

DAFTAR PUSTAKA

- Ahmad MK, Mahdi AA, Shukla KK *et al*, 2008. Effect of *mucuna pruriens* on semen profile and biochemical parameters in seminal plasma of infertile man. *Fertility and Sterility journal*. 90(3): 627-635
- Aitken RJ, 2000. Possible redox regulation of sperm motility activation, *Journal of Andrology*, 21(4): 491 - 496
- Alberts B, Bray, Lewis, Raff, Roberts, and Watson, 1994. *Molecular biology of the cell*, third edition, New York : Garland Publishing Inc, pp 507-521.
- Anonym, 2008. *Mucuna pruriens* information from NPGS/GRIN.. Diakses pada tanggal 8 Oktober 2009. melalui www.ars-grin.gov. <http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?24652>.
- Anonym. *Testis and sperm in Atlas of Developmental Stages*. Diakses pada tanggal 9 Oktober 2009. melalui [http://: it.stlawu.edu/~mtem/devbiol/db99atlas.htm](http://it.stlawu.edu/~mtem/devbiol/db99atlas.htm)
- Anonym, 1997. Toxicological information in *Chemical potassium cyanide*, Section 11. Diakses pada tanggal 20 Nopember 2009 melalui <http://www.chemcas.com/AnalyticalDetail.asp?pidx=1>
- Arif YS, 2006. *Pengaruh pemberian epinefrin terhadap proses spermatogenesis dan kadar testosteron mencit (Mus musculus)*. Tesis. Universitas Airlangga, Surabaya.
- Armitage D and Myers P, 2004. *Mus musculus*, Animal Diversity Web. Accessed November 07, 2009 at http://animaldiversity.ummz.umich.edu/site/accounts/information/Rattus_norvegicus.html.
- Aydemir, Kizeler, Onaran, Aliei, Ozkara, Akyoleu, 2006. Impact of Cu and Fe concentrations on oxidative damage in male infertility. *Biol Trace Elem Res*.112: 193-203.
- Bala V Manyam, Dhanasekaran M, Theodore A. Hare, 2004. *Neuroprotective effects of the parkinson drug mucuna pruriens*. John Wiley & Sons, Ltd.
- Barone F, S Aguanno, and D Agostino, 2005. Modulation of MAA-induced apoptosis in male germ cells : Role of sertoli cells P/Q-type calcium channels, *Reproductive Biology and Endocrinology*, 3: 13
- Bjorndahl L, I. Soderlund and U. Kvist, 2003. Evaluation of the one-step eosin-nigrosin staining technique for human sperm vitality assessment, *Human Reproduction*. Vol 18 (4) : 813-816.

- Budavari S, O'Neil J, Smith Ann, Heckelman PE, 1989. *The Merck Index*. An Encyclopedia of chemicals, drugs, and biologicals. Eleventh Edition. USA, Merck & Co., Inc. hlm 860-861.
- Cancel AM, D. Lobdell, P. mendola, and SD. Perreault, 2000. Objective evaluation of hyperactivated motility in rat spermatozoa using computer-assisted sperm analysis, *Human Reproduction*, 15(6): 1322-1328.
- Cardoso AP, Mirione E, Ernesto M, Massaza F, Cliff J, Haque MR, *et al*, 2005. Processing of cassava roots to remove cyanogens. *Journal of Food Composition And Analysis*, 8: 451-460
- Chandrasekaran Y and JH. Richburg, 2005. The p53 protein influences the sensitivity of testicular germ cells to mono-(2-Etylhexyl) phtalate-induced apoptosis by increasing the membrane levels of fas and DR5 and decreasing the intracellular amount of c-FLIP, *Biology of Reproduction*, 72: 206-213.
- Cooke HJ and Philippa TK, 2002. Organization of the testis, In Mouse models of male infertility. *Nature Reviews Genetics*, Vol 3, pp 790-801.
- Cunningham G, 2002. *Texbook of veterinary physiology*, 3rd edition. WB. Souindens Company. Philadhelpia pp: 356-357.
- Departemen Kesehatan RI, 1990. Petunjuk pemeriksaan pestisida, Jakarta: Pusat Laboratorium Kesehatan, hlm 4-72.
- Dorfman P and de Landoni JH, 1999. *Levodopa*. Diakses pada tanggal 8 Januari 2010. melalui www.inchem.org/documents/pims/pharm/levedopa.htm -
- Ekanem AP, A.Obiekezie, W.Kloas and K. Knopf, 2004. Effects of crude extracts of *Mucuna pruriens* (fabaceae) and *Carica papaya* (caricaceae) against the protozoan fish parasite *Ichthyophthirius multifiliis*. *Parasitol. Res.* 92(5): 361-366.
- FAO/WHO, 1991. *Joint FAO/WHO food standarts programme*. Codex Alimentarius Commission XII, Supplement 4, FAO, Rome, Italy.
- Franson RD, 1992. *Anatomi dan Fisiologi Ternak*, terjemahkan oleh Srigandono, Edisi 4, Yogyakarta: Gadjah Mada University Press, hlm 774-779.
- Galdes and Vallee, 1983. *Categories of zinc metalloenzymes*. In: Sigel H, ed. *Metals ions in biological system*. New York : Dekker: pp.1-6.
- Ghosal S, Singh S, bhattacharya SK, 1971. Alkaloid of *Mucuna pruriens*. *Chemistry and pharmacology. Planta Med*, 19(3): 279-284.

