

## DAFTAR PUSTAKA

- Adi, P., Kusumastuty, I., Amida. 2008. *Pengaruh Pemberian Tepung Bekicot Terhadap Kadar Total Protein Darah pada Rattus novergicus Strain Wistar dengan Diet Non Protein*. Fakultas Kedokteran, Universitas Brawijaya.
- Al-Attar, AM., Al-Taisan, WA.. Preventive Effects of Black Seed (*Nigella Sativa*) Extract on Sprague Dawley Rats Exposed to Diazinon. *Australian Journal of Basic and Applied Sciences*, 2010, Vol. 4(5), ISSN 1991-8178: 957-968.
- Aggarwal, BB., Kunnumakkara, AB.. 2009. *Molecular Targets and Therapeutic Uses of Spices: Modern Ues for Ancient Medicine*.World Scientific Publishing Co. Pte. Ltd. Singapura.
- Amersham Bioscience. 2001. *Protein Purification Handbook*. Amershams plc, Swedia.
- Andaloussi, A., Martineau, L., Vuong, T., Meddah, B., Settaf, PM., Haddad , PS. The In Vivo Antidiabetic Activity of *Nigella sativa* Is Mediated through Activation of the AMPK Pathway and Increased Muscle GLUT4 Content. *Evidence-Based Complementary and Alternative Medicine*, 2011: 1-9.
- Anggaraeni, M., Suthiati, E., Indra, MR. Pemberian Quersetin Terhadap Perubahan Kadar TNF-Alpha Pada Serum Tikus Wistar Dengan Diet Tinggi Karbohidrat. *Jurnal Kesehatan*, 2009, Vol. 7 No. 2: 67-73.
- Azadi, HG., Farzaneh, N. Comparison of Two Regimens of *Nigella sativa* Extract for Treatment of Subclinical Mastitis Caused by *Staphylococcus aureus*. *American Journal of Applied Sciences*, 2010, ISSN 1546-9239: 1210-1214.
- Badan Pengawas Obat dan Makanan RI (BPOM RI). 2000. *Parameter Standar Umum Ekstrak Tumbuhan Obat*. Jakarta.
- Bilal, A. 2008. *Effects of Different Preparation of Nigella sativa (NS) on Glucose and Lipid Metabolism in Type II Diabetic Patient*. Disertasi. Tidak diterbitkan. Department of Food Technology Faculty of Crop and Food Sciences, Pir Mehr Ali Shah, Arid Agriculture University Rawalpindi, Pakistan.
- Boseila, AAH., Messalam, AAH. Immunostimulant Effect of Different Fractions of *Nigella sativa* L. Seeds against Rabies Vaccine. *Nature and Science*, 2011, Vol. 9(2):90-96.

- Bradford, MM. A Rapid and Sensitive Method for the Quantitation of Microgram Quantities of Protein Utilizing the Principle of Protein-Dye Binding. *Analytical Biochemistry*, 1976, 72: 248-254.
- Bruton, L., Lazo, JS., Parker, KL. 2008. *Goodman and Gilman's: The Pharmacological Basis of Therapeutic*. Mc-Graw Hill Company. New York.
- Bryant, NJ., Govers, R., James, DE. Regulated Transport of The Glucose Transporter GLUT4. *Nature Journal: Molecular Cell Biology*, 2002, Vol. 3: 267.
- Choi, K., Kim, YB. Molecular Mechanism of Insulin Resistance in Obesity and Type 2 Diabetes. *The Korean Journal of Internal Medicine*, 2010, Vol. 25, No. 2: 119-128.
- Daniela, EC. 2011. *Effects of Some Biologically Active Substance on The Animal Organism and Modulation of Immune Response*. Disertasi. Tidak diterbitkan, Faculty of Bioly and Geology Science Bolyai University, Babes.
- David and Arkeman, H. Evaluation of The Oral Toxicity of Formaldehyde in Rats. *Universa Medika*, 2008, Vol. 27, No. 3.
- Devmurari, VP. Phytochemical screening study and antibacterial evaluation of *Symplocos racemosa* Roxb. *Science Research*, 2010, Vol. 2 (1), hal. 354-359, ISSN 0975-508X.
- Dipiro, JT., Schwinghammer, TL. 2008. *Pharmacotherapy: a Pathophysiological Approach, 7<sup>th</sup> Edition*. McGraw-Hill Company. New York.
- El-Tahir, KDH., Bakeet, DM. The Black Seed *Nigella sativa* Linnaeus - A Mine for Multi Cures: A Plea for Urgent Clinical Evaluation of its Volatile Oil. *JTU Med Sc*, 2006, Vol. 1(1): 1-19.
- Fauci, AS., Braunwald, E., Kasper, DL., Hauser, SL., Longo, DL., Jameson, JL., Loscalzo, J. 2008. *Harrison's; Principles of Internal Medicine, 17<sup>th</sup> Edition*. McGraw-Hill Company. New York.
- Fararh, K. M., Shimizu, Y., Shiina, T., Nikami, H., Ghanem, MMT., Takewaki. Thymoquinone Reduces Hepatic Glucose Production in Diabetic Hamsters. *Research in Veterinary Science*, 2005: 219–223.
- Gaby, AR. Adverse Effects of Dietary Fructose. *Alternative Medicine Review, Thorne Reseach*, 2005: Vol. 10, No. 4, Hal. 295.



