



## DAFTAR PUSTAKA

- Allikmets, R., Gerrard, B., Hutchinson, A. dan Dean, M., 1996. Characterization of the human ABC superfamily: isolation dan mapping of 21 new genes using the expressed sequence tags database. *Hum. Mol. Genet.*, 5(10), pp.1649-1655.
- Allikmets, R., Schriml, L.M., Hutchinson, A., Romano-Spica, V. dan Dean, M., 1998. A human placenta-specific ATP-binding cassette gene (ABCP) on chromosome 4q22 that is involved in multidrug resistance. *Cancer Res.*, 58(23), pp.5337-5339.
- Andersen, V., Østergaard, M., Christensen, J., Overvad, K., Tjønneland, A. and Vogel, U., 2009. Polymorphisms in the xenobiotic transporter Multidrug Resistance 1 (MDR1) and interaction with meat intake in relation to risk of colorectal cancer in a Danish prospective case-cohort study. *BMC cancer*, 9(1), p.407.
- Au, A., Baba, A.A., Goh, A.S., Fadilah, S.A.W., Teh, A., Rosline, H. dan Ankathil, R., 2014. Association of genotypes dan haplotypes of multi-drug transporter genes ABCB1 dan ABCG2 with clinical response to imatinib mesylate in chronic myeloid leukemia patients. *Biomed Pharmacother.*, 68(3), pp.343-349.
- Aziz, M.F., 2009. Gynecological cancer in Indonesia. *J. Gynecol. Oncol.*, 20(1), pp.8-10.
- Bram, E.E., Ifergan, I., Grimberg, M., Lemke, K., Skladanowski, A. and Assaraf, Y.G., 2007. C421 allele-specific ABCG2 gene amplification confers resistance to the antitumor triazoloacridone C-1305 in human lung cancer cells. *Biochem Pharmacol*, 74(1), pp.41-53.
- Burger, H., Foekens, J.A., Look, M.P., Meijer-van Gelder, M.E., Klijn, J.G., Wiemer, E.A., Stoter, G. dan Nooter, K., 2003. RNA expression of breast cancer resistance protein, lung resistance-related protein, multidrug resistance-associated proteins 1 dan 2, dan multidrug resistance gene 1 in breast cancer. *Clinical Cancer Res.*, 9(2), pp.827-836.
- Campa, D., Butterbach, K., Slager, S.L., Skibola, C.F., De Sanjosé, S., Benavente, Y., Becker, N., Foretova, L., Maynadie, M., Cocco, P. and Staines, A., 2012. A comprehensive study of polymorphisms in the ABCB1, ABCC2, ABCG2, NR112 genes and lymphoma risk. *Int J Cancer*, 131(4), pp.803-812.



