

- Antequera, F. dan Bird A. 1993. *Number of CpG Islands and Genes in Human and Mouse*. PNAS 90; 11995–11999.
- Aryandono, T. 1999. *Perkembangan Mutakhir Penatalaksanaan Kanker Payudara*. Makalah Seminar Kursus Penyegar Perkembangan Mutakhir Penatalaksanaan Penyakit Kanker Payudara. Yogyakarta.
- Baylin, S.B, Herman JG, Graff JR, Vertino PM & Issa JP. 1998. *Alterations in DNA Methylation: A Fundamental Aspect of Neoplasia*. Advances in Cancer Research 72 141–196.
- Baylin, S.B, Esteller M., Rountree M.R., Bachman KE, Schuebel K & Herman JG. 2001. *Aberrant Patterns of DNA Methylation, Chromatin Formation and Gene Expression in Cancer*. Human Molecular Genetics 10; 687–692.
- Baylin, S.B. 1997. *Tying it all together: Epigenetics, Genetics, Cell Cycle, and Cancer*. Science 277:1948–1949.
- Bestor TH & Verdine GL. 1994. *DNA Methyltransferases*. Current Opinion in Cell Biology 6; 380–389.
- Bird A.P. 1980. *DNA Methylation and the Frequency of CpG in Animal DNA*. Nucleic Acids Research 8; 1499–1504.
- Bird AP. 1995. *Gene Number, Noise Reduction and Biological Complexity*. Trends in Genetics 11; 94–100.
- Bos, V., A.E. Kunst, I.M. Keij-Deerenberg, J. Garssen, J.P. Mackenbach. 2004. *Ethnic inequalities in age and cause-specific mortality in The Netherlands*. International Journal of Epidemiology 33:1–8
- Bundred, NJ. 2001. *Prognostic and predictive factors in breast cancer*. Cancer Treat Rev 27 : 137–142
- Catteau, A., Harris WH, Xu C.F., Solomon E. 1999. *Methylation of the BRCA1 Promoter Region in Sporadic Breast and Ovarian Cancer: Correlation with Disease Characteristics*. Oncogene 18; 1957–1965.
- Chan, M.F., Liang G & Jones PA. 2000. *Relationship Between Transcription and DNA Methylation*. Current Topics in Microbiology and Immunology 249; 75–86.
- Clemons, M., et al., 2001. *Estrogen and the risk of Breast Cancer*. N Engl J Med 344: 276
- Cross, S.H. dan Bird AP. 1995. *CpG Islands and Genes*. Current Opinion in Genetics and Development 5; 309–314.
- Esteller, M., Silva, J.M., Dominguez, G., Bonilla, F., Matias-Guiu, X., Lerma, E., Bussaglia, E., Prat, J.,



- Hankes, L.C., Repasky, E.A., Gabrielson, E., Schutte, M., Baylin, S.B., Herman, J.G., 2000. *Promoter hypermethylation and BRCA1 inactivation in sporadic breast and ovarian tumors*. Journal of National Cancer Institute 92; 564–569.
- Feinberg A.P. 2001. *Cancer Epigenetics Takes Center Stage*. PNAS 98; 392–394.
- Forne T, Oswald J, Dean W, Saam JR, Bailleul B, Dandolo L, Tilghman SM, Walter J & Reik W. 1997. *Loss of the Maternal H19 Gene Induces Changes in Igf2 Methylation in both Cis and Trans*. PNAS 94; 10243–10248.
- Fowble, B., Hanlon A., Freedman G., Nicolaou N., Anderson P. 2001. *Second Cancer After Conservative Surgery and Radiation for Stage I-II Breast Cancer: Identifying a Subset of Women at Increased Risk*. Int. J. Radiat. Oncol Biol Phys 51:679–90.
- Friedman LS, Ostermeyer EA, Szabo CI, Dowd P, Lynch ED, Rowell SE & King MC. 1994. *Confirmation of BRCA1 by Analysis of Germline Mutations Linked to Breast and Ovarian Cancer in Ten Families*. Nature Genetics 8; 399–404.
- Garcia, J.M., J. Silvia, C. Pena, V. Garcia, R. Rodrigues, M.A. Cruz, et al. 2004. *Promoter methylation of the PTEN gene is a common molecular change in breast cancer*. Gene Chromosome Cancer 4; 117–124.
- Gradishar, W.J., 2002. Social Therapeutic Problems in: Harris, J.R, M.E. Lippman, M. Morrow, C.K. Osborn (ed.). *Disease of Breast*, 2<sup>nd</sup> ed. p661–667. Philadelphia: Lippincott William & Wilkin.
- Hafidz as Shidieq, Firdaus. 2006. *Profil Pasien Kanker Payudara di RS Sardjito Periode 2003–2004*. Yogyakarta: Fakultas Kedokteran Universitas Gadjah Mada.
- Heard E dan Avner P. 1994. *Role Play in X-inactivation*. Human Molecular Genetics 3; 1481–1485.
- Heard E, Clerc P & Avner P. 1997. *X-Chromosome Inactivation in Mammals*. Annual Review of Genetics 31; 571–610.
- Jemal, A., T. Murray, A. Samuels, A. Ghafoor, E. Ward, M.J. Thun. 2003. *Cancer Statistic, 2003*. CA Cancer J. Clin 53: 5–26.
- Jemal, A et al. 2007. *Cancer Statistics, 2007*. CA Cancer J Clin. Jan–Feb; 57(1):43–66.
- Jones, P.A., Baylin SB. 2002. *The Fundamental Role of Epigenetic Events in Cancer*. Nat Rev Genet 3:415–428.
- Laird, P.W. 2003. *The Power and The Promise of DNA Methylation Markers*. Nat Rev Cancer 3:253–266.
- Li, E., Beard C, Forster AC, Bestor TH & Jaenisch R. 1993. *DNA Methylation, Genomic Imprinting, and Mammalian*