- Goyal HO, TD Braden, M Mansour, CS William, A Kamaleldin, and KK Srivastava, 2001. Diethylstilbestrol-treated adult rats with altered epididymal sperm numbers and sperm motility parameter but without alteration in sperm production and sperm morphology, *Biology of reproduction*, 64, 927-934
- Granner DK, 1985. *Hormon kelamin*. Biokimia Harper. Edisi 20. Jakarta, Penerbit buku kedokteran EGC. hlm.633-650
- Guyton and Hall, 1996. *Fisiologi Kedokteran*. Edisi 9. Buku Kedokteran.hlm.1265-1270.
- Hafez ESE,1970. *Reproduction and breeding technique for laboratory animals*, Lea and Febiger, Philadelphia, pp.28-74
- Hafez E S E and Garner, 1993. *Spermatozoa and seminal plasma in Hafez E.S.E. reproduction in farm animal*, 6th ed, Philadelphia: Lea and Febiger, pp 165-173.
- Handajani S, 2001. *Indigenous mucuna tempe as functional food*. Abstrac. Asia Pac. J. Clin Nutr. 10(3):222-225.
- Handajani S, 2008. *Studi pendahuluan karakteristik kimia (HCN, antioksidan, dan asam Fitat) beberapa jenis koro lokal dengan berbagai perlakuan*. Jakarta: Widyakarya Nasional Pangan dan Gizi.
- Hardjoprano S, 1995. *Ilmu kemajiran ternak*. Surabaya: Airlangga University Press.
- Harrison K. *L-dopa*. Diakses pada tanggal 8 Oktober 2009 melalui <http://en.wikipedia.org/wiki/L-dopa>
- Haryoto, 2006. *Teknologi Tepat Guna : Tempe Benguk*. Yogyakarta: Penerbit Kanisius.
- Hayati A, Windarmanto, 2002. Pengaruh ekstrak akar ginseng jawa terhadap spermatogenesis mencit. Universitas Airlangga, Surabaya.
- Hayati A, D Any, dan IB Rai Pidada, 2005. Spermatozoa motility and morphological recovery process in mice after the induction of 2-methoxyethanol. *Folia Medica Indonesia*, 41 (2) : 90-95.
- Hayati A, 2007. *Kajian kualitas dan protein membran spermatozoa tikus (Rattus novergicus) akibat pemaparan 2-methoxyethanol*. Disertasi. Universitas Gadjah Mada. Yogyakarta.
- Hayati, 2009. *Spermatologi*. Departemen Biologi, Fakultas Saintek Universitas Airlangga, Surabaya.

