

## Daftar Pustaka

- Abd El-Baky, H. H., F. K. El-Baz and G. S. El-Baroty, 2007. Enhancement of Antioxidant Production in *Spirulina platensis* Under Oxidative Stress. *American Eurasian. Diabetes research and clinical practice journal*.2: 170-179.
- Amanda, F. 2018. Profil dan Diferensiasi Leukosit Tikus Putih (*Rattus norvegicus*) Galur Sprague Dawley Model Hiperglikemia Melalui Pemberian Deksametason. *Skripsi Fakultas Kedokteran Hewan Institut Pertanian Bogor*. Indonesia.
- Akbarzadeh, A. D., Norouzian, M. R., Mehrabi, S., Jamshidi, A., Farhangi, A., Verdi, S. M. A., Mofidian, and B. Lame Rad. 2007. Induction of Diabetes by Streptozotocin in Rats. *Indian Journal of Clinical Biochemistry*, 22 (2): 60- 64.
- Almaida, P., 2015. Health Education in the Management of Diabetes at the Primary Health Care Level: is there a Gender Differens?. *Eastern Mediteranean Health Journal*, 8(1): 1823 [<http://search.proquest.com>] diakses pada tanggal 20 agustus 2018
- Amin, A., Lotfy, M., Ghoneim, M. D., Adeghate, E., Al-akhras, A. M., Al-saadi, M., Al-rahmoun, S., and Hameed, R., 2011. Pancreas Protective Effect of Chlorella in STZ Induced Diabetic Animal Model : Insights Into the Mechanism. *Journal of Diabetes Mellitus*. (1) : 37.
- Atkinson, F. S., K. Foster - Powell, and Brand, M. J. C., 2008. International Tables of Glycemic Index and Glycemic Load Values: 2008. *Diabetes Care*. 31:2281 – 2283.
- Arya, K. A., Pokharia, and D., Tripathi, K., 2011. Relationship Between Oxidative Stress and Apoptotic Markers in Lymphocytes of Diabetic Patients with Chronic non Healing Wound. *Diabetes research and clinical practice journal*. (94). p: 379, 383
- Bailey, C. J., 2017. Metformin: Historical Overview. *Diabetologia Journal*; 60: 1566 – 1576.
- Cheng, J. Y and Shih, M. F., 2005. Potential Hypoglycemic Effects of Chlorella in Streptozotocin Induced Diabetic Mice. *Life Science Journal*. 77: 980 - 990.
- Darwin, P., 2013. *Menikmati Gula Tanpa Rasa Takut*. Perpustakaan Nasional: Sinar Ilmu, Jakarta. p: 129.
- Departemen Kesehatan Republik Indonesia (DEPKES RI). 2005. *Pharmaceutical Care untuk Penyakit Diabetes Mellitus*. Direktorat Jenderal Bina Kefarmasian dan Alat Kesehatan Departemen Kesehatan RI. p. 1- 89.
- Deng, R., and Chow, T. 2010. Hypolipidemic, Antioxidant and Antiinflammatory Activities of Microalgae *Spirulina*. *National Institutes of Health Journal Kingstone*. 28 (4) p: 3 - 4.
- Elmore, S. A, 2007. *Apoptosis : a Review of Programmed Cell Death*. Toxicology Pathology. 35: 495 - 516.
- Eroschenko, V. P., 2013. *diFiore`s Atlas of Histology with Functional Correlations*. Lippinchot Williams & Wilkins. United State of America. p: 256.

- Farag, M. R., Alagawany, M., Abdul, and M. E., Dhama, K., 2016. Review Article Nutritional and Healthical Aspect of Spirulina (Arthrospira) for Poultry, Animal and Human. *International Journal of Pharmacology*. 12 (1). P: 39.
- Frandsen, R., Lee, W., and Anna, D., 2009. *Anatomy and Physiology of Farm Animals*. 7th Edition. Blackwell. USA. 272 - 282.
- Fransond., R. D., 1992. *Anatomi dan Fisiologi ternak edisi ke 4*. Gadjah Mada Universiti Press. Yogyakarta. p: 225.
- Gershwin, M.E., and Belay, A., 2007. Spirulina in Human Nutrition and Health. CRC Press. United State of America. p: 2 - 4, 120.
- Giknis, M. L. A., and C. B. Clifford. 2008. *Clinical Laboratory Parameters for Clr: WI (Han)*. Charles River. Wilmingto, MA. p: 9
- Goud, Busineni J. V., Dwarakanath., Swamy, B. K., and Chikka., 2015. Streptozotocin Diabetogenic Agent in Animal Models. *International Journal of Pharmacy and Pharmaceutical Research*. Vol 3.
