

## DAFTAR PUSTAKA

- Abbaspour, N., Hurrel, R. and Kelishadi, R. (2014). Review on Iron and Its Importance for Human Health. *Journal of Research in Medical Science* 19(2): 164–74.
- Adinugraha, H., Adma and Kartikawati, N. K. (2012). Variasi Morfologi Dan Kandungan Gizi Buah Sukun. *Wana Benih* 13(2): 99–106.
- Agar, N. S. and Lewis, G. B. H. (1980). Effect of Halothane and Enflurane Anaesthesia on the Level of Reduced Gluthatione in Human Red Blood Cells. *Journal of Anaesthesia Intensive Care* 8: 356–58.
- Aji, D. (2000). Perbandingan Efek Anestetika Nembutal dan Kombinasi Silazin-Nembutal Terhadap Kadar Glutation Reduktase Pada Anjing. *J Sain Vet* 17(2): 18–23.
- Alakomi, H.L., Skyita, E., Saarela, M., and Sandholm, T M. (2005). Lactic Acid Permeabilizes Gram-Negative Bacteria by Disrupting the Outer Membrane. *Applied and Environmental Microbiology* 66(5): 2001–5.
- Allen, Lindsay, Bruno De Benoist, Omar Dary, and Richard Hurrell. 2006. *Guidelines on Food Fortification with Micronutrients*. Geneva: World Health Organization.
- Astawan, M., Wresdiyati, T., and Hartanta, A. B. (2005). The Utilization of Seaweed as a Source of Dietary Fiber to Decrease the Serum Cholesterol in Rats. *Journal of Biosciences* 12(1): 23–27. [http://dx.doi.org/10.1016/S1978-3019\(16\)30319-9](http://dx.doi.org/10.1016/S1978-3019(16)30319-9).
- Astawan, M., Wresdiyati, T., Hartanta, A.B. (2011). Gambaran Hematologi Tikus Putih (*Rattus Norvegicus*) Yang Diinfeksi *Escherichia Coli* Enteropatogenik Dan Diberikan Probiotik. *Media Peternakan* 34(1): 7–13.
- Astuti, T., Ekawati, L., Purwijantiningih, and Pranata, S. (2013). Substitusi Tepung Sukun Dalam Pembuatan Non Flaky Crakers Bayam Hijau. *Jurnal Agros*: 1–13.
- Aulia, S. S., Ninik, R., and Fitranti, D. Y. (2017). Fortifikasi Nafeedta Pada Cookies Ubi Jalar Kuning. *J. Gizi Pangan* 12(November): 161–68.
- Badan Litbangkes. (2007). *Pedoman Operasional Komisi Etik Penelitian*