- Henderson NA, and B. Robaire, 2005. Effect of PNU157706, a Dual 5α – reductase Inhibitor, on Rat Epididymal Sperm Maturation and Fertility, *Biology of Reproduction*, 72: 436-443.
- Janardhanan K, Gurumoorthi P, Pugalenti M, 2003. Nutritional potential of five accessions of a South Indian tribal pulse, *Mucuna pruriens* var. *utilis*. Part I. The effect of processing methods on the content of L-dopa, phyte acid, and oligosaccharides. In: Eilitta M, Mureithi J, Muinga R, Sandoval C, Szabo N (eds), *Proceedings of the International Workshop on Increasing Mucuna's Potential as a Food and Feed Crop*, Mombasa, Kenya, September 23-26, 2003. *Trop Subtrop Agro-Ecosyst*, Vol 1, pp 141-152.
- Jindo, Wine, Ling-Hong Li, and Chapin, 2001. Protein Kinase Is Central to Rat Germ Cell Apoptosis Induced by Methoxyacetiv Acid, *Toxicologic Pathology*, 29: 607 – 616.
- Johanson G, 2000. *Toxicity review of monomethyl ether and its acetat ester*, Critical review in *Toxicology*, 30(3), pp 307-345.
- Johnson^a MH, Everitt BJ, 2000. *Testicular function in the adult*. Dalam *Essential Reproduction*, Fifth Ed, pp 53-67.
- Johnson^b MH, Everitt BJ, 2000. *Coitus and fertilization..* Dalam *Essential Reproduction*, Fifth Ed, pp 153-156.
- Junqueira and Carneiro, 2005. *Basic histology, a text and atlas*, pp. 433, Figure 22-24.
- Kemas AS, 1991. *Rancangan percobaan*. Universitas Sriwijaya Palembang. Jakarta: Rajawali Press, hlm 19-52.
- Kezic S, K mahieu, AC Monster, and FA de Wolf, 1997. Dermal absorption of vaporous and liquid 2-methoxyethanol and 2-ethoxyethanol in volunteers, *Occupational and Environmental Medicine*, 54, pp 38-43.
- Khan A, Koneru A, Kumar P, Satyanarayana S, Kumar E, Sreedevi K, 2008. Antifungal and antihelmintic activity of extracts of *Mucuna pruriens* seeds. *Pharmacologyonline*, Vol. 2, pp 776-780.
- Kusumawati Diah, 2004. *Bersahabat dengan hewan coba*. Yogyakarta: Gajah Mada Universitas Press.
- Ku WW, RN Wine, BY Chae, BI ghanayem, and RE Chapin, 1995. Spermatocyte toxicity of 2-methoxyethanol (ME) in rats and guinea pigs: evidence for the induction of apoptosis. *Toxicology and Pharmacology*, 134, pp 100-110.

- Lavieri JC, Pierini AA, 1978. L-dopa and oligozoospermia. *Andrologia*. Jan-Feb;10(1):74-79.
- Maiti PK, Kar A. Dual role of testosterone in fenvalerate-treated mice with respect to thyroid function and lipid peroxidation. *J Appl Toxicol*, Vol 17, pp 127-131.
- Millar JD, 1983. Glycol ether, 2-methoxyethanol and 2-ethoxyethanol in current *Intelligent Bulletin 39*. DHHS (NIOSH) Publication. No. 83-112
- Misra L, Wagner H. 2007. Extraction of bioactive principles from mucuna pruriens seeds. *Indian Journal of Biochemistry & Biophysics*. Vol 44: 56-60.
- Montagnac JA, Davis CR, Tanumihardjo SA, 2009. Processing techniques to reduce toxicity and antinutrients of cassava for use as a staple food. *In Comprehensive Reviews in Food Science and Food Safety*. Institute of Food Technologists. Vol 8: 17-27
- Nio OK, 1989. Zat-zat toksik yang secara alamiah ada pada bahan makanan nabati. *Cermin Dunia Kedokteran*, No 58, hlm 24-28.
- O'Donnell, KM. Robertson, ME. Jones, and ER. Simpson, 2001. Estrogen and spermatogenesis, *Endocrine Review*, 22(3): 289-318.
- Pasqualotto FF, Lucon AM, Sobreiro BP, Pasqualotto EB, and Arap S, 2004. Effects of medical therapy, alcohol, smoking, and endocrine disruptors on male infertility. *Rev. Hosp. Clin. Med. S. Paulo* 59(6): 375-382.
- Poernomo BS, Widjiati, EM, Luqman M, Mafruchati dan DM Endang, 1998. *Diktat Embriologi*. Laboratorium Ilmu Mudigah. Fakultas Kedokteran Hewan. . Surabaya: Universitas Airlangga.
- Pugalenthi M, Vadivel V, Siddhuraju P, 2005. Alternative food/feed perspectives of an underutilized legume mucuna pruriens var. utilis-A Review. *Plant Foods for Human Nutrition*, Vol 60, pp 201-218.
- Purnomo BB, 2000. *Infertilitas pada pria*, dalam : Dasar-dasar Urologi, Jakarta, CV. Sagung seto, hlm 189-199.
- Rajeshwar ^a Y, M Gupta and UK Mazumder, 2005. Antitumor activity and invivo antioxidant status of mucuna pruriens (fabaceae) seeds against ehrlich ascites carcinoma in swiss albino mice. *Iranian Journal of Pharmacology & Therapeutics*, Vol 4, pp 46-53.
- Rajeshwar ^b Y, Kumar GPS, Gupta M, Mazumder UK , 2005. Studies on in vitro antioxidant activities of methanol extract of Mucuna pruriens (Fabaceae) seeds. *Eur Bull Drug Res*, Vol 13, pp 31-39.