- Gufron, M. 2013. Nanoenkapsulasi Metformin Dengan Nanokitosan Sebagai Obat Antidiabetes Tipe II. *Skripsi Departemen Teknologi Hasil Perairan Fakultas Perikanan Dan Ilmu Kelautan Institut Pertanian Bogor*. Indonesia. P: 1
- Gupta, C. R., 2016. *Nutraceuticals: Efficacy, Safety and Toxicity*. Academic Press. Elvisier Science. United State of America. P: 570.
- Irawan, M. A., 2007. Glukosa dan Metabolisme Energi . Polton Sport Science & Perfomance Lab. *Diambil dari* <http://pplslab/journal/06.pdf>
- ITIS (Integrated taxonomic information system), 2015, *Taxonomic Hirarchy: Artocarpus Heterophyllus* Lam., [https://www.itis.gov/servlet/SingleRpt\\_searchtopic=TSN&search\\_value=180363#null](https://www.itis.gov/servlet/SingleRpt_searchtopic=TSN&search_value=180363#null), 30 September 2018.
- Jeong, H., Kwon, J. H., and Kim, K. M., 2009. Hypoglycemic Effect of Chlorella Vulgaris Intake in Type Diabetic Goto-Kakizaki and Normal Wistar Rats. *The Korean Nutrition Society and the Korean Society of Community Nutrition* 3(1). Korea. p: 25.
- Karpinski, S., H. Reynolds, B. Karpinska, G. Wingsle, G. Creissen and P. Mullineaux, 1999. *Systemic signaling and acclimation in response to excess excitation energy in Arabidopsis*. Science, p: 284: 654-657.
- Kelly, Evelyn B., 2006. *Obesity Healt and Medical Issues Today*. Greenwood Publishing Group. United State of Amerika. p: 5-6.
- Krinke, George J., 2000. *The Laboratory Rat Handbook of Experimental Animals*. Elsevier Academic Press. United Kingdom. p: 3 - 8.
- Kirvichnikov, D., Mc-Farlane, S. I., and Sowers, J. R., 2002. *Metformin An Update* Ann Intern Med.; 137: 25 - 33.
- Khan, Z., Bhadouria, P., and Bisen, P. S., 2005. Nutritional and Therapeutic Potential of Spirulina, *Current Pharmaceuatical Biotechnology*. (6): 373 - 379.
- Kolzov I. A., Novitski V. V., and Baikov A. N., Kinetics of Blood Leukocytes in Mice with Diabetes Alloxan. Leucocytes in Mice with Diabetes Alloxan. 1995. *Biulleten Eksprimental Biologi Meditsiny Journal*.; 120: 33 - 5.

- Kwatiningsih, S. I., 2012. Profil hematologis dan Struktur Histologis Lien tikus putih (*Rattus norvegicus* berkenhout, 1769) pada uji toksisitas oral alut ekstrak etanolik algae coklat (*Sargassum* spp.). *Skripsi Fakultas Biologi ugm*. Yogyakarta. p:14.
- Lee, Y., Yi, S. H., Kim, R. H., Joung, H. K., Kang, Y. E., Lee, H. J., Kim, S. K., Kim, J. H and Shong, M., 2017. The Eosinophil Count Tend to be Negatively Associated with Levels of Serum Glucose in Patient with Adrenal Cushing Syndrome. *Endocrinology and Metabolism Korea Journal* .p: 357.
- Loffler, H., Rastetter, J., and Haferlach, T., 2005. *Atlas of Clinical Hematology 6th Edition*. Springer Berlin Heidelberg. United State of America. p: 39 - 47.
- Lou, M., Lou, P., Tang, R., Peng, Y., Yu, S., Huang, W., and He, L., 2015. Relationship Between Neutrophil - Lymphocyte Rasio and Insulin Resistance in Newly Diagnosed type 2 Diabetes Mellitus Patients. *BMC Endocr Disord*. doi: 10.1186/s12902-015-0002-9. P. 4.
- Maleki, A. S., and Moadi - kor, N., 2017. The Effect of Oral Supplementation of Spirulina Plantesis Microalgae on Hematological Parameters in Streptozotocin Induced Diabetic Rat. *American Journal Translation Research*. USA. 9 (12). P: 5242.
- Martini, F. H., Nath, J. L., and Bartolomew, E., F., 2012. *Fundamentals of Anatomy and Physiology Ninth edition*. Benjamin Cummings. United State. p: 621, 776
- Martini, F. H., Nath, J. L., and Bartholomew. E. F., *Fundamental of Anatomy and Physiologi ninth Edition*. Pearson Benjamin Cummings. United State of America. p: 776
- Murray, R. K., 2009. *Biokimia Harper*. Penerbit Buku Kedokteran EGC: Jakarta. p: 203.