- Kesehatan (PO KEPK)*. Jakarta: Departemen Kesehatan Republik Indonesia.
- Brandtzaeg, P. (2013). Secretary IgA : Designed for Anti-Microbial Defense. *Front Immunol* 4: 1–17.
- Cheung, Y.B., Xu, Y., Mangani, C., Fan, Y., Dewey, K.G., and Salminen, S.J. (2016). Gut Microbiota in Malawian Infants in a Nutritional Supplementation Trial. *Tropical Medicine and International Health* 21(2): 283–90.
- Citrakesumasari. (2012). *Anemia Gizi, Masalah Dan Pencegahannya*. Yogyakarta: Kalika.
- Coleman, M. (2012). Iron Metabolism. In *Hematology: Clinical Orinciples and Applications*, St Louis: Elsevier, 126–33.
- Coussement, P. (1999). Nutritional and Health Benefits of Inulin and Oligofructose: Safe Intakes and Legal Status. *The Journal of Nutrition* 129: 1412S–1417S.
- Darlan, A. (2012). Fortifikasi Dan Ketersediaan Zat Besi Pada Bahan Pangan Berbasis Kedelai Dengan Menggunakan Fortifikan  $\text{FeSO}_4 \cdot 7 \text{H}_2\text{O}$  Campuran  $\text{FeSO}_4 \cdot 7 \text{H}_2\text{O} + \text{Na}_2\text{H}_2\text{EDTA} \cdot 2\text{H}_2\text{O}$  Dan  $\text{NaFeEDTA}$ . Universitas Indonesia.
- Dary, O. (2002). Staple Food Fortification with Iron : A Multifactorial Decision. *Nutrition Reviews* 60(7): 34–41.
- Djafar, T. F., and Rahayu, S. (2005). Pemanfaatan Sukun Sebagai Bahan Pangan Alternatif. *Jurnal Agros* 6(2): 133–41.
- Eroschencko, V. P. (2008). *diFiore ATLAS of Histology with Functional Correlations*. 11th ed. eds. Didik Dharmawan and Nella Yesdelita. Jakarta: Penerbit Buku Kedokteran EGC.
- Fajriyah, N. N., and Fitriyanto, M. L. H. (2016). Jurnal Ilmu Kesehatan (JIK) Vol IX No 1, Maret 2016 ISSN 1978-3167. *Jurnal Ilmu Kesehatan* IX(1): 1–6.
- Fanani, A., Shutama, and Sukamto. (2014). Retensi Nitrogen Dan Konversi Pakan Ayam Lokal Persilangan Yang Diberi Ekstrak Umbi Dahlia (*Dahlia Variabilis*) Sebagai Sumber Inulin. *Jurnal Sains Peternakan* 12(2): 35–37.
- FDA. (2016). *GRAS Notification for Fructooligosaccharides*. Amerika Serikat: FDA.

- Ferawati. (2009). Formulasi Dan Pembuatan Banana Bars Berbahan Dasar Tepung Kedelai, Terigu, Singkong Dan Pisang Sebagai Alternatif Pangan Darurat. *Jurnal Teknologi Pangan* 2(1): 67–78.
- Fitria, L., and Sarto, M. (2014). Profil Hematologi Tikus (*Rattus Norvegicus* Berkenhout, 1769) Galur Wistar Jantan Dan Betina Umur 4, 6, Dan 8 Minggu. *Biogenesis* 2(2): 94–100.
- Fooks, L.J., Fuller, R., and Gibson, G. R. (1999). Prebiotics, Probiotics and Human Gut Microbiology. *Probiotica* 9: 2–7.
- Geboes, K. (2003). Histopathology of Crohn’s Disease and Ulcerative Colitis. *Journal of Pathology* 18: 255–76.
- Gibson, G.R., and Roberfroid, M.B. 2008. *Handbook of Prebiotics*. 1st ed. London, UK: CRC Press.
- Gibson, G.R. (2004). From Probiotics to Prebiotics Food Microbiology and Safety. *Journal of Food Science* 69(5): 141–43.
- Gozalli, M., Nurhayati, and Nafi, A. (2015). Karakteristik Tepung Kedelai Dari Jenis Impor Dan Lokal (Varietas Anjasmoro Dan Baluran) Dengan Perlakuan Perebusan Dan Tanpa Perebusan. *Jurnal Agroteknologi* 9(2): 191–200.
- Guha, D.K., Walia, B.N.S., Tandon, B.N., and Deo, M.G. (1968). Small Bowel Changes in Iron-Deficiency Anaemia of Childhood. *Arch.Dis.Childh* 43: 239–44.
- Gulec, S., Anderson, G. J., and Collins, J. F. (2019). Mechanistic and Regulatory Aspects of Intestinal Iron Absorption. *Am J Physiol Gastrointest Liver Physiol* 2(307): G397–409.
- Henwood, A. (2010). Microscopic Quality Control of Haematoxylin and Eosin – Know Your Histology. *Connection* 14: 115–20.
- Hosono, A., Ozawa, A., Kato, R., Ohnishi, Y., Nakanishi, Y., and Kimura, T. (2003). Dietary Fructooligosaccharides Induce Immunoregulation of Intestinal IgA Secretion by Murine Peyer Patch Cells. *Biosci. Biotechnol. Biochem* 67(4): 758–64.
- Hurrell, R. F. (2002). Fortification : Overcoming Technical and Practical Barriers. *J. Nutr* 1(1): 806–12.

