

DAFTAR PUSTAKA

- Agustanti, L., 2008, Potensi Daun Sirih Merah (*Piper Crocatum*) sebagai Aktivator Enzim Glukosa Oksidase, *Skripsi*, Institut Pertanian Bogor, Bogor.
- Anonim, 2014, World Health Ranking, <http://www.worldlifeexpectancy.com/indonesia-breast-cancer>, 7 Desember 2014.
- Bao, L., Haque, A., Jackson, K., Hazari, S., Moroz, K., Jetly, R., dkk., 2011. Increased Expression of P-Glycoprotein Is Associated with Doxorubicin Chemoresistance in the Metastatic 4T1 Breast Cancer Model. *The American Journal of Pathology*, 178: 838–852.
- Bailly, M. dan Condeelis, J., 2002, Cell Motility: Insights from the Backstage, *Nat. Cell Biol.*, 4 E292–E294.
- Bhargava, R., Beriwal, S., Dabbs, D.J., Ozbek, U., Soran, A., Johnson, R.R., Brufsky, A.M., Lembersky, B.C. dan Ahrendt, G.M., 2010, Immunohistochemical Surrogate Markers of Breast Cancer Molecular Classes Predict Response to Neoadjuvant Chemotherapy: a Single Institutional Experience with 359 Cases, *Cancer*, 116:1431–1439
- Bauer, K.R., Brown, M. dan Cress, R.D., 2007, Descriptive Analysis of Estrogen Receptor Negative, Progesterone Receptor Negative and HER2 Negative Invasive Breast Cancer the so Called Triple Negative

Phenotype: a Population Based Study from California Cancer Registry,
Cancer, 109:1721–1728.

Bozzuto, G., Ruggieri, P. dan Molinari, A., 2010, Molecular Aspects of Tumor
Cell Migration and Invasion, *Ann Ist Super Sanita*, 46, 1 : 66-80.

Chambers, A.F., Groom, A.C. dan MacDonald, I.C., 2002, Dissemination And
Growth of Cancer Cells in Metastatic Sites, *Nat Rev Cancer*, 2:563-572.

Condeelis, J. dan Segall, J.E., 2003, Intravital Imaging of Cell Movement in
Tumours, *Nat. Rev. Cancer*, 3 921–930.

DesMarais, V., Ghosh, M., Eddy, R. dan Condeelis, J., 2005, Cofilin Takes the
Lead, *J. Cell Sci.*, 118:19-26.

Dollinsky, C., 2002, Breast Cancer: The Basic, Abramson Cancer Center of
The University of Pennsylvania,
<http://www.oncolink.org/types/article.cfm?c=3&id=8320>, 7 Desember
2014.

Doyle, A., dan Griffiths, J.B., 2000, Cell and Tissue Culture for Medical
Research, Jhon Willey and Sons Ltd, New York.

Duryatmo, S., 2005, Dulu Hiasan Kini Obat, *Trubus*, 427: 37.

Eccles, S.A., 2013, Critical Research Gaps and Translational Priorities for the
Successful Prevention and Treatment of Breast Cancer, *Breast Cancer
Research*, 15: R92.

Eckhardt, B.L., Parker, B.S., van Laar, R.K., Restall, C.M., Natoli, A.L.,
Tavaria, M.D., Stanley, K.L., Sloan, E.K., Moseley, J.M. dan Anderson,
R.L., 2005, Genomic Analysis of a Spontaneous Model of Breast Cancer

Metastasis to Bone Reveal a Role of the Extracellular Matrix, *Mol. Cancer Res.*, 3(1): 1-13.

Fitriyani, A., Winarti, L., Muslichah, S. dan Nuri, 2011, Uji Anti Inflamasi Ekstrak Metanol Daun Sirih Merah (*Piper Crocatum* Ruiz & Pav) pada Tikus Putih, *Majalah Obat Tradisional*, 16 (1): 34-42.

Friedl, P., Hegerfeldt, Y. dan Tusch, M., 2004, Collective Cell Migration In Morphogenesis and Cancer, *Int. J. Dev. Biol.*, 48, 441-449.

Gao, Z.G., Tian, L. dan Hu, J., 2011, Prevention Of Metastasis In a 4T1 Murine Breast Cancer Model By Doxorubicin Carried By Folate Conjugated Ph Sensitive Polymeric Micelles, *J. Control Release*, (2), 2.

Geho, D.H., Bandle, R.W., Clair, T., dan Liotta, L.A., 2005, Physiological Mechanisms of Tumor-Cell Invasion and Migration, *Physiology*, 20: 194– 200.

Geiger, T.R. dan Peeper, D.S., 2009, Metastasis Mechanism, *Biochimica and Biophysica Acta*, 1796: 293-308.

Graf, A.B., 1992, *Tropica, Color Cyclopediao of Exotic Plants and Trees*, Edisi keempat, Rhoers Company-Publishers East Rutherford NJ., 07073, 822, U.S.A.