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**Hubungan antara Metilasi BRCA1 dengan Gambaran Klinikopatologis Karsinoma Duktal Infiltratif Payudara**

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- Development. Cold Spring Harbor Symposia on Quantitative Biology (58); 297-305.
- Li, S.Y., Rong M., Iacopetta B. 2005. *DNA Hypermethylation in Breast Cancer and Its Association with Clinicopathological Features*. Cancer Letter xx;1-9.
- Magdinier F, Billard LM, Wittmann G, Frappart L, Benchaib M, Lenoir GM, Guerin JF & Dante R. 2000. *Regional Methylation of the 5' End CpG Island of BRCA1 is Associated with Reduced Gene Expression in Human Somatic Cells*. FASEB Journal 14; 1585-1594.
- Mirza, S., Gayatri S., Chandra P., Rajinder P., Anurag S., Siddharta D.P., Ranju R. 2007. *Promoter Hypermethylation of TMS1, BRCA1, ERα, and PRB in serum and Tumor DNA of Invasive Ductal Breast Carcinoma Patients*. Life Sciences 81; 280-287.
- Moningkey, S. 2000. *Epidemiologi Kanker Payudara dan Pengendaliannya*. Medika th. XXVI, 5, 326-9.
- Muller K, Heller H & Doerfler W. 2001. *Foreign DNA Integration: Genome-Wide Perturbations of Methylation and Transcription in the Recipient Genomes*. Journal of Biological Chemistry 276; 14271-14278.
- Narod, SA et al. 2005. *Prevention and Management Of Hereditary Breast Cancer*. J Clin Oncol. Mar 10;23(8):1656-63.
- Ouchi, T, Lee SW, Ouchi M, Aaronson SA and Horvath CM. 2000. *Collaboration of signal transducer and activator of transcription 1 (STAT1) and BRCA1 in differential regulation of IFN-gamma target genes*. Proc Natl Acad Sci USA 97: 5208-5213.
- Parkin, D.M., F.Brady, J. Ferlay, P.Pisani. 2001. *Estimating the World Cancer Burden: Globocan 2000*. J.Cancer 94 : 153-156.
- Partha M. Das and Rakesh Singal. 2004. *DNA Methylation and Cancer*. J Clin Oncol 22:4632-4642.
- Purnomosari, D., 2006. *Molecular Analysis of Early Onset Indonesian Breast Cancer*. ISBN-10:90-393-4390-X.
- Purnomosari, D., Ameziane N, Wahyono A., Aryandono T., Meijer GA., Pals G, Van Diest PJ. 2005. *High Throughput Analysis of Promoter Hypermethylation Status of 22 Tumor Suppressor Genes in Invasive Breast Cancer*.
- Purnomosari, D., van der Groep P, Wahyono A., Aryandono T., Pals G., van Diest PJ. 2005. *Histopathological features of early onset Indonesian breast cancer pointing to BRCA1/2 germline mutations*. Molecular Analysis of Early Onset Indonesian Breast Cancer. ISBN-10:90-393-4390-X.