- Isbagio, D. W. (1992). Euthanasia Pada Hewan Percobaan. *Media Litbangkes* 2(1): 18–24.
- Jaeggi, T., Kortman, G.A.M., Moretti, D., Chassard, C., Holding, P., and Dostal, A (2015). Iron Fortification Adversely Affects the Gut Microbiome, Increases Pathogen Abundance and Induces Intestinal Inflammation in Kenyan Infants. *Gut* 64(73): 731–42.
- Kasi, M., and Bowling, T. (2014). Anaemia in Gastroenterology. *Medicine* 43(3): 153–56. <http://dx.doi.org/10.1016/j.mpmed.2014.12.008>.
- Kemenkes RI. 2013. *RISET KESEHATAN DASAR 2013*. Jakarta.
- Kortman, G.A.M., Boleij, A., Swinkels, D.W., and Tjalsma, H. (2012). Iron Availability Increases the Pathogenic Potential of Salmonella Typhimurium and Other Enteric Pathogens at the Intestinal Epithelial Interface. *PLoS ONE* 7(1): 1–7.
- Kusuma, S. (2013). Potensi Yogoat (Yoghurt Susu Kambing) Dalam Perbaikan Jumlah Intraepithelial Lymphocyte (IEL) Dan Kripta Vili Pada Tikus Malnutrisi Energi-Protein: Kajian Histologi Usus Halus. Universitas Gadjah Mada.
- Lan, P.T.N., Sakamoto, M., Benno, Y. (2004). Effects of Two Probiotic Lactobacillus Strains on Jejunal and Cecal Microbiota of Broiler Chicken under Acute Heat Stress Condition as Revealed by Molecular Analysis of 16S rRNA Genes. *Microbiol. Immunol* 48(12): 917–29.
- Lee, J.H., and Shinohara, S. (2001). Reaction Route for Enzymatic Production of Neofructo-Oligosaccharides from Sucrose Using Penicillium Citrinum Cells. *The Journal of Microbiology* 39(4): 331–33.
- Li, Y., Hansen, S.L., Borst, L.B., Spears, J.W., and Moeser, A.J. (2016). Dietary Iron Deficiency and Oversupplementation Increase Intestinal Permeability, Ion Transport, and Inflammation in Pigs. *J Nutr* 146: 1499–1505.
- Manley, D. 2000. *Technology of Biscuits, Crackers, and Cookies*. ed. 3. Cambridge, UK: Woodhead Publishing Limited.
- Muntiha, M. (2001). Teknik Pembuatan Preparat Histopatologi Dari Jaringan Hewan Dengan Pewarnaan Hematoksilin Dan Eosin (H&E). In *Temu Teknis*

*Fungsional Non Peneliti*, , 156–63.

Muryanti, S. 2009. *Kue Kering*. Yogyakarta: Venus.

Naruki, S., Astuti, M., Marsono, Y., and Raharjo, S. (2010). Evaluasi Potensi Kecap Manis Sebagai Pembawa Fortifikan NaFeEDTA: Tinjauan Pengaruh Asupan Kecap Kedelai Manis Hasil Fortifikasi Terhadap Peningkatan Bioavailabilitas Zat Besi Fortifikan. *Agritech* 30(3): 192–98.

Nascimento, J. E. A., Silva, L.R.F., Oliveira, A.F., and Silva, M.H.G. (1999). Enhanced Mucosal Re-Epithelialization Induced by Short Chain Fatty Acids in Experimental Colitis. *Brazilian Journal of Medical and Biological Research* 32: 961–66.