- Ravindran V and Ravindran G, 1988. Nutritional and anti-nutritional characteristics of *Mucuna* (*Mucuna utilis*) bean seeds. *J Sci Food Agric*, Vol 46, pp 71-79.
- Rayburn WF dan Carey JC, 2004. *Obstetri dan Ginekologi* (Obstetrics and Gynecology). Alih bahasa oleh Chalik TMA. Jakarta: EGC, hlm 313-332.
- RCOG Guidelines, 2000. The first category the basic routine infertility, investigation grade B recommendation 1999 in ESHRE Capri Workshop. National Guidelines Clearinghouse.
- Rosa Michele, Zarrilli Stefano, Paesano Luigi, *et al*, 2003. Traffic pollutants affect fertility in men, *Human Reproduction*, 18 (5): 1055-1061
- Rukmi, MGI, 1999. *Pengaruh berbagai konsentrasi tempe gembus dalam ransum pakan terhadap profil lipid serum darah mencit*. Tesis. Tidak dipublikasi. Magister Ilmu Biolmedik, Undip. Semarang.
- Sathiyarayanan L and Arulmozhi S., 2007. *Mucuna pruriens* linn.-A Comprehensive Review. *Pharmacognosy Reviews*, Jan-May ;1(1): 157-162.
- Soehadi K dan KM Arsyad, 1983. *Analisis sperma*. Surabaya: Airlangga, Surabaya.
- Sherwood, Lauralee, 2004. *Human physiology*. 5 th Edition. International Student Edition, United States of Amerika: THOMPSON Brooks/Cole.
- Shih TS, AT Hsieh, YH Chen, GD Liao, CY Chen, JS Chou, and SH Liou, 2003. Follow up study of hematological effects in workers exposed to 2-methoxyethanol, *Occupational and Environmental Medicine*, Vol 60, pp 130-135.
- Shukla KK, Mahdi AA, Ahmad MK, Jaiswar SP, Shankwar SN, Tiwari SC, 2007. *Mucuna pruriens* reduces stress and improves the quality of semen in infertile men. eCAM Advance Access published, pp 1-8.
- Shukla KK, Mahdi AA, Ahmad MK, Shankwar SN, Rajender S, Jaiswar SP, 2008. *Mucuna pruriens* improve male fertility by its action on the hypothalamus-pituitary-gonadal axis. American Society for Reproductive Medicine Published.
- Siddhuraju P, Becker K, 2001. Effect of various domestic processing methods on antinutrients and in vitro protein and starch digestibility of two indigenous varieties of Indian tribal pulse, *Mucuna pruriens* var. *utilis*. *J Agric Food Chem*, Vol 49, pp 3058 - 3067.