Gonzalez, A.J., 2005, Beginner's Guide to Genetics: Cancer Genetics, *Studentbmj*, 13: 52-53.

Hanahan, D., dan Weinberg, R., A., 2011, The Hallmark of Cancer, *Cell*, 100, 57-70.

- Harborne, J.B., 1996, *Metode Fitokimia Penuntun Cara Modern Menganalisis Tumbuhan*, diterjemahkan oleh Iwang Soediro dan Kosasih Padmawinata, Edisi kedua, 47-49, 70, 123-126, Penerbit ITB, Bandung.
- Hartini, Y. S., Wahyuono, S., Widyarini, S. dan Yuswanto, A. G., 2013, Aktivitas Fagositosis Makrofag Fraksi dari Ekstrak Metanol Daun Sirih Merah (*Piper crocatum* Ruiz & Pav) secara *In Vitro*, *Jurnal Ilmu Kefarmasian Indonesia*, 11 : 2.
- Hartini, Y. S., Wahyuono, S., Widyarini, S. dan Yuswanto, A. G., 2014, In vivo Immunomodulatory Effect and Histopathological Features of Mouse Liver and Kidney Treated with Neolignans Isolated from Red Betel (*Piper crocatum* Ruiz & Pav) Leaf, *Tropical Journal of Pharmaceutical Research*, 13 (10): 1609-1614.
- Huang, C., Jacobson, K. dan Schaller, M.D., 2004, MAP Kinase and Cell Migration, *Journal of Cell Science*, 117, 4619 – 4628.
- Huang, Y.T., Lee, L.T., Lee, H.P., Lin, Y.S. dan Lee, M.T., 2005, Targeting of Focal Adhesion Kinase by Flavonoids and Small-interfering RNAs Reduces Tumor Cell Migration Ability, *Anticancer Research*, 25: 2017-2026.
- IARC, 2013, Latest World Cancer Statistics Global Cancer Burden Rises To 14.1 Million New Cases In 2012: Marked Increase In Breast Cancers Must Be Addressed, http://www.iarc.fr/en/media-centre/pr/2013/pdfs/pr223_E.pdf, 12 Maret 2015.

Indri, W.W., Anthoni, M.S.S. dan Setyorini, W., 2008, Sirih Merah, Balai

Kajian Teknologi Pertanian Yogyakarta, Yogyakarta.

Kuo, H.P., Chuang, T.C., Tsai, S.C., Tseng, H.H., Hsu, S.C., Chen, Y.C., Kuo,

C.L., Kuo, Y.H., Liu, J.Y. dan Kao, M.C., 2012, Berberine, an

Isoquinolin Alkaloid, Inhibits the Metastatic Potensial of Breast Cancer

Cells Via Akt Pathway Modulation, *J. Agric. Food Chem.*, 60, 9649

–9658.

Lai, L.H., Fu, Q.H., Liu, Y., Jiang, K., Guo, Q.M., Chen, Q.Y., Yan, B., Wang,

Q.Q. dan Shen, J.G., 2012, Piperine suppress tumor growth and

metastasis *in vitro* and *in vivo* in a 4T1 murine breast cancer model,

Acta Pharmacologica Sinica, 33: 523–530.

Lee, Y. C.; Lin, H. H.; Hsu, C. H.; Wang, C. J.; Chiang, T. A. dan Chen,

J. H., 2010, Inhibitory effects of andrographolide on migration and

invasion in human non-small cell lung cancer A549 cells via down-

regulation of PI3K/Akt signaling pathway, *Eur. J. Pharmacol*, 632 (1

–3), 23–32.

Liotta, La., Kleinerman, J., Catanzaro, P. dan Rynbrandt, D., 1977,

Degradation of Basement Membrane by Murine Tumor Cells,

J. Natl. Cancer Inst., 58:1427-31 cit Bozzuto, G., Ruggieri, P. dan

Molinari, A., 2010, Molecular Aspects of Tumor Cell Migration and

Invasion, *Ann Ist Super Sanita*, 46, 1 : 66-80.

Liu, Q., Chen, X., Yang, G., Min, X. dan Deng, M., 2011, Apigenin Inhibits Cell Migration Through MAPK Pathways In Human Bladder Smooth Muscle Cells, *Biocell*, 35(3): 71-79.

Lodish, H., Arnold, B., Zipurzky, S.L., Matsudara, P., David, B., dan Darnell, J.E., 2000, Molecular Cell Biology, W.H. Freeman and Company London.

Ma, K.K., Chau, W.W., Wong, C.H., Wong, K., Fung, N., Lee, A.J., Choi, C.L., Suen, D.T. dan Kwong, A., 2012, Triple Negative Status Is A Poor Prognostic Indicator In Chinese Women With Breast Cancer: A Ten Year Review, *Asian Pac J Cancer Prev*, 13:2109–2114.

Mabry, T.J., Markham, K.R., dan Thomas, M.B., 1970, The Systematic Identification of Flavonoids, *Springer-Verlag*, 12-13, 35-40, 81, New York.

