

## DAFTAR PUSTAKA

- Akpan, H.D., and Usuh, I.F. 2015. Immunological and Haematological Disturbances in Diabetes Mellitus: Modulatory Role of Diets Containing *Vernonia, amygdalina* Leaves. *European Journal of Medicinal Plants*. 6(3): 143-153.
- Alba-Loureiro, T.C., Munhoz, C.D., Martins, J.O., Cerchiaro, G.A., Scavone, C., Curi, R., and Sannomiya, P. 2007. Neutrophil Function and Metabolism in Individuals with Diabetes Mellitus. *Brazilian Journal of Medical and Biology Research*. 40(8): 1037-1044.
- Arhana, E.G. 2000. Peran Nitrogen Oksida pada Infeksi. *Sari Pediatri*. 2(2): 113-119.
- Arora, A., and Rai, Y. 2015. A Review: Phytochemistry, Ethnobotanical and Pharmacological Activities of *Alstonia scholaris* R.Br (Apocynaceae). *International Journal of Advanced Research*. 3(8): 384-590.
- Arora, J., Burg, K., and Dwayne, H. 2009. Common Catfish (*Clarias bathracus*) Extract as Antidiabetic Agent in *Streptozotocin* Inducted Rats. *International Journal Diabetes*: 2007-2010.
- Arulmozhi, S., Mazumder, P.M., Lohidasan, S., and Thakurdesai, P. 2010. Antidiabetic and Antihyperlipidemic Activity of Leaves of *Alstonia scholaris* Linn. R. Br. *European Journal of Integrative Medicine*. 2: 23-32.
- Astawan, M., Wresdiyanti, T., Suliantri dan Nababan, Y.M.S. 2012. Yoghurt Sinbiotik Berbasis Probiotik Lokal dapat Mencegah Diare dan Mengubah Status Hematologi Tikus. *Jurnal Veteriner*. 13(2): 145-153.
- Baratawidjaja, K.G., dan Iris R. 2012. *Imunologi Dasar*. Edisi ke-10. Fakultas Kedokteran Universitas Indonesia, Jakarta. 23-30.
- Bolla, K.N., Santhi, S.K.V., and Varalakshmi, K.N. 2015. Diabetes Mellitus and Its Prevention. *International Journal of Scientific and Technology Research*. 4(8): 119-125.
- Catoni, C., Schaefer, H.M., and Peters, A. 2008. Fruit for Health: The Effect of Flavonoids on Humoral Immune Response and Food Selection in Frugivorous Bird. *Functional Ecology*. 22: 649-654.
- Chairlan, M., dan Lestari, E. 2011. *Pedoman Teknik Dasar untuk Laboratorium Kesehatan*. Penerbit Buku Kedokteran ECG, Jakarta. 281.