- Rebbeck, T.R. et al. 2004. *Bilateral prophylactic mastectomy reduces breast cancer risk in BRCA1 and BRCA2 mutation carriers: the PROSE Study Group*. J Clin Oncol. Mar 15;22(6):1055-62.
- Reik, W. dan Walter, J. 1998. *Imprinting Mechanisms in Mammals*. Current Opinion in Genetics and Development 8; 154-164.
- Russo, J., Hu, Y.f., Yang, X. , Russo, I.H. 2000. *Developmental, Cellular, and Molecular Basis of Human Breast Cancer*. J. natl. Cancer Inst; Monograph. 27:17-37.
- Schmutte C & Jones PA. 1998. *Involvement of DNA Methylation in Human Carcinogenesis*. Biological Chemistry 379; 377-388.
- Seouw, A., S.W. Duffy, M.A. Gee, J. Lee, H.P. Lee. 1996. *Breast Cancer In Singapore, Trends in Incidence 1962-1992*. Int. J. of Epid., 25 (1), 40-5.
- Shao, N, Chai YL, Shyam E, Reddy P and Rao VN. 1996. *Induction of apoptosis by the tumor suppressor protein BRCA1*. Oncogene 13: 1-7.
- Smigal, C., Ahmedin Jemal, E. Ward, V.Cokkinides, R.Smith, H.L. Howe and M. Thun. 2006. *Trends in Breast Cancer by Race and Ethnicity: Update 2006*. CA Cancer J Clin 56;168-183.
- Szyf, M., P. Pakneshan, S.A. Rabbani. 2004. *DNA Methylation and Breast Cancer*. Biochem. Pharmacol.;1187-1197.
- Tierney, L.M., McPhee, S.J., Papadakis, M.A. (Eds)., 2005. *Current Medical Diagnosis & Treatment*. Lange
- Tjindarbumi, D., R. Mangunkusumo. 2002. *Cancer in Indonesia, Present and Future*. Jpn J Clin Oncol. 32 (Supplement 1); S17-S21.
- Toyota, M., n. Ahuja. M. Ohe-Toyota, J.G. Herman, S.B. Baylin, J.P. Issa,. 1999. *CpG Island Methylation Phenotype in Colorectal Cancer.I Proc. Natl. Acad. Sci. USA 96; 8681-8686*
- Tremblay KD, Saam JR, Ingram RS, Tilghman SM & Bartolomei MS. 1995. *A Paternal-Specific Methylation Imprint Marks the Alleles of the Mouse H19 Gene*. Nature Genetics 9;407-413.
- Van Rijnsoever, M. F. Grieu, H. Elsaleh, D. Joseph, B. Iacopetta. 2002. *Characterization of Colorectal Cancer Showing Hypermethylation at Multiple CpG Island*. Gut 51;797-802.
- Vanyushin BF, Tkacheva SG & Belozersky AN. 1970. *Rare Bases in Animal DNA*. Nature 225; 948-949.
- Wei, M., Tatyana A. Grushko, James Dignam, Fitsum Hagos, Rita Nanda, Lise Sveen, Jinhua Xu, James Fackenthal,



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## Payudara

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- Maria Tretliakova, Soma Das, and Olufunmilayo I. Olopade. 2005. *BRCA1 Promoter Methylation in Sporadic Breast Cancer Is Associated with Reduced BRCA1 Copy Number and Chromosome 17 Aneusomy*. Cancer Res 65(23): 10692-9)
- Weiss, A & Cedar H. 1997. *The Role of DNA Demethylation During Development*. Genes and Cells (2); 481-486.
- Widschwendter M, Jones PA. 2002. *DNA methylation and breast carcinogenesis*. Oncogene 21:5462-5482.
- Xu, C.F., Brown, M.A., Chambers, J.A., Griffiths, B., Nicolai, H., Solomon, E.,. 1995. Distinct transcription start sites generate two forms of *BRCA1* mRNA. Human Molecular Genetics 4; 2259-2264.
- Yan, P.S., M.R. Perry, D.E. Laux, A.L. Asare, C.W. Caldwell, T.H. Huang. 2000. *CpG Island Arrays: An Application Toward Deciphering Epigenetic Signatures of Breast Cancer*. Clin. Cancer Res. 6; 1432-1438.
- Yang, X., L. Yan and Davidson N.E. 2001. *DNA Methylation in Breast Cancer*. Endocrine-related Cancer 8 : 115-127
- Zhang H, Somasundaram K, Peng Y, Tian H, Bi D, Weber BL dan E1-Deiry WS. 1998. *BRCA1 physically associates with p53 and stimulates its transcriptional activity*. Oncogene 16: 1713-1721.