potatoes (*Ipomoea batatas* L) as Food Alternatives for Diabetes Mellitus. *Sekolah Tinggi Ilmu Kesehatan Insan Cendikia Medika, Jombang*.
- Wong, R., Kim, S., Chung, S.-J., Cho, M.-S., 2020. Texture Preferences of Chinese, Korean and US Consumers: A Case Study with Apple and Pear Dried Fruits. *Foods* 9, 377. <https://doi.org/10.3390/foods9030377>
- World Health Organization, 2019. Nutrition Landscape Information System (NLiS) country profile indicators: interpretation guide, 2nd ed. ed. World Health Organization, Geneva.
- Yulinery, T., Hardiningsih, R., Nurhidayat, N., 2010. Pengaruh Pemberian Angkak *Monascus purpureus* terhadap Kualitas Mikrobiologis Feses Tikus Putih Hiperlipidemia.
- Yusfiani, M., Diana, A., Harahap, M., Syakura, A., 2021. Studi Marinasi Udang Kecap Asin : Uji Hedonik. *pangan* 6, 35–41. <https://doi.org/10.31970/pangan.v6i1.48>