- Chen, V.W., Ruiz, B., Killeen, J.L., Coté, T.R., Wu, X.C., Correa, C.N. dan Howe, H.L., 2003. Pathology dan classification of ovarian tumors. *f*, 97(S10), pp.2631-2642.
- Chen, P., Zhao, L., Zou, P., Xu, H., Lu, A. dan Zhao, P., 2012. The contribution of the ABCG2 C421A polymorphism to cancer susceptibility: a meta-analysis of the current literature. *BMC cancer*, 12(1), p.383.
- Cho, K.R. dan Shih, I.M., 2009. Ovarian cancer. *Annu Rev Pathol-Mech.*, 4, pp.287-313.
- Cramer, D.W., Harlow, B.L., Titus-Ernstoff, L., Bohlke, K., Welch, W.R. dan Greenberg, E.R., 1998. Over-the-counter analgesics dan risk of ovarian cancer. *The Lancet*, 351(9096), pp.104-107.
- Doubeni, C.A., Doubeni, A.R. dan Myers, A.E., 2016. Diagnosis dan Management of Ovarian Cancer. *Am. Fam. Physician*, 93, pp.937-944.
- Doyle, L.A., Yang, W., Abruzzo, L.E., Krogmann, T., Gao, Y., Rishi, A.K. dan Ross, D.D., 1998. Cloning dan characterization of breast cancer resistance protein (BCRP), a novel ATP-binding cassette (ABC) transporter that may contribute to the multidrug-resistance phenotype of MCF-7/AdrVp breast cancer cells. In *Proc. Am. Assoc. Cancer Res* (Vol. 39, p. 656).
- Doyle, L.A., Yang, W., Abruzzo, L.V., Krogmann, T., Gao, Y., Rishi, A.K. dan Ross, D.D., 1998. A multidrug resistance transporter from human MCF-7 breast cancer cells. *Proc Natl Acad Sci*, 95(26), pp.15665-15670.
- Dvoretzky, P.M., Richards, K.A., Angel, C., Rabinowitz, L., Beecham, J.B. dan Bonfiglio, T.A., 1988. Survival time, causes of death, dan tumor/treatment-related morbidity in 100 women with ovarian cancer. *Hum. Pathol.*, 19(11), pp.1273-1279.
- Fauzan, Rendy. 2009. *Gambaran Faktor Penggunaan Kontrasepsi terhadap Angka Kejadian Kanker Ovarium di RSUPN Cipto Mangunkusumo Jakarta Berdasarkan Pemeriksaan HistoPatologik Tahun 2003-2007*. FK UI 2009.
- Ferlay, Jacques, *et al.* 2015. Cancer incidence dan mortality worldwide: sources, methods dan major patterns in GLOBOCAN 2012. *Int. J. Cancer.*, 136.5 (2015): E359-E386.
- Gardner, E.R., Ahlers, C.M., Shukla, S., Sissung, T.M., Ockers, S.B., Price, D.K., Hamada, A., Robey, R.W., Steinberg, S.M., Ambudkar, S.V. dan Dahut, W.L., 2008. Association of the ABCG2 C421A polymorphism with



- prostate cancer risk dan survival. *BJU international*, 102(11), pp.1694-1699.
- Gillet, J.P. dan Gottesman, M.M., 2010. Mechanisms of multidrug resistance in cancer. *Multi-drug resistance in cancer*, pp.47-76.
- Gottesman MM, Pastan I. Biochemistry of multidrug resistance mediated by the multidrug transporter. *Annu Rev Biochem* 1993; 62: 385-427
- Hartono, Suryadi, Sudarmo, R.S., Romi, M.M., 2011. Genetika Kedokteran. Bagian Anatomi Fakultas Kedokteran Universitas Gadjah Mada: Yogyakarta
- Hu, L.L., Wang, X.X., Chen, X., Chang, J., Li, C., Zhang, Y., Yang, J., Jiang, W. and Zhuang, S.M., 2007. BCRP gene polymorphisms are associated with susceptibility and survival of diffuse large B-cell lymphoma. *Carcinogenesis*, 28(8), pp.1740-1744.
- Hyde, S.C., Emsley, P., Hartshorn, M.J., Mimmack, M.M., Gileadi, U., Pearce, S.R., Gallagher, M.P., Gill, D.R., Hubbard, R.E. dan Higgins, C.F., 1990. Structural model of ATP-binding proteing associated with cystic fibrosis, multidrug resistance dan bacterial transport. *Nature*, 346(6282), pp.362-365.
- Kamiyama, N., Takagi, S., Yamamoto, C., Kudo, T., Nakagawa, T., Takahashi, M., Nakanishi, K., Takahashi, H., Todo, S. Dan Iseki, K., 2006. Expression of ABC transporters in human hepatocyte carcinoma cells with cross-resistance to epirubicin dan mitoxantrone. *AntiCancer Res.*, 26(2A), pp.885-888.
- Kanzaki, A., Toi, M., Nakayama, K., Bdano, H., Mutoh, M., Uchida, T., Fukumoto, M. dan Takebayashi, Y., 2001. Expression of multidrug resistance-related transporters in human breast carcinoma. *Cancer Sci.*, 92(4), pp.452-458.
- Kasza, I., Várady, G., Andrikovics, H., Koszarska, M., Tordai, A., Scheffer, G.L., Németh, A., Szakács, G. and Sarkadi, B., 2012. Expression levels of the ABCG2 multidrug transporter in human erythrocytes correspond to pharmacologically relevant genetic variations. *PLoS One*, 7(11), p.e48423.
- Kobayashi, D., Ieiri, I., Hirota, T., Takane, H., Maegawa, S., Kigawa, J., Suzuki, H., Nanba, E., Oshimura, M., Terakawa, N. and Otsubo, K., 2005. Functional assessment of ABCG2 (BCRP) gene polymorphisms to protein expression in human placenta. *Drug Metab Dispos*, 33(1), pp.94-101.
- Korenaga, Y., Naito, K., Okayama, N., Hirata, H., Suehiro, Y., Hamanaka, Y., Matsuyama, H. and Hinoda, Y., 2005. Association of the BCRP C421A



