

## DAFTAR PUSTAKA

- Agarwal, A. dan Saleh R. A. 2002. Oxidative stress and male Infertility: from research bench to clinical practice. *Journal Andrology* **23(6)**.
- Agarwal, A. dan Prabakaran S. A. 2005. Oxidative stress and antioxidants in male infertility. *Iranian Journal of Reproductive Medicine* **3(1)**, 1-8.
- Agarwal, A. 2011. Pharmacological activities of flavonoid. *Int Journal Pharmacology SCL Nanotech* **4(2)**, 1394
- Aitken, R. J. Gordon, E. Harkiss, D. 1998. Relative impact of oxidative stress on the functional competence and genomic integrity of human spermatozoa. *Molecular Reproduction Journal* **59**, 1037-1046
- Akbar, H. R. 2010. *Isolasi dan Identifikasi Golongan Flavonoid Daun Dandang Gendis (Clinacanthus Nutans) Berpotensi Sebagai Antioksidan*. IPB. Bogor.
- Andarwulan, N., H. Wijaya, dan D.T. Cahyono. 1996. *Aktivitas Antioksidan dari Daun Sirih (Piper betle L)*. Teknologi dan Industri Pangan.
- Anonim. 2014. *Chem Spider*. <http://www.chemspider.com/Chemical-Structure.7728.html>. Diakses tanggal 1 Maret 2014
- Aoki, V.W., L. Liu, dan D.T. Carrell. 2006. Identification and evaluation of a novel sperm protamine abnormality in a population of infertile males. *Human Reproduction* **20(5)**, 1298-1306.
- Armitage, D., Myers. 2004. *Mus musculus*. Animal Diversity Web. Dalam [http://animaldiversity.ummz.umich.edu/accounts/Mus\\_musculus](http://animaldiversity.ummz.umich.edu/accounts/Mus_musculus). Diakses 1 Maret 2014
- Asifa U. S., Siti K., Didiek P. H. 2014. Uji aktivitas antibakteri fraksi n-heksana kulit buah manggis (*Garcinia mangostana L.*) terhadap pertumbuhan *Shigella flexneri* secara in vitro. *Naskah publikasi*. Fakultas Kedokteran Universitas Tanjungpura
- Aulanni'am, Muslim Akmal, M. Ari Widodo, Sutiman B. Sumitro, dan Basuki B. Purnomo. 2011. Inhibin B menghambat ekspresi molekul protamine P2 di dalam kepala spermatozoa tikus (*Rattus norvegicus*). *Jurnal Kedokteran Hewan* **5 (2)**.
- Barile, E. Bonanomi, G., Antignani, V., Zolfaghari, B., Sajjadi, S., Scala, F., Lanzotti, V. 2007. Saponins from *Allium minutiflorum* with antifungal activity. *Phytochemistry* **68**, 596 – 603.
- Benson, P. dan Pernoll. 2009. *Buku saku Obsetry Gynecology William*. EGC. Jakarta.