- Chodijah, S., Nugroho, A., dan Pandelaki, K. 2013. Hubungan Kadar Gula Darah Puasa dengan Jumlah Leukosit pada Pasien Diabetes Mellitus dengan Sepsis. *Jurnal e-Biomedik*. 1(1): 602-606.
- Dey, A. 2011. *Alstonia scholaris* R. Br. (Apocynaceae): Phytochemistry and Pharmacology: A Concise Review. *Journal of Applied Pharmaceutical Science*. 1(6): 51-57.
- Dhruti, M., Bhavika, P., and Meonis, P. 2016. Studies on Phytochemical Constituents and Antioxidant Activity of *Alstonia scholaris*. *International Journal of Life Sciences*. 4(4): 529-538.
- Erukainure, O.L., Ebuehi, O.A.T., Adeboyejo, F.A., Aliyu, M., and Elemo. 2013. Hematological and Biochemical Changes in Diabetic Rats Fed with Fiber-Enriched Cake. *Journal of Acute Medicine*. 3(2): 39-44.
- Fawcett, D.W. 2002. Buku Ajar Histologi, Edisi ke-12. Penerjemah: Tambayong dan Hartanto. Judul buku asli: *A Textbook of Histology*. Penerbit Buku Kedokteran ECG, Jakarta. 105-106.
- Fowler, M. 2008. *Restraint and Handling of Wild and Domestic Animals: 3<sup>rd</sup> Edition*. Blackwell Publishing, USA. 203-205.
- Frandsen, R., Lee, W., and Anna, D. 2009. *Anatomy and Physiology of Farm Animals*. 7<sup>th</sup> Edition. Blackwell, USA. 272-282.
- Freund, M. 2011. Heckner Atlas Hematologi: Praktikum Hematologi dengan Mikroskop, Edisi ke-11. Penerjemah: Dany, F. Judul buku asli: *Praktikum der Mikroskopischen Häematologie*. Penerbit Buku Kedokteran ECG, Jakarta. 22-24.
- Forsham, K.J.H. 2000. *Endokrinologi Dasar & Klinik: Hormon-hormon Pankreas dan Diabetes Mellitus*. Penerbit Buku Kedokteran, ECG, Jakarta. 742-745.
- Ganong, W.F. 2008. Buku Ajar Fisiologi Kedokteran, Edisi ke-22. Penerjemah: Pendit, B.U. Judul buku asli: *Review of Medical Physiology*. Penerbit Buku Kedokteran ECG, Jakarta. 354, 368-370.
- Geerlings, S.E., and Hoepelman, A.I.M. 1999. Immune Dysfunction in Patients with Diabetes Mellitus (DM). *FEMS Immunology and Medical Microbiology*. 26: 259-265.
- Goud, B.J., Dwarakanath, V., and Swamy, B.K.C. 2015. Streptozotocin – A Diabetogenic Agent in Animal Models. *International Journal of Pharmacy & Pharmaceutical Research*. 3(1): 254-269.

- Guyton, A.C., and Hall, J.E. 2006. *Textbook of Medical Physiology*. 11<sup>th</sup> Edition. Elsevier Saunders, Philadelphia. 429-436, 972-975.
- Hendrix, C.M., and Sirois, M. 2007. *Laboratory Procedures for Veterinary Technicians*. Mosby Elsevier, Philadelphia. 44-45.
- Homles, H.N. 2010. Buku Pegangan Uji Diagnostik. Edisi ke-3. Buku asli: *Handbook of Diagnostic Tests*. Penerjemah: Jaya, D.P., dan Mandera, L.I. Penerbit Buku Kedokteran ECG, Jakarta. 138-142.
- Hrapkiewicz, K., and Medina, L. 2007. *Clinical Laboratory Animal Medicine: An Introduction*. 3<sup>rd</sup> Edition. Blackwell Publishing, IOWA. 278-286.
- Huang, J., Xiao, Y., and Zhou, Z. 2016. Neutrophils in Type 1 Diabetes. *Journal of Diabetes Investigation*. 7(5): 652-663.
- Intan, P.R., Winarno, M.W., dan Prihartim, N. 2016. Efek Ekstrak Campuran Kulit Batang Pulai (*Alstonia scholaris*) dan Meniran (*Phyllanthus niruri*) pada Mencit Swiss Webster yang Diinfeksi *Plasmodium berghei*. *Jurnal Kefarmasian Indonesia*. 6(2): 79-88.
- Iqbal, R.Z., Song-hua, H., Chen-wen, X., and Abdullah, A.G. 2007. Adjuvant Effect of Saponin on Animal Immune Responses. *Journal of Zhejiang University Science B*. 2007B(3): 153-161.
- Jiang, H., Yan, W.H., Li, C.J., Wang, A.P., Dou, J.T., and Mu, Y.M. 2014. Elevated White Blood Cell Count is Associated with Higher Risk of Glucose Metabolism Disorders in Middle-Aged and Elderly Chinese People. *International Journal of Environmental Research and Public Health*. 11: 5497-5509.
- Jung, J., Kang, J., and Kim, H. 2012. Effect of Quercetin on Impaired Immune Function in Mice Exposed to Irradiation. *Nutrition Research and Practice*. 6(4): 301-307.
- Junqueira, L.C., and Carneiro, J. 1992. Histologi Dasar, Edisi Ke-5, Penerjemah: Dharma, A. Judul buku asli: *Basic Histology*. Penerbit Buku Kedokteran ECG, Jakarta. 257-268.
- Kakisina, P., dan Ukratalo, A.M. 2011. Efek Ekstrak Metanol Kulit Batang Pohon Pule (*Alstonia scholaris* L. R. Br) terhadap Penurunan Parasitemia Mencit (*Mus musculus*) Terinfeksi *Plasmodium Berghei* Anka secara *IN VIVO*. *Molucca Medica*. 4(1): 49-60.
- Khyade, M.S., Kasote, D.M., and Valkos, P. 2014. *Alstonia scholaris* (L.). R. Br. and *Alstonia macrophylla* Wall. Ex G. Don: A Comparative Review on