- polymorphism with nonpapillary renal cell carcinoma. *Int j cancer*, 117(3), pp.431-434.
- Kitamura, S., Maeda, K., Wang, Y. dan Sugiyama, Y., 2008. Involvement of multiple transporters in the hepatobiliary transport of rosuvastatin. *Drug. Metab. Dispos.*, 36(10), pp.2014-2023.
- Lepper, E.R., Nooter, K., Verweij, J., Acharya, M.R., Figg, W.D. dan Sparreboom, A., 2005. Mechanisms of resistance to anticancer drugs: the role of the polymorphic ABC transporters ABCB1 and ABCG2. *Pharmacogenomics*, 6(2), pp.115-138.
- Li, W., Zhang, D., Du, F., Xing, X., Wu, Y., Xiao, D., Liang, M., Fan, Z., Zhao, P., Liu, T. and Li, G., 2017. ABCB1 3435TT and ABCG2 421CC genotypes were significantly associated with longer progression-free survival in Chinese breast cancer patients. *Oncotarget*, 8(67), p.111041.
- Locher, K.P., Lee, A.T. dan Rees, D.C., 2002. The E. coli BtuCD structure: a framework for ABC transporter architecture dan mechanism. *Science*, 296(5570), pp.1091-1098.
- Marchbanks, P.A., Wilson, H., Bastos, E., Cramer, D.W., Schildkraut, J.M. dan Peterson, H.B., 2000. Cigarette smoking dan epithelial ovarian cancer by histologic type. *Obstet. Gynecol.*, 95(2), pp.255-260.
- Maliepaard, M., van Gastelen, M.A., de Jong, L.A., Pluim, D., van Waardenburg, R.C., Ruevekamp-Helmers, M.C., Floot, B.G. dan Schellens, J.H., 1999. Overexpression of the BCRP/MXR/ABCP gene in a topotecan-selected ovarian tumor cell line. *Cancer Res.*, 59(18), pp.4559-4563.
- McCarthy, M.I., 2010. Genomics, type 2 diabetes, dan obesity. *New Engl J Med.*, 363(24), pp.2339-2350.
- McLemore, M.R., Miaskowski, C., Aouizerat, B.E., Chen, L.M. dan Dodd, M.J., 2009. Epidemiologic dan genetic factors associated with ovarian cancer. *Cancer nurs*, 32(4), p.281.
- Medscape. 2016. *Ovarian Cancer Staging*. Diakses pada tanggal 24 September 2017. <http://emedicine.medscape.com/article/2007140-overview>
- Miyake, K., Mickley, L., Litman, T., Zhan, Z., Robey, R., Cristensen, B., Brangi, M., Greenberger, L., Dean, M., Fojo, T. dan Bates, S.E., 1999. Molecular cloning of cDNAs which are highly overexpressed in mitoxantrone-resistant cells. *Cancer Res.*, 59(1), pp.8-13.