Nuraida, L., Palupi, N.S., Putri, D.E., and Widayanti, N.W.Y. (2006). Potensi Talas (*Colocasia Esculenta* Schott) dan Sukun (*Artocarpus Altilis* (Park) Fosberg) untuk Mendukung Pertumbuhan Bakteri Asam Laktat Probiotik. In *Prosiding Mikrobiologi Dan Bioteknologi*, Yogya, 19–28.

Nurhamidah, E. (2014). “Pengaruh Pemberian Ekstrak Ubi Jalar Ungu (*Ipomoea Batatas* Poiret) Terhadap Kadar Glukosa Darah, Kadar Immunoglobulin A (Iga) Dan Villi Usus Pada Tikus Putih Jantan (*Rattus Norvegicus*) Diabetes Mellitus. *Scientia* 4(1): 22–28.

Nurhayati, Novijanto, N., Yulianti, F. 2016. “Karakteristik Sensori Dan Kesesuaian Atribut Mutu Cookies Kedelai-Pisang Sebagai Pangan Darurat.” In *Prosiding Seminar Hasil Penelitian Tanaman Aneka Kacang Dan Umbu*, , 678–84.

Paturi, G., Butts, C.A., Hedderley, D., Stoklosinski, H., Martell, S., and Dinnan, H. (2018). Food Bioscience Goat and Cow Milk Powder-Based Diets with or without Prebiotics in F1 Uence Gut Microbial Populations and Fermentation Products in Newly Weaned Rats. *Food Bioscience* 24(July 2017): 73–79. <https://doi.org/10.1016/j.fbio.2018.06.001>.

Paul, S.K., Halder, Mondal, M.K., and Samanta, G. (2007). Effect of Organic Acid Salt on the Performance and Gut Health of Broiler Chicken. *J. Poult. Sci.* 44: 389–95.

Permaesih, D., and Herman, S. (2005). FAKTOR-FAKTOR YANG

MEMPENGARUHI ANEMIA PADA REMAJA. *Bul.Penel.Kesehatan* 33(4): 162–71.

Prameswari, O.M., Widjanarko, S.B., (2014). Uji Efek Ekstrak Air Daun Pandan Wangi Terhadap Penurunan Kadar Glukosa Darah Dan Histopatologi Tikus Diabetes Mellitus. *Jurnal Pangan dan Agroindustri* 2(2): 16–27.

Pratiwi, D. P., Sulaeman, A., and Amalia, L. (2012). Pembuatan Aneka Kudapan Sebagai Alternatif Makanan Bergizi untuk Pmt-As. *Jurnal Gizi dan Pangan* 7(November): 175–80.

Rani, H., Zulfahmi, and Widodo, Y.R. (2013). Optimasi Proses Pembuatan Bubuk ( Tepung ) Kedelai. *Jurnal Penelitian Pertanian Terapan* 13(3): 188–96.

Rao, V. (2001). The Prebiotic Properties of Oligofructose at Low Intake Levels. *Nutrition Research* 21: 843–48.

Reeves, P.G., Nielsen, F.H., and Fahey, G.C. (1993). Committee Report AIN-93 Purified Diets for Laboratory Rodents: Final Report of the American Institute of Nutrition Ad Hoc Writing Committee on the Reformulation of the AIN-76A Rodent Diet. *J. Nutr.* 123: 1939–51.

Ridwan, E. (2013). Etika Pemanfaatan Hewan Percobaan Dalam Penelitian Kesehatan. *J Indon Med Assoc* 3(63): 112–16.

Roberfroid, M. B. (2000). Prebiotics and Probiotics : Are They Functional Foods ? *Am J Clin Nutr* 71(suppl): 1682–87.

Rukmana, R., and Yuniarsih, Y. (2001). *Kedelai Budidaya Dan Pasca Panen*. Yogyakarta: Kanisius.