Traditional Uses, Phytochemistry and Pharmacology. *Journal of Ethnopharmacology*. 153: 1-18.

Koolhas, J.M. 2010. *The Laboratory Rat*. University of Groningen, Netherlands. 11-12.

Krinke, G.J. 2000. *The Laboratory Rat*. Academic Press, San Diego. 150.

Kumar, S., and Pandey, A.K. 2013. Chemistry and Biological Activities of Flavonoid: An Overview. *Sciences World Journal*. 162750.

Laurence, C.I., and Bacharach, J.M. 1964. *Evaluation of Drug Activities*. Academic Press, London. 117.

Li, Y., Yao, J., Han, C., Yang, J., Chaundry, M.T., Wang, S., Liu, H., and Yin, Y. 2016. Quercetin, Inflammation and Immunity. *Nutrients*. 8(3): 167.

Murkherjee, P.K., Nema, K.N., Bhadra, S., Mukherjee, D., Braga, F.C., and Matsabisa, M.G. 2014. Immunomodulatory Leads from Medical Plants. *Indian Journal of Traditional Knowledge*. 13(2): 235-256.

Nasar, I.M., Himawan, S., dan Marwoto, W. 2010. *Buku Ajar Patologi II (Khusus)*. Edisi ke-1. Sagung Seto, Jakarta. 454-460.

Negi, J.S., Negi, P.S., Pant, G.J., Rawat, M.S.M., and Negi, S.K. 2013. Naturally Occurring Saponins: Chemistry and Biology. *Journal of Poisonous and Medicinal Plant Research*. 1(1): 1-6.

Nugroho, A.E. 2006. Review Hewan Percobaan Diabetes Melitus: Patologi dan Mekanisme Aksi Diabetogenik. *Biodiversitas*. 7(4): 378-382 .

Oraby, F.S., Farraq, A.R.H., Khalil, M.Y., Hussein, J.S., and El-Soud, N.H.A. 2008. Hypoglycemic Effect of Selected Herbal Extracts on STZ Induced Diabetic Rat. *Journal of Applied Sciences Research*. 2: 50-57.

Otton, R., Soriano, F.G., and Verlengia, R. 2004. Diabetes Induces Apoptosis in Lymphocyte. *Journal of Applied Science Research*. 2: 50-57.

Pankti, K., Payal, G., Manodeep, C., and Jagadish, K. 2012. Phytopharmacological Review of *Alstonia scholaris*: A Panoramic Herbal Medicine. *International Journal of Research in Ayurveda and Pharmacy*. 3(3): 367-371.

Percy, D.H., and Barthold, S.W. 2007. *Pathology of Laboratory Rodents and Rabbits*: 3<sup>rd</sup> Edition. Blackwell Publishing, USA. 125.