- Mo, W., Liu, J.Y. dan Zhang, J.T., 2012. Biochemistry dan pharmacology of human ABCG2/MRP1 dan its role in detoxification dan in multidrug resistance of cancer chemotherapy. *Recent advances in Cancer Res. dan therapy. Elsevier, Amsterdam, The Netherlands*, pp.371-404.
- Mo, W. dan Zhang, J.T., 2012. Human ABCG2: structure, function, dan its role in multidrug resistance. *Int J Biochem Mol B*, 3(1), p.1.
- Modugno, F., Ness, R.B. dan Cottreau, C.M., 2002. Cigarette smoking dan the risk of mucinous dan nonmucinous epithelial ovarian cancer. *Epidemiology*, 13(4), pp.467-471.
- Mohle, J., Whittemore, A., Pike, M. dan Darby, S., 1985. Gonadotrophins dan ovarian cancer risk. *J Natl Cancer Inst.* 1985 Jul;75(1):178-80
- Nagashima, S., Soda, H., Oka, M., Kitazaki, T., Shiozawa, K., Nakamura, Y., Takemura, M., Yabuuchi, H., Fukuda, M., Tsukamoto, K. dan Kohno, S., 2006. BCRP/ABCG2 levels account for the resistance to topoisomerase I inhibitors dan reversal effects by gefitinib in non-small cell lung cancer. *Cancer Chemoth Pharm*, 58(5), pp.594-600.
- Natarajan, K., Xie, Y., Baer, M.R. dan Ross, D.D., 2012. Role of breast cancer resistance protein (BCRP/ABCG2) in cancer drug resistance. *Biochem Pharmacol*, 83(8), pp.1084-1103.
- National Comprehensive Cancer Network, 2010. NCCN Clinical Practice Guidelines in Oncology: Ovarian Cancer Including Fallopian Tube Cancer dan Primary Peritoneal Cancer, version 3. 2012. *Database online*.
- Ness, R.B. dan Cottreau, C., 1999. Possible role of ovarian epithelial inflammation in ovarian cancer. *J Natl Cancer Inst.*, 91(17), pp.1459-1467.
- Nhs.uk. (2017, Januari 30). *Treatments for ovarian cancer*. Diakses pada tanggal 24 Februari 2017. <http://www.nhs.uk/Conditions/Cancer-of-the-ovary/Pages/Treatment.aspx>
- Nurkholis. (2017, Juni 16). *Macam-Macam Ras di Indonesia Beserta Ciri-Cirinya – MateriIPS.com*. Diakses pada tanggal 2 Februari 2018. <https://materiips.com/macam-macam-ras-di-indonesia>
- Piel, F.B., Patil, A.P., Howes, R.E., Nyangiri, O.A., Gething, P.W., Williams, T.N., Weatherall, D.J. dan Hay, S.I., 2010. Global distribution of the sickle cell gene dan geographical confirmation of the malaria hypothesis. *Nat Commun*, 1, p.104.



- Pike, M.C., Pearce, C.L., Peters, R., Cozen, W., Wan, P. dan Wu, A.H., 2004. Hormonal factors dan the risk of invasive ovarian cancer: a population-based case-control study. *Fertil Steril*, 82(1), pp.186-195.
- Pusat Data dan Informasi Kementerian Kesehatan RI (2015). *Situasi Penyakit Kanker*. Diakses pada tanggal 24 Februari 2017. <http://www.depkes.go.id/download.php?file=download/pusdatin/buletin/buletin-kanker.pdf>
- Rosenberg, L., Palmer, J.R., Rao, R.S., Coogan, P.F., Strom, B.L., Zauber, A.G., Stolley, P.D. dan Shapiro, S., 2000. A case-control study of analgesic use dan ovarian cancer. *Cancer Epidem Biomar*, 9(9), pp.933-937.
- Sane, R., Wu, S.P., Zhang, R. and Gallo, J.M., 2014. The effect of ABCG2 and ABCC4 on the pharmacokinetics of methotrexate in the brain. *Drug Metab Dispos*, 42(4), pp.537-540.
- Schneider, E. dan Hunke, S., 1998. ATP-binding-cassette (ABC) transport systems: functional dan structural aspects of the ATP-hydrolyzing subunits/domains. *FEMS microbiology rev*, 22(1), pp.1-20.
- Shafi, M.I., Earl, H.M. dan Tan, L.T. eds., 2009. *Gynaecol Oncol*. Cambridge University Press.
- Sihombing, M. dan Sirait, A.M., 2011. Survival Rate of Ovarium Cancer in Dr. Cipto Mangunkusumo Hospital, Jakarta. *J Indonesian Med Assoc*, 57(10).
- Skates, S.J., 2012. OCS: Development of the Risk of Ovarian Cancer Algorithm (ROCA) dan ROCA screening trials. *Int J Gynecol Cancer: official journal of the International Gynecol Canc Soc*, 22(Suppl 1), p.S24.
- Smith, E.R. dan Xu, X.X., 2008. Ovarian ageing, follicle depletion, dan cancer: a hypothesis for the aetiology of epithelial ovarian cancer involving follicle depletion. *Lancet Oncol*, 9(11), pp.1108-1111.
- Staud, F. dan Pavsek, P., 2005. Breast cancer resistance protein (BCRP/ABCG2). *Int J Biochem Cell B.*, 37(4), pp.720-725.
- Takao, T., Kumagai, C., Hisakawa, N., Matsumoto, R. dan Hashimoto, K., 2005. Effect of 17 $\beta$ -estradiol on tumor necrosis factor- $\alpha$ -induced cytotoxicity in the human peripheral T lymphocytes. *J Endocrinol*, 184(1), pp.191-197.
- Tian, C., Ambrosone, C.B., Darcy, K.M., Krivak, T.C., Armstrong, D.K., Bookman, M.A., Davis, W., Zhao, H., Moysich, K., Gallion, H. dan DeLoia, J.A., 2012. Common variants in ABCB1, ABCC2 dan ABCG2 genes dan clinical outcomes among women with advanced stage ovarian