- Chanapiwat, P., Kampon, K., Padet, T. 2010. The sperm DNA damage Rafter cryopreservation of bar semen in relation to post-thawed semen qualities, antioxidant supplementation and boars effects. *Thailand Journal Veterinary Medica* **40(2)**, 187-193.
- Clermont, Y. dan Leblond, C. P. 1953. Renewal of spermatogonia in the rat. *America Journal Anatomy* **93**, 475–501.
- Courteau, J. 2012. *Brief Summary : Garcinia mangostana L. Intergrated Taxonomic Information System.* [http://eol.org/pages/hierarchy\\_entries/46212060/overview](http://eol.org/pages/hierarchy_entries/46212060/overview). Diakses tanggal 26 Pebruari 2014.
- Darzynkiewicz, Z. 1979. *Flow cytometry and sorting*. Wiley and Sons. New York
- Dhalluin, S., Elias, Z., Doirot, O., Gate, L., Pages, N., Tapeiro, H., Vasseur, P., and Nguyem-Ba, G., 1999. Apoptosis inhibition and ornithine decarboxylase superinduction as early epigenetic event in morphological transformation of syrian hamster embryo cells exposed to 2 methoxyacetaldehyde a metabolite of 2-methoxyethanol. *Toxicology Letters* **105(2)**, 163-175
- Diczbali, Y. 2011. *Farm and Forestry Production and Marketing Profile For Mangosteen (Garcinia mangostana)*. Permanent Agriculture Resource. USA
- Evenson, D.P. Larson K. L. Jost L. K. 2002. Sperm chromatic structure assay : its clinical use for detecting sperm dna fragmentation in male infertility and comparisons with the other technique. *Journal of Andrology* **23**, 25-43.
- Fessenden, Ralp J. dan Joan S. Fessenden. 1997. *Kimia Organik Jilid 1 Edisi Ketiga*, terjemahan oleh : Aloysius H. P, Penerbit Erlangga. Jakarta.
- Frandsen, R.D., 1992. *Anatomi dan Fisiologi Ternak*. Gajah Mada University-Press. Yogyakarta.
- Ganong, W.F. 2001. *Buku Ajar Fisiologi Kedokteran*. EGC. Jakarta.
- Gorczyza, W., Gong, J., Drazynkiewicz, Z. 1993. Detection of dna strand breaks individual apoptotic cell by in situ terminal deoxynucleotidyl transferase and nick translation assay. *Cancer Resource*. **53**, 1945-1951.
- Guenther, E. 1987. *Minyak Atsiri*. Jilid 1. UI Press. Jakarta.
- Hafez, E. S. E. 2000. *Reproduction in Farm Animal*. Edisi 7. Lippincot Williams dan Wilkins. Philadelphia.
- Halliwell, B. dan Whiteman, M. 2004. Measuring reactive species and oxidative damage in vivo and in cell culture: how should you do it and what do the results mean? *British Journal Pharmacology*. **142**, 231-55.

- Hartanto, B.S. 2011. *Mengobati Kanker Dengan Manggis*. Penerbit Second Hope. Yogyakarta.
- Hasyim, A. 2008. *Manggis Kaya Antioksidan*. Balai Pengkajian Teknologi Pertanian. Sumatra Barat.
- Harborne, J. B. 1987. *Metode Fitokimia, Penuntun Cara Modern Menganalisa Tumbuhan*. Penerbit ITB. Bandung.
- Hayati, A. 2007. Kajian kualitas dan protein membran spermatozoa tikus (*Rathus norvegicus*) akibat paparan 2-methoxyethanol. *Berkala Ilmiah Biologi*. **5** (1), 39-44.
- Hayati, A. 2011. *Spermatologi*. Airlangga University Press. Surabaya.
- Hayati, A., Karolina, L., Subani, N. D., and Yudiwati, R. 2014. The potencial of *Garcinia mangostana* pericarp extract on spermatogenesis and sperm quality of mice (*Mus musculus*) after 2-methoxyethanol exposure. *Journal of Applied Environmental and Biological Science* **4**(4), 47-51.
- Ho C. K, Huang Y. L, Chen CC., 2002. Garcinone E, a xanthone derivative, has potent cytotoxic effect against hepatocellular carcinoma cell lines. *Planta Medica* **68**(11), 975-979.
- Houghton, Peter J. dan A. Rahman. 1998. *Laboratory Handbook for the Fractination of Natural Extracts*. Chapman and Hall : London.
- Hutapea, J. R. 1994. *Inventaris Tanaman Obat Indonesia III*. Departemen Kesehatan RI. Jakarta.
- Ichimura, S., M. Zama Ana H. Fujita. 1971. Quantitative determinatif of single-stranded election in DNA using the fluorescent probe acridine orange. *Biochim Biophys Acta* **240**, 485-95.
- Ismudiono. 1999. *Fisiologi dan Teknologi Reproduksi Hewan Betina Domestik*. Fakultas Kedokteran Hewan Universitas Airlangga.
- Jiang, Mo. 2008. Spectral properties of acridine orange bound to DNA/RNA. *Optical Spectroscopy Final Reports*.
- Jinsart, W., Ternai, B., Buddhasukh, D., and Polya, G.M. 1992. Inhibition of wheat embryo calcium-dependent protein kinase and other kinases by mangostin and gammamangostin. *Journal of Phytochemistry* **31**(11), 3711-3713.
- Johanson, G. 2000. Toxicity review of ethylene glycol monomethyl ether and its acetate ester. *Critical Review Toxicology* **30**(3), 307-45