- Pratap, B., Chakraborty, G.S., and Mogha, N. 2013. Complete Aspects of *Alstonia scholaris*. *International Journal of Pharmacy and Technology Research*. 5(1): 17-26.
- Pratyush, K., Misra, C.S., James, J., Lipin, D.M.S., Veetil, A.K.T., and Thankamani, V. 2011. Ethnobotanical and Pharmacological Study of *Alstonia* (Apocynaceae) – A Review. *Journal of Pharmaceutical Sciences and Research*. 3(8): 1394-1403.
- 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 Monocyte is Associated with the Development of Recent-Onset Type 1 Diabetes Mellitus in Children. *International Journal of Biological Sciences*. 13(2): 209-218.
- Rosenfeld, A.J., and Sharon, M. 2010. *Clinical Pathology for the Veterinary Team*. Wiley Blackwell, USA. 54-56.
- Sahai, H., and Agreel, M.I. 2000. *The Analysis of Variance : Fixed, Random and Mixed Models*. Springer, Beston. 11.
- Salasia, S.I.O., dan Hariono, B. 2010. *Patologi Klinik Veteriner*. Samudra Biru, Yogyakarta. 51-54, 65-80.
- Sari, L.O.R.K. 2006. Pemanfaatan Obat Tradisional dengan Pertimbangan Manfaat dan Keamanannya. *Majalah Ilmu Kefarmasian*. 3(1): 1-7.
- Saroj, P., Verma, M., Jha, K.K., and Pal, M. 2012. An Overview on Immunomodulation. *Journal of Advances in Scientific Research*. 3(1): 1-7.
- Shidham, V.B., and Swami, V.K. 2000. Evaluation of Apoptotic Leukocytes in Peripheral Blood Smears. *Archive Pathologic Laboratory Medician*. 124: 1291-1294.
- Silamba, N.S. 2014. *Daya Hambat Tanaman Sarang Semut (*Myrmecodia pendens*) terhadap Pertumbuhan Jamur *Candida Albicans**. [Skripsi] Fakultas Kedokteran Gigi Universitas Hasanuddin Makasar. 8-11.
- Smith, J.B., dan Mangkoewidjojo, S. 1988. *Pemeliharaan, Pembiakan dan Penggunaan Hewan Percobaan di Daerah Tropis*. Universitas Indonesia Press, Jakarta. 37-57.
- Subroto, A., dan Saputro, H. 2008. *Gempur Penyakit dengan Sarang Semut*. Penebar Swadaya, Jakarta. 11-32.

- Suckow, M.A., Danneman, P., and Brayanto, C. 2001. *The Laboratory Mouse*. CRC Press, New York. 20-35.
- Sumah, L.H.M., Nindatu, M., dan Kakisina, P. 2012. Efek Pemberian Ekstrak Metanol Kulit Batang Pohon Pulai (*Alstonia scholaris* L. R. Br.) terhadap Hasil Diferensiasi Leukosit Mencit (*Mus musculus*) yang Diinfeksi *Plasmodium berghei* Anka. *Molucca Medica*. 5(1): 39-53.
- Taluta, Y.P., Mulyadi., dan Hamel, R.S. 2014. Hubungan Tingkat Kecemasan dengan Mekanisme Koping pada Penderita Diabetes Melitus Tipe II di Poliklinik Penyakit Dalam Rumah Sakit Umum Daerah Tobelo Kabupaten Halmahera Utara. *Ejournal Keperawatan (e-Kp)*. 2(1): 1-9.
- Tryani, Y. Herliani, I., Patrisia, N., Achmad, S., Hendyanny, E., dan Hartati, J. 2015. Optimasi Dosis dan Perbandingan Efek Ekstrak Etanol Celupkan (*Physalis angulate*) dengan Obat Herbal Imunomodulator Terstandar terhadap Aktivitas Makrofag Intraperitoneal Mencit Jantan Galur DDY. *Global Medical and Health Communication*. 3(1): 1-7.
- Tyastarini, N.P.A.T., dan Saraswati, M.R. 2017. Hubungan Jumlah Limfosit Total dengan Status Nutrisi pada Pasien Diabetes Melitus Tipe 2 Rawat Inap di Rumah Sakit Umum Pusat Sanglah Denpasar Tahun 2014. *E-Jurnal Medika*. 6(8): 1-8.
- 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. 179-192.
- Weiss, D.J., and Wardrop, K.J. 2010. *Schalm's Veterinary Hematology*, 6<sup>th</sup> Edition. Wiley Blackwell, USA. 263-343, 854-858.
- World Health Organization. 2006. *Global Report on Diabetes*. WHO Library Cataloguing in Publication, France. 6.