- Sigman M and Jarow JP, 2007. *Male infertility*, In: Campbell-Walsh Urology. University of Pennsylvania Medical Center. Saunders-Elsevier, 9th edition, Vol 1, pp 609-625.
- Soehadi K. dan Winarso H., 1996. *Infertilitas pria masa kini dan masa akan datang*, Dalam Seminar Penanganan Andrologik pada Infertilitas dan Impotensi. Poli Andrologi RSUD Dr. Soetomo Surabaya dan Lab. Biomedik Fakultas Kedokteran Unair. Surabaya: 20 April 1996.
- Speroff L, & Fritz MA, 2005. *Clinical gynecology endocrinology and infertility*. 7th edition. Philadelphia: Lippincot Williams & Wilkins.
- Steel RGD, J. Torrie, 1991. *Prinsip dan prosedur statistika suatu pendekatan biometric*. Alih bahasa Bambang Sumantri, Cetakan kedua, Jakarta : PT. Gramedia Pustaka Utama, hlm. 51-62.
- Sudjana, 1984. *Metoda statistika*. Edisi ketiga, Bandung: Penerbit Tarsito, hlm 157-170, 213-261.
- Sudharmadji S, Haryono B, Suhardi, 1984. *Prosedur analisa untuk bahan makanan dan pertanian*. Edisi ke-3. Yogyakarta: Liberty, hlm 104-105.
- Sugiono, 2007. *Statistik untuk penelitian*. Bandung: Alfabeta, hlm 24-120.
- Supadmi, 2009. *Efek 2-Methoxyethanol terhadap kadar testosteron dan histologis testis mencit (Mus musculus L)*. Tesis. Universitas Airlangga Surabaya.
- Supriadi G, 2003. *Membuat susu kedelai dan tahu*. Departemen pendidikan nasional. Diakses pada tanggal 19 Oktober 2009 melalui http://mirror.unpad.ac.id/oarari/.../membuat_susu_kedelai_dan_tahu.
- Suresh S, Prithviraj E, Prakash S, 2009. Dose and time dependent effects of ethanolic extract of *Mucuna pruriens* linn. seed on sexual behaviour of normal male rats. *Journal of Ethnopharmacology*; 122 (3): 497-501.
- Syntin P, and B. Robaire, 2001. Sperm structural and motility change during aging in the brown norway rat, *Journal of Andrology*, 22(2): 235-244.
- Tienhoven VA, 1968. *Physiology of vertebrates*. Cornell University Press. London.
- Tirado OM, ED. Martinez, OC. Rodriguez, M. Danielsen, DM. Selva, J. Reventos, F. Munell and CA. Suarez-Quian, 2003. Methoxyacetic acid disregulation of androgen receptor and androgen-binding protein expression in adult rat testis, *Biology of Reproduction*, 68: 1437-1446.
- Tjay T.H. and Rahardja K, 2002. *Dasar-dasar diet sehat*. Ed 5, Jakarta: PT Elex Media Komputindo, hlm 838-850.

- Tripathi and AK Upadhyay, 2001. *Antioxidant property of mucuna pruriens linn.* *Current Science*; 80(11):1378.
- Utama H, Gan VHS, 1995. *Antikonvulsi.* Dalam buku *Farmakologi dan Terapi.* Bagian Farmakologi FK UI. Gaya Baru Jakarta, Edisi Ke-4. Cetak Ulang 2003: hlm 177-88.
- Vijayakumari K, Smitha KB, Junardhanan K, 2002. Biochemical characterization of the tribal pulse, *Mucuna utilis* Wall ex. Weight Seeds. *J Food Sci Technol*, Vol 39, pp 650 – 653
- Wang W and RE. Chapin, 2000. Differential gene expression detected by suppression subtractive hybridization in the ethylene glycol monomethyl ether-induced testicular lesion, *Toxicological Sciences*, Vol.56. pp 165-174.
- Weinbauer GF and Nieschlag E, 1999. *Testicular physiology of primates* .In *Reproduction in nonhuman primates.* Waxmann, Muenster, pp 13-26.
- WHO, 1999. *WHO laboratory manual for the examination of human semen and sperm-cervical mucus interaction*, 4th ed, USA Cambridge University Press, 68-78.
- WHO, 1992. *Pemuntun lab. WHO untuk pemeriksaan semen manusia dan interaksi semen getah serviks.* Bagian Biologi medik, Fak.Kedokteran UNSRI. Palembang.
- Yoon, Hong, Song, Cho, Choi, Lee, and Kim, 2001. Effect of Ethylene Glycol Monoethyl Ether on the Spermatogenesis in Pubertal and Adult Rats. *Veteranary Science*, 2 (1):47-51.
- Zeyneloglu HB, V. Baltaci, S. Ege, A. Haberal, and S. Batioglu, 2000. Detection of chromosomal abnormalities by flourecent in-situ hybridization in immotile viabel sprematozoa determined by hypo-osmotic sperm swelling tes, *Human Reproduction*, Vol.15, pp 853 – 856.