Salminen, S., Benno, Y., and Vos, W. (2009). Intestinal Colonization, Microbiota and Future Prebiotics? *Asia Pac J Clin Nutr* 15(4): 558–62.

Salovaara, S., Sandberg, A.S., and Andlid, T. (2003). Combined Impact of pH and Organic Acids on Iron Uptake by Caco-2 Cells. *Journal of Agricultural and Food Chemistry* 51: 7820–24.

Sandikci, M., Eren, U., Onol, A.G., Kum, S. (2004). The Effect of Heat Stress and the Use of Saccharomyces Cerevisiae or ( and ) Bacitracin Zinc against Heat Stress on the Intestinal Mucosa in Quails. *Revue Med Vet* 155(11): 552–56.

Sari, H.P., Agustia, F.C., Subardjo, Y.P., and Ramadhan, G.R. (2018). Biskuit

- Mocaf – Garut Tinggi Zat Besi Meningkatkan Kadar Fe Darah Dan Kadar Hemoglobin Pada Tikus Sprague Dawley. *The Indonesian Journal of Nutrition* 7(1): 49–53.
- Sartika, R. S., Kalangi, S.J.R., Wongkar, D. (2018). Perubahan Histologik Postmortem Pada Kelenjar Brunner Hewan Coba. *Jurnal e-Biomedik* 6(1): 1–5.
- Sarwanto, TA. 2008. *Kedelai*. Jakarta: Penebar Swadaya.
- Scheifele, D., Bjornson, G., Dimmick, A. (1987). Rapid Postmortem Gut Autolysis in Infant Rats: A Potential Problem for Investigators. *Can J Vet Res* 51: 404–6.
- Scholz-ahrens, K., Schaafsma, G., and Heuval, H.E.G.M., Shrezenmer, J. (2001). Effects of Prebiotics on Mineral Metabolism. *American Journal of Clinical Nutrition* 73: 459S–64S.
- Soekirman, Martianto, D., and Airesa, K. (2015). *Fortifikasi Pangan Strategi Global Penanggulangan Kurang Zat Gizi Mikro*. Jakarta: Yayasan Kegizian untuk Pengembangan Fortifikasi Pangan Indonesia.
- Sridevi, V., Sumathi, V., Prasad, M. G., and Murari, S.K. (2014). Fructooligosaccharides - Type Prebiotic : A Review.” *Journal of Pharmacy Research* 8(3): 321–30.
- Sunarno, Goeltoem, R.J., and Mardianti, S.M. (2016). Feed Applications With Rich Nutrition Supplementation Meat Fish Cork (*Channa Striata*) Improvement In The Structure And Role Duodenum: In Vivo Study In Rats Wistar Given The Treatment Of Stress. *Bioma* 5(1): 43–60.
- Suryono, I. A., Damayanti, L., and Wonodirekso, S. (2012). *Buku Ajar Berwarna Histologi*. 3rd ed. China: Elsevier.
- Swanson, K.S., Grieshop, C.M., Flickinger, E.A., Bauer, L.L., Healy, H., Dawson, K.A. (2002). Supplemental Fructooligosaccharides and Mannanligosaccharides Influence Immune Function , Ileal and Total Tract Nutrient Digestibilities , Microbial Populations and Concentrations of Protein Catabolites in the Large Bowel of Dogs. *J Nutr* 132: 980–89.
- Tako, E., Glahn, R., Welch, R., Lei, X., Yasuda, K., and Miller, D. (2008).