Maliya, A., 2004, Perubahan Sel menjadi Kanker dari Sudut Pandang Biologi Molekuler, *Infokes*, Vol.8 No.1.

Manoi, F., 2007, Sirih Merah sebagai Tanaman Obat Multifungsi, *Warta Puslitbangbun*, 13: 1- 2.

Markham, K.R., 1988, Cara Mengidentifikasi Flavonoid, diterjemahkan oleh Padmawijaya, K., 15, 30-32, Penerbit ITB, Bandung.

McLellan, L.I., Judah, D.J., Neal, G.E. dan Hayes, J.D., 1994, Regulation of Aflatoxin B1-metabolizing Aldehyde Reductase and Glutathione S-Transferase by Chemoprotectors, *Biochem J*, 300: 117-224.

- Mehta, R.R., dkk., 2013, Efficacy And Mechanism of Action of Deguelin In Suppressing Metastasis of 4T1 Cells, *Clin Exp Metastasis*, 30:855-866.
- Middleton, E., Kandaswami, Jr.C. dan Theoharides, T.C., 2000, The Effects of Plant Flavonoids on Mammalian Cells: Implications For Inflammation, Heart Disease and Cancer, *Pharmacol Rev*, 52:673–751.
- Mosmann, T., 1983, Rapid Colorimetric Assay for Cellular Growth and Survival: Application to Proliferation and Cytotoxicity Assay, *J. Immunol Methods*, 65 (1-2): 55-63.
- Nabende, P.N., Karanja, S.M., Mwatha, J.K. dan Wachira, S.W., 2015, Anti-proliferative Activity of *Prunus africana*, *Warburgia stuhlmannii* and *Maytenus senegalensis* Extract in Breast and Colon Cancer Cell Lines, *European Journal of Medicinal Plants*, 5(4): 366-376.
- Nicholson, S., Dykstra, Higgs H.N. dan Harris E.S., 2005, Actin Dynamics: Growth from Dendritic Branches, *Curr. Biol.*, 15 R346–R357.
- Piantelli, M., Rossi, C., Iezzi, M., Sorda, R. L., Iacobelli, S., Alberti, S. dan Natali, P.G., 2006, Flavonoids Inhibit Melanoma Lung Metastasis by Impairing Tumor Cells Endothelium Interactions, *Journal of Cellular Physiology*, 207:23-29.
- Pollard, T.D. dan Borisy, G.G., 2003, Cellular Motility Driven By Assembly and Disassembly of Actin Filaments, *Cell*, 112:453-465.
- Pusztai, L., Lewis, C.E., dan Yap, E., 1996, *Cell Proliferation in Cancer Regulatory Mechanisms of Neoplastic Cell Growth*, Oxford University Press Inc., New York.

Rahardja, K., dan Tjay, T.H., 2002, *Obat-obat Penting Khasiat, Penggunaan dan Efek-Efek Sampingnya*, Edisi 5, PT. Elex Media Komputindo Kelompok Gramedia, Jakarta.

Radovanovic, A.M., Cupara, S.M., Popovic, S.Lj., Tomovic, M.T., Slavkovska, V.N. dan Jankovic, S.M., 2013, Cytotoxic Effect of *Potentilla reptans* L. Rhizome and Aerial Part Extracts, *Drug Research*, Vol.70 No.5 pp. 851 – 854.

Rutala, W.A., dan Weber, D.J., 2008, Guideline for disinfection and sterilization in healthcare facilities, Healthcare Infection Control Practices Advisory Committee (U.S.), Centers for Disease Control and Prevention, USA.

Seo J., Lee H.S., Ryoo S., Seo J.H., Min B.S. dan Lee J.H., 2011, Tangeretin, A Citrus Flavonoid, Inhibits PGDF-BB-Induced Proliferation and Migration of Aortic Smooth Muscle Cells By Blocking AKT Activation, *European Journal of Pharmacology*, 673: 56–64.

Sharma, R.A., 2000, Cancer Chemoprevention: A Clinical Reality, *J R Soc Med.*, 10, 518-520.

Sudewo, B., 2005, *Basmi Penyakit dengan Sirih Merah*, Agromedia Pustaka, Jakarta.

Sudewo, B., 2010, *Basmi Penyakit dengan Sirih Merah*, Revisi, 1-45, Agro Media Pustaka, Jakarta.

- Surh, Y.J., 1999, Molecular Mechanisms of Chemopreventive Effects Of Selected Dietary and Medicinal Phenolic Substances, *Mutat. Res.*, 428, 305-327.
- Tambunan, C., 2003, Terapi Baru Kanker Payudara, *Human Health*, **12**. 18-19.
- Wagner, H. dan Bladt, S., 1996, *Plant Drugs Analysis The Thin Layer Chromatography Atlas*, Edisi kedua, Springer-Verlag, Berlin.
- Walaszek, Z., Hanausek, M., dan Slaga, T.J., 2004, Mechanisms of Chemoprevention, *