- Nagarchi, K., Ahmed, S., Sabus, A., and Saheb, S. H., 2015. Effect of Streptozotocin on Glucose Levels in Albino Wistar Rats. *Pharmaceutical Sciences and Research*. 7 (2): 67-69.
- Nasirian, F., Dadkhah, M., Moradi - kor, N., and Obeidavi, Z., 2018. Effect of Spirulina Plantesis Microalgae on Antioxidant and Anti - Inflammatory Factors in Diabetic Rats. *Dove Press Journal: Diabetes, Metabolic Syndrome and Obesity :Targets and Therapy*. (1) p: 379 .
- Nasirian. F., Mesbahzadeh. B., Maleki. S. A., Mogharnasi. M., and Kor. N. M., 2017. The Effects of Oral Supplementation of Spirulina Plantesis Microalgae on Hematological Parameters in Streptozotocin - Induces Dibetic Rats. *American Journal of Translational Research Publishing*. (12): 9 p. 5242.
- Oba., Shino., Chisato, N., Kozue, N., Kaori, F., Toshiaki, K., Naoyoshi, T., and Hiroyuki, S., 2010. Dietary Glycemic Index, Glycemic Load, and Intake of Carbohydrate and Rice in Relation to Risk of Mortality from Stroke and its Subtypes in Japanese Men and Women. *Metabolism Clinical and Experimental* (59): 1574 – 1582.
- Olfati, A., and Emami, S., 2017. Effect of Dietary Supplementing of *Spirulina plantesis* and *Chlorella vulgaris* Microalgae on Hematologic Parameters

- in Streptozotocin – Induced Diabetic Rats. *Journal of Pediatric Hematology*. (7): 3 p: 166.
- Olvista., 2011. Diabetes dan Obesitas (Kegemukan). September 2, 2018 <http://www.olvista.com/kesehatan/diabetes-dan-obesitas>.
- Petroianu, A., 2011. *The Spleen*. Bentham science publishers. Brazil. p: 22-27.
- Priscillia, Imelda., 2013. Efek Gel Ekstrak Spirulina Plantesis Dalam Mencegah Radang Pada Kulit Mencit Yang Diinduksi 7, 12 - Dimethylbenz [A] Anthracene Topikal. *Skripsi Fakultas Kedokteran Universitas Gadjah Mada*. Yogyakarta. p: 6.
- PERKENI., 2011. *Konsensus Pengendalian dan Pencegahan Diabetes Mellitus Tipe 2 Di Indonesia*. PB PERKENI, Jakarta.
- Patton, T. K., 2015. *Anatomy and Physiology*. Elsevier Health Sciences. United State of America. p. 740.
- Posten, C and Chen, S. F., 2015. *Microalgae Biotechnology Volume 153 dari Advances in Biochemical Engineering/Biotechnology*. Springer. United State of America. p: 10.
- Putri, B. K., 2012. Profil Leukosit dan Metformin Lien Tikus Putih (*Rattus norvegicus* Berkenhout, 1769) Setelah Pemaparan Asap Pembakaran Plastik Jenis HDPE. *Skripsi Universitas Gadjah Mada*. Yogyakarta. p: 81 - 82.
- Ren, X., Mou, W., Su, C., Chen, X., Zhang, H., Cao, B., Li, X., Wu, D., Ni, X., Gui, J., and Gong, C., 2017. Increase in Peripheral Blood Intermediate Monocytes is Associated with the Development of Recent Onset Type 1 Diabetes Mellitus in Childen. *International Journal of Biological Sciences*. Doi: 13 (2): 209 - 218. 10. 715.
- Rogers, K., 2011. *The Human Body Bloode Physiology and Circulation*. Britannica Educational Publishing. New York. p: 19 – 21.
- Salasia, S. I. O., dan Hariono, B. 2010. *Patologi Klinik Veteriner*. Samudra Biru. Yogyakarta. Majalah Ilmu Kefarmasian. 3 (1): 1 – 7.
- Seema, Sonia and Mahipal., 2016. Spirulina as Dietary Supplement for Health: A Pilot Study. *The Pharma Innovation Journal*. 5(4): 07 - 09.
- Sherwood, L. 2001. *Organ Endokrin Perifer dalam Fisiologi Manusia: Dari Sel ke Sistem*. Edisi 2. Penerbit Buku Kedokteran EGC. Jakarta. p: 667.
- Snehalatha, Chamukuttan dan Ramachandran, Ambady *Diabetes Melitus Dalam Gizi Kesehatan Masyarakat*. Editor : Michael J Gibney, et al. Penerbit Kedokteran EGC. Jakarta. p: 105 - 110.