Gali-Muhtasib, H., El-Najjar, N., Schneider-Stock, R. The Medicinal Potential of Black Seed (*Nigella sativa*) and Its Components. *Elsevier*, 2006 M.T.H. Khan and A. Ather (eds.): 133.

Gilani, AH., Jabeer, Q., Khan, MAU. A Review of Medicinal Uses and Pharmacological Activities of *Nigella sativa*. *Pakistan Journal of Biological Sciences* 7, 2007: 41-451, ISSN 1028-8880.

Houcher, Z., Boudiaf, K., Banboubetra, M., Houcher, B. Effects of Methanolic Extract and Commercial Oil of *Nigella sativa* L. on Blood Glucose and Antioxidant Capacity in Alloxan-Induced Diabetic Rats. *Pteridines*, 2007, Vol. 18: 8 – 18.

International Diabetes Federation. 2012. IDF Diabetes Atlas, edisi 5. Merck and Co., Inc. Brussel.

International Diabetes Federation. Definisi Diabetes, (<http://www.idf.org/about-diabetes>, diakses tanggal 22 November 2012).

Internation Diabetes Federation. 2012. Global Guideline for Type 2 Diabetes. Merck and Co., Inc. Brussel.

Kahn, B., Flier, JS. Obesity and Insulin Resistance. *The Journal of Clinical Investigation*, 2000; Vol. 6 No. 4: 473-474.

Kaleem, M., Kirmani, D., Asif, M., Ahmad, Q., Bano, B. Biochemical Effects of *Nigella sativa* L Seeds in Diabetic Rats. *Indian Journal of Experimental Biology*, 2006, Vol. 44:745-748.

Kanteer, M., Coskun, O., Korkmaz, A., Oter, S. Effects of *Nigella sativa* on Oxidative Stress and Cell Damage in Streptozotocin-Induced Diabetic Rats. *The Anatomical Record Part A*, 2004, 685-691.

Koda-Kimbel, Merry Anne. 2009. *Applied Therapeutics: The Clinical Use of Drugs*, 9<sup>th</sup> Ed. Wolters Kruwel. USA.

Koivunen, ME., Krogsrud, RL. Principles of Immunochemical Techniques Used in Clinical Laboratories. *Labmedicine*, 2006, Vol. 37 No. 8: 490-497.

Kraegen, EW., Sowden, JA., Halstead, MB., Clark, PW., Rodnick, KJ., Chisholm, DJ., James, DE. Glucose transporters and in vivo glucose uptake in skeletal and cardiac muscle: fasting, insulin stimulation and immunoisolation studies of GLUT1 and GLUT4. *Biochem Journal*, 1993, Vol. 295: 287-293.