- Dietary Inulin Affects the Expression of Intestinal Enterocyte Itron Transporters, Receptors and Storage Protein and Alters the Microbiota in the Pig Intestine. *The British Journal of Nutrition* 99: 472–80.
- Theodore, V.J., Wangko, S., Kalangi, S.J.R. (2017). Gambaran Histologik Usus Halus Pada Hewan Coba Selama 24 Jam Postmortem. *Jurnal e-Biomedik* 5(1): 1–5.
- Thomas, C. M., and Versalovic, J. (2010). Probiotics Host-Communication: Modulation of Signaling Pathways in The Intestine. *Gut Microbes* 1(3): 1–16.
- Untari, E.K., Wahdaningsih, S., Damayanti, A. (2014). Efek Fraksi N-Heksana Kulit *Hylocereus Polyrhizus* Terhadap Aktivitas Katalase Tikus Stres Oksidatif. *Pharm Sci Res* 1(3): 141–53.
- Warchol, M., Perrin, S., Grill, J., and Schneider, F. (2002). Characterization of a Purified B -Fructofuranosidase from *Bifidobacterium Infantis* ATCC 15697. *Letters in Applied Microbiology* 35: 462–67.
- Waryat, Yanis, M., and Handayani, Y. (2014). Diversifikasi Pangan Dari Tepung Sukun Untuk Mengurangi Konsumsi Tepung Terigu Di Kepulauan Seribu, Provinsi DKI Jakarta. *Buletin Pertanian Perkotaan* 4(1): 13–19.
- Weiss, G. (2015). Dietary Iron Supplementation: A Proinflammatory Attack on the Intestine? *Gut* 64(5): 696–97.
- WHO. (2004). *Food and Agricultural Organization of The United Nation. Vitamin and Mineral Requirements in Human Nutrition. Second Edition*. Geneva: World Health Organization.
- WHO. (2006). *Guidelines on Food Fortifications with Micronutrients*. California.W. 2015. *The Global Prevalence of Anaemia in 2011*. Geneva.
- Widodo, T. S., Sulistiyanto, and Utama, C.S. (2015). Jumlah Bakteri Asam Laktat (Bal) Dalam Digesta Usus Halus Dan Sekum Ayam Broiler Yang Diberi Pakan Ceceran Pabrik Pakan Yang Difermentasi. *AGRIPET* 15(2): 98–103.
- Widowati, S. (2009). Prospek Sukun ( *Artocarpus Communis* ) Sebagai Pangan Sumber Karbohidrat Dalam Mendukung Diversifikasi Konsumsi Pangan. *Pangan* 18(56): 67–75.

- Xie, S., Liu, B., Ye, H., Li, Q., Pan, L., and Zha, X. (2019). Dendrobium Huoshanense Polysaccharide Regionally Regulates Intestinal Mucosal Barrier Function and Intestinal Microbiota in Mice. *Carbohydrate Polymers* 206(July 2018): 149–62. <https://doi.org/10.1016/j.carbpol.2018.11.002>.
- Xu, Z.R., Hu, C.H., Xia, M.S., Zhan, X.A., and Wang, M.Q. (2003). Effects of Dietary Fructooligosaccharide on Digestive Enzyme Activities , Intestinal Microflora and Morphology of Male Broilers. *Poultry Science* 82: 1030–36.
- Xue, Z., Yu, J., Zhao, M., Kang, W., and Ma, Z. (2017). Effects of Synbiotics on Intestinal Mucosal Barrier in Rat Model. *Clinical Nutrition Experimental* 13: 12–21. <http://dx.doi.org/10.1016/j.yclnex.2017.02.001>.
- Yatim, F. 2003. *Talasemia, Leukimia, Dan Anemia*. Jakarta: Putaka Populer Obor.
- Yeung, C.K., Glahn, R.P., Welch, R.M., and Miller, D.D. (2005). Prebiotics and Iron Bioavailability — Is There a Connection? *Journal of Food Science* 70(5): 88–92.
- Zimmermann, M.B., Chassard, C., Rohner, F., Goran, K.N., Nindjin, C., and Dostal, A. (2010). The Effects of Iron Fortification on the Gut Microbiota in African Children : A Randomized Controlled Trial in Cote d’Ivoire. *Am J Clin Nutr* 92: 1406–15.