- cancer treated with platinum dan taxane-based chemotherapy: a Gynecologic Oncology Group study. *Gynecol Oncol*, 124(3), pp.575-581.
- Tecza, K., Pamula-Pilat, J., Kolosza, Z., Radlak, N. and Grzybowska, E., 2015. Genetic polymorphisms and gene-dosage effect in ovarian cancer risk and response to paclitaxel/cisplatin chemotherapy. *Journal of Experimental & Clin Canc Res*, 34(1), p.2.
- Turner, J.G., Gump, J.L., Zhang, C., Cook, J.M., Marchion, D., Hazlehurst, L., Munster, P., Schell, M.J., Dalton, W.S. dan Sullivan, D.M., 2006. ABCG2 expression, function, dan promoter methylation in human multiple myeloma. *Blood*, 108(12), pp.3881-3889.
- Van der Heijden, J., De Jong, M.C., Dijkmans, B.A.C., Lems, W.F., Oerlemans, R., Kathmann, I., Schalkwijk, C.G., Scheffer, G.L., Scheper, R.J. dan Jansen, G., 2004. Development of sulfasalazine resistance in human T cells induces expression of the multidrug resistance transporter ABCG2 (BCRP) dan augmented production of TNF $\alpha$ . *Ann Rheum Dis*, 63(2), pp.138-143.
- Vercellini, P., Crosignani, P., Somigliana, E., Viganò, P., Buggio, L., Bolis, G. dan Fedele, L., 2011. The 'incessant menstruation' hypothesis: a mechanistic ovarian cancer model with implications for prevention. *Hum Reprod*, p.der211.
- Wang, X., Nitdana, T., Shi, M., Okamoto, M., Furukawa, T., Sugimoto, Y., Akiyama, S.I. dan Baba, M., 2004. Induction of cellular resistance to nucleoside reverse transcriptase inhibitors by the wild-type breast cancer resistance protein. *Biochem Pharm*, 68(7), pp.1363-1370.
- Wu, H., Liu, Y., Kang, H., Xiao, Q., Yao, W., Zhao, H., Wang, E. and Wei, M., 2015. Genetic variations in ABCG2 gene predict breast carcinoma susceptibility and clinical outcomes after treatment with anthracycline-based chemotherapy. *BioMed res int*, 2015.
- Xu, H., Hong, F.Z., Li, S., Zhang, P. dan Zhu, L., 2012. Short hairpin RNA-mediated MDR1 gene silencing increases apoptosis of human ovarian cancer cell line A2780/Taxol. *Chin J Cancer Res*, 24(2), pp.138-142.
- Xu, J., Liu, Y., Yang, Y., Bates, S. dan Zhang, J.T., 2004. Characterization of oligomeric human half-ABC transporter ATP-binding cassette G2. *J Biol Chem*, 279(19), pp.19781-19789.
- Yanase, K., Tsukahara, S., Mitsuhashi, J. dan Sugimoto, Y., 2006. Functional SNPs of the breast cancer resistance protein  $\square$  therapeutic effects dan inhibitor development. *Cancer Lett*, 234(1), pp.73-80.



Yang, X., Singh, A., Choy, E., Hornicek, F.J., Amiji, M.M. dan Duan, Z., 2015. MDR1 siRNA loaded hyaluronic acid-based CD44 targeted nanoparticle systems circumvent paclitaxel resistance in ovarian cancer. *Sci Rep-UK*, 5, p.8509.