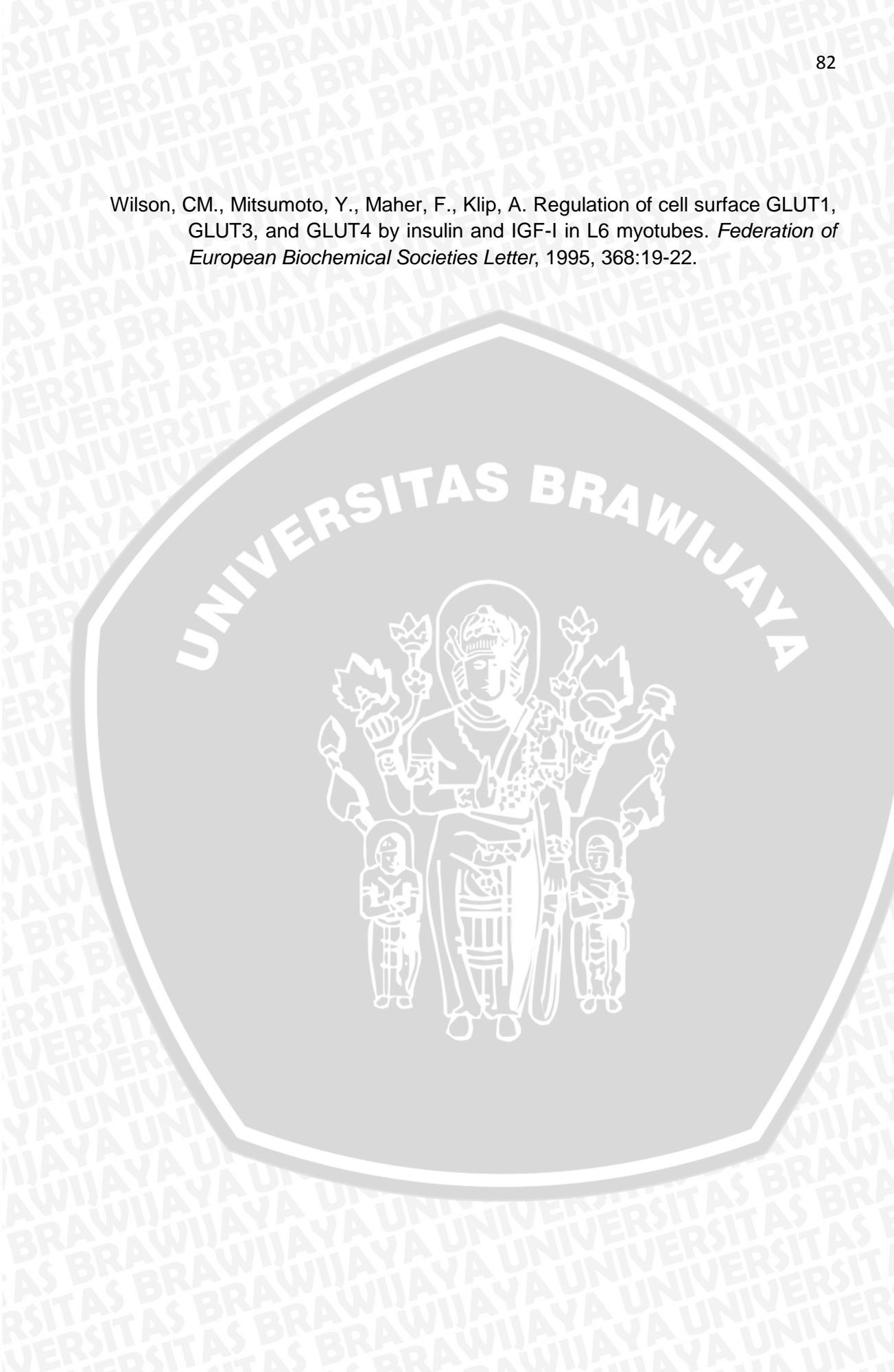
Kristina, NN., Kusumah, ED., Lailani, PK. Analisis Fitokimia dan Penampilan Polapita Protein Tanaman Pegagan (*Centella asiatica*) Hasil Konservasi *In Vitro*. *Bul. Littro*. 2009, Vol. 20 No. 1, Hal. 1 - 20



- Lustig, RH. Fructose: Metabolic, Hedonic, and Societal Parallels with Ethanol. *American Diabetic Association*, 2010, Vol.110: 1307-1321
- Marliana, SD., Suryanti, V., Suyono. Skrining Fitokimia dan Analisis Kromatografi Lapis Tipis Komponen Kimia Buah Labu Siam (*Sechium edule* Jacq. Swartz.) dalam Ekstrak Etanol. *Biofarmasi*, 2005, Vol. 3 (1): 26-31, ISSN: 1693-2242
- Mc. Connell, EL., Basit, AW., Murdan, S. 2008. Measurements of rat and mouse gastrointestinal pH, fluid and lymphoid tissue, and implications for in-vivo experiments (Abstrak). *J Pharm Pharmacol.* 60(1): 63-70.
- Najmi, A., Nasiruddin, M., Khan, RA., Haque, SF. Therapeutic Effect of *Nigella sativa* in Patient of Poor Glycemic Control. *Asian Journal of Pharmaceutical and Clinical Research*, 2012, Vol. 5, Suppl. 3: 224-228.
- Odeyi, AO., Idowu, BA., Mafiana, CF., Oluwalana , SA., Ajayi, OL., Akinloye, OA. Rat Model of Food-Induced Non-Obese-Type 2 Diabetes Mellitus: Comparative Pathophysiology and Histopathology. *Int J Physiol Pathophysiol Pharmaco*, 2012, Vol. 4(1):51-58.
- Paarakh, P. *Nigella sativa* Linn.- a Comprehensive Review. *Indian Journal of Natural Products and Resources*, 2010, vol. 1(4): 409-429.
- Pessin, JE., Saltiel, AR. Signaling Pathways in Insulin Action: Molecular Targets of Insulin Resistance. *The Journal of Clinical Investigation*, 2000, Vol. 106 No. 2: 165-169.
- Qin, B.; Nagasaki, M., Ren, M., Najotto, G., Oshida, Y., Sato, Y. Cinnamon Extract Prevents the Insulin Resistance Induced by High-fructose Diet. *Horm. Metab. Res.*, 2004, 36: 119-125.
- Rhodes, CJ., White, MF. Molecular Insights Into Insulin Action and Secretion. *European Journal of Clinical Investigation*, 2002; 32 (Suppl. 3), 3–13.
- Robenfroid, MB. 1999. Caloric Veneu of Inulin and Oligofructose. (Abstrak). *Journal of Nutrition*, 129 (7).
- Russel, RR., Bergeron, R., Shulman, GI., Young, LH. Translocation of myocardial GLUT-4 and increased glucose uptake through activation of AMPK by AICAR. *Ameriacn Journal of Physiology-Heart and Circulatory*. 1999, Vol. 277, Hal. 643.
- Sethi, A. 2003. *Systemic Lab Experiments in Organic Chemistry*. New Age International (P) Limited Publisher. New York