- Soetantyo, I. G. and Sarto, M., 2019. The Antidepressant Effect of *Chlorella vulgaris* on Female Wistar Rats (*Rattus norvegicus* Berkenhout, 1769) with Chronic Unpredictable mild Stress Treatment. *Journal of Tropical Biodiversity and Biotechnology*. Indonesia. (4): 2. p: 80.
- Suckow, M. A., Weisbroth, S. H., and Franklin., C. L., 2005. *The Laboratory Rat*. Elsevier Academic Press. United Kingdom. p: 2- 5
- Swirski, F. K., Nahrendorf, M., Etzrodt, M., Wildgruber, M., Cortez, Retamozo, V., Panizzi, P., Figueiredo, J. L., Kohler, R .H., Chudnovskiy, A., Waterman, P., Aikawa, E., Mempel, T. R., Libby, P., Weissleder, R., and Pittet, M. J. 2009. *Identification of Splenic Reservoir Monocytes and Their Depolment to Inflammtory Sites*. Science. (325): 612 - 616.

- Szkuldeski T., 2001. The Mechanism of Alloxan and Streptozotocin Action in B Cells of the Rat Pancreas. *Physiological Research Journal*. (50): 537 - 46.
- Takeda, Y., Shimomura, T., Asao, H., and Wakabayashi, I., 2017. Relationship Between Immunological Abnormalities in Rat Models of Diabetes Mellitus and Amplification Circuits for Diabetes. *Journal of Diabetes Research*. doi.org/10.1155/2017/4275851. p. 5.
- Tao, L. and Kendall, K., 2013, Sinopsis Organ System Hematologi dan Onkologi :Pendekatan dengan Sistem Terpadu dan Disertai Kumpulan Kasus Klinis, diterjemah oleh Gunawijaya, F. A., Hartono, A & Djuantoro, D., Tangerang Selatan, Karisma Publishing Group. 2005. *American Heart Association, Inc (Brief Reviewer)*. 25 : 2451.
- Tortora, G. J., and Derrickson, B., 2009. *Principles of Anatomy and Physiology Twelfth Edition*. John Wiley & Sons, Inc. United State of America. p: 840
- Thieml, H., Diem, H., and Haeflrich, T., 2004. *Color of Atlas Haematology 2 nd edition*. Thieme Stuttgart. New York. p: 36 – 43.
- Waterbury, L. 2001. Buku Saku Hematologi, Edisi ke -3 . Penerjemah: Suhandi, S., Wijaya, W. S., dan Santoso, A. H. Judul buku asli: *House officer Series Hematology*. Penerbit Buku Kedokteran ECG, Jakarta. p.79 - 192.
- Weiss, D.J., and Wardrop, K. J., 2010. *Scam's Veterinary Hematology, 6<sup>th</sup> Edition*. Wiley Blackwell. United State of America. 263 - 343, 854 - 858.
- Wilding, J. P. H., 2007. The Importance of Free Fatty Acids in the Development of Type 2 Diabetes. *Diabetic Medicine: a Journal of British Diabetic Association*. (24): 934 – 945.
- Wisudanti, D. D., 2016. Aplikasi Terapeutik Geraniin Dari Ekstrak Kulit Rambutan (*Nephelium lappaceum*) Sebagai Antihiperglikemik Melalui Aktivitasnya Sebagai Antioksidan Pada Diabetes Melitus Tipe 2. *NurseLine Journal*. (1):1.
- Yamanishi, Y ., and Karasuyama, H., 2016. Basophil and Mast Cells in Immunity and Inflammation. *Semin Immunopathol*. DOI10.1007/s00281-016-0582-0.
- Younossi, Z. M., 2014. The Impact of Obesity and Nutrition on Chronic Liver Diseases, An Issue of Clinics in Liver Disease vol 18 *Internal Medicine Journal Elsevier Health Sciences*. United State of America. p: 1-4.
- Yosti, M. S., 2017. Pengaruh Pemberian Mikroalga *Chlorella vulgaris* Terhadap Penurunan Kadar Glukosa Darah Pada Mencit Yang Diinduksi Aloksan. *Skripsi Fakultas Matematika dan Ilmu Pengetahuan Alam. Universitas Andalas Padang*. Indonesia. p:19.
- Zhu, L., Su, T., Xu, M., Xu, Y., Li, M., Wang, T., Sun, J., Zhang, J., Xu, B., Lu, J., Bi, Y., Wang, W., and Xu, Y., 2013. *Eosinophil Inversely Associates With Type 2 Diabetes and Insulin Resistance IN Chinese Adults*. National Institutes of Health - National Institute of Child Health and Human Development, United States of America. (8): 7. p: 3, 5.