- Jung H.A, Su B.N, Keller W.J, Mehta R.G, Kinghorn A.D. 2006. antioxidant xanthones from the pericarp of *Garcinia mangostana* (Mangosteen). *Journal of Agricultural and Food Chemistry* **54(6)**, 2077-2082
- Junqueira, L.U dan Carneiro. 1980. *Histologi Dasar*. (Alih bahasa: Adji Dharma). CV EGC. Jakarta.
- Jutte, N. H. P. M., Grootegoed, J. A., Rommerts, F. F. G., Van del Mollen, H. J. 1981. Exogenous lactate is essential for metabolic activities in isolated spermatocytes and spermatid. *Journal Reproduction Fertility* **62** : 399-405.
- Katz, A. dan Orellana, O., 2012. *Protein Synthesis and the Stress Response*. University of Chile. Santiago.
- Kusumawati, Diah. 2004. *Bersahabat Dengan Hewan Coba*. Gadjah Mada University Press. Yogyakarta.
- Lewis dan Aitken, 2005. DNA damage to spermatozoa has impacts on fertilization and pregnancy. *Reproductive BioMedicine Journal* **322 (1)**, 33-41.
- Lober, G. 1981. The fluorescence of dye nucleic-acid complexes. *Journal of Luminescence* **22(3)**, 221-265
- Mardawati, E., Cucu S.A., Herlina M. 2008. Kajian aktivitas antioksidan ekstrak kulit manggis (*Garcinia mangostana* L.) dalam rangka pemanfaatan limbah kulit manggis di kecamatan puspahiang kabupaten tasikmalaya. *Laporan Akhir Penelitian*. Lembaga Penelitian Universitas Padjadjaran.
- Mardiana. 2011. *Ramuan dan Khasiat Kulit Manggis*. Penebar Swadaya. Jakarta.
- Mengual, L., J.L. Balleca, C. Ascaso, and R. Oliva. 2003. Marked differences in protamine content and P1/P2 ratios in sperm cells from percoll fractions between patients and controls. *Journal Andrology* **24**, 438-447.
- Min, B. R., Pinchak, W. E., Merkel. R., Walker, S., Tomita, G., Anderson, R. C.2008. Comparative antimicrobial activity of tannin extracts from perennial plants on mastitis pathogens. *Scientific Research and Essay*. **3(2)**, 66-73.
- Moongkarndi, P., Kosema, N., Kaslungka, S., Luanratana, O., Pongpan, N., dan Neungton, N. 2004. Antiproliferation, antioxidation and induction of apoptosis by *Garcinia mangostana* (Mangosteen) on SKBR3 human breast cancer cell line. *Journal of Ethnopharmacol* **90**, 161-166
- Moriwaki, K. 1994. *Genetic in Wild Mice. Its Application to Biomedical Research*. Karger. Tokyo.
- Montagud A. H, 2006. *Provisional Statement of Scoel on Occupational Exposure Limits for 2-Methoxyethanol and 2-Methoxyethyl Acetate*. Luxemburg.

- Montgomery, Douglas C. 2001. *Introduction Non to Statistical Quality Control. Fourth Edition*. Canada: John Wiley & Sons, Inc.
- Moslen, M.T., Khapalia, L., Balasubramanian, H., Yin, Y. M., dan Au, W. W. 1995. Species differences in testicular and hepatic biotransformation of 2-methoxyethanol. *Toxicology Journal* **96** (3), 217-224
- Oakberg, E.P. 1956. A description of spermatogenesis in the mouse and its use in analysis of the cycle of seminiferous epithelium and germ cell renewal. Messachuset : *American Journal of Anatomy* **99**, 507-516
- Ozyurt, D., Birsen, D., Resat, A., 2005. Determination of total antioxidant capacity by a new spectrophotometric method based on Ce(iv) reducing capacity measurement. *Talanta Journal* **71(3)**, 1155-1165
- Pasaribu, F., Sitorus, P., Bahri, S. 2012. Uji ekstrak etanol kulit buah manggis (*Garcinia mangostana*) terhadap penurunan kadar glukosa darah. *Pharmaceutics and Pharmacology* **1 (1)**, 1-8
- Paulsen, C. A. 1974. *The Testis. Williams Textbook of Endocrinology*. 5th edition. W. B. Saunders Co., Philadelphia, London, Toronto. hal. 354.
- Peacocke, A. R. 1973. The interaction of acridine with nucleic acids. In: Acridines R.M. Acheson (Ed.). New York. Inter Science Publishers. 723-754
- Peter, W. L. 1976. *The Laboratory Mouse*. New York. Edinburg.
- Putranti, O. D., Kustono, Ismaya. 2010. Pengaruh penambahan crude tannin pada sperma cair kambing peranakan ettawa yang disimpan selama 14 hari terhadap viabilitas spermatozoa. *Buletin Peternakan* **34(1)**, 1-7.
- Putri, W. S., Warditiani, N. K., Larasanty, L. P. F. 2013. Skrining fitokimia ekstrak etil asetat kulit buah manggis (*Garcinia mangostin*). *Jurnal ilmiah kefarmasian* **2(1)**, 1-16.
- Rahmawati, Annisa. 2013. Analisis kualitas spermatozoa sapi friesian holstein dengan variasi lama waktu pembekuan semen. *Tesis*. Departemen Biologi Fakultas Sains dan Teknologi Universitas Airlangga.
- Ramamoorthy, P. K. dan Bono, A. 2007. Antioxidant activity, total phenolic and flavonoid content of *Morinda citrifolia* fruit extracts from various extraction processes. *Journal of Engineering Science and Technology* **2(1)**, 70-80.
- Reza, M., Wijaya, E., Tuherkih. 1994. *Pembibitan dan Pembudidayaan Manggis*. Jakarta. Penebar Swadaya.
- Ross M. H. 1995. *Histology a Text and Atlas. 3rd ed*. USA. William & Wilkins, Baltimore.

- Rugh, R. 1968. *The Mouse its Reproduction and Development*. Minneapolis. Burgess Publishing Company.
- Rumanta M., Tien W. S., S. Sudarwati, 2001. Pengaruh asam metoksiacetat terhadap organ reproduksi mencit. *Jurnal Kedokteran dan Farmasi* **33**, 61–7.
- Schuler P. 1990. Natural antioxidant exploited commercially. Di dalam: “*Food Antioxidants*”. Husdnt BJB, editor. New York. Elsevier Applied Science.
- Sharma, R. K. dan Agarwal, A. 1996. Role of reactive oxygen spesies in male infertility (Review) *Journal of Urology* **48**, 835-850.
- Sikka, S. C., Rajasekaran, M., & Hellstrom, W. J. 1995. Role of oxidative stress and antioxidants in male infertility. *Journal of Andrology* **16**, 464–468.
- Slater, F. T., 1984. Free-radical mechanisms in tissue injury. *Biochemistry Journal* **222**, 1-15
- Sudarmadji, S. Haryono, B., dan Suhardi. 1989. *Prosedur Analisa untuk Bahan Makanan dan Pertanian*. Liberty. Yogyakarta.
- Sugito, J. 2003. *Kamus Pertanian Umum*. Penebar Swadaya. Jakarta.
- Syahrum, M. H. 1994. *Reproduksi dan Embriologi: Dari Satu Sel Menjadi Organisme*. UI-Press. Jakarta.
- Syaifuddin, H. 2006. *Anatomi Fisiologi untuk Mahasiswa Keperawatan*. Edisi 3. Jakarta. EGC. hal. 269.
- Tremallen, K. 2008. Oxidative stress and male infertility – A Clinical Perspective. *Human Reproduction Update*. 1–16.
- Twigg, J., Irvine, D. S., Houston, P., Fulton, N., Michael, L., and Aitken, R. J. 1998. Latrogenic DNA damage induced in human spermatozoa during sperm preparation : protective significance of seminal plasma. *Molecular Human Reproduction* **4**, 439-445.
- Wu, C., You-Cheng, H., Jin-Cherng, L., Li-Wei, L., Yung-Ta, L., Hui Ching. 2011. Triterpenoid contents and anti-inflammatory properties of the methanol extracts of ligustrum species leaves. *Molecules* **16**, 1-15.
- Weecharangsan, W., Opanasopit, P., Sukma, M., Ngawhirunpat, T., Sotanaphun, and U., Siripong, P. 2006. Antioxidative and neuroprotective activities of extracts from the fruit hull of mangosteen (*Garcinia mangostana* Linn.). *Journal of Medical Principles and Practice* **15(4)**, 281-287.
- Yatim, W. 1994. *Reproduksi dan Embriologi*. Bandung. Tarsito

Zarena, A. S. dan S. K. Udaya. 2009. Screening of xanthone from mangosteen (*Garcinia mangostana* L.) peels and their effect on cytochrome C reductase and phosphomolybdenum activity. *Journal of Natural Products* **2**, 23-30.