- Shady, AM., Noor, HZ. Effect of Black Seed (*Nigella Sativa*) on Compact Bone of Streptozotocin Induced Diabetic Rats. *Egypt Journal of Histology*, 2010, Vol. 33 No. 1: 168-177.
- Sharma, NK., Ahirwar, D., Jhede, Gupta, S. Medicinal and Phamacological Potential of *Nigella sativa*: A Review. *Ethnobotanical Review*, 2009, Vol.13: 946-55.
- Shoelson, SE., Herrero, L., Naaz, A. Obesity, Inflammation, and Insulin Resistance. *Gastroenterology*, 2007 Vol. 132, No. 6: 2171.
- Shubrook, J., Colucci, R., Guo, A., Schwartz, F. Saxagliptin: A Selective DPP-4 Inhibitor for the Treatment of Type 2 Diabetes Mellitus. *Clinical Medicine Insights: Endocrinology and Diabetes*, 2011, 1-12.
- Stanhope, KL., Havel, PJ. Fructose Consumption: Potential Mechanism for its Effects to Increase Visceral Adiposity and Induce Dyslipidemia and Insulin Resistance. *Wolters Kluwer Health*, 2008, Vol. 19, Hal. 17.
- Sulistyoningrum, E. Tinjauan Molekuler dan Aspek Klinis Resistensi Insulin. *Mandala of Health*, 2010 Volume 4, Nomor 2: 132-134.
- Taha, C., Klip, A. The Insulin Signaling Pathway. *The Journal of Membrane Biology Springer*, 1999, 169: 1-12.
- Thorell, A., Hirshman, MF., Nygren, J., Jorfeldt, L., Wojtaszewski, JFP., Dufresne, SD., Horton, ES., Ljungqvist, O., Goodyear, LJ. Exercise and Insulin Cause GLUT-4 Translocation in Human Skeletal Muscle. *The American Physiological Society*, 1999: 0193-1849.
- Thompson, M. Immunoanalysis – Part 2: Basic Principles of ELISA. *Analytical Methods Committee AMCTB* , 2010, No. 45, ISSN 1757- 5958.
- Tilg, H., Moschen, AR. Inflammatory Mechanisms in the Regulation of Insulin Resistance. *Journal of Molecular Medicinal*, 2008, 14 (3-4): 222-231.
- Watson, RT., Pessin, JE. Intracellular Organization of Insulin Sigaling and GLUT4 Translocation. *Journal of Endocrine Society*, 2001: 175.
- Widad, S., Bachra, K., Messaoud, B., Djebbar, A., Pierre, D., Mustapha, B. Hepatotoxicity and Langerhans Islets Regenerative Effects of Polar and Neutral Lipids of *Nigella sativa* L. in Nicotinamide/streptozotocin Induced Diabetic Rats. *Pteridines*, 2011 Vol. 22, 2011: 97 – 104.
- Wibudi, A. 2006. *Mekanisme Kerja Sambiloto (Andrographis paniculata) sebagai Antidiabetes*.Disertasi. Diterbitkan. Sekolah Pasca Sarjana, Institut Pertanian Bogor, Indonesia.

Wilson, CM., Mitsumoto, Y., Maher, F., Klip, A. Regulation of cell surface GLUT1, GLUT3, and GLUT4 by insulin and IGF-I in L6 myotubes. *Federation of European Biochemical Societies Letter*, 1995, 368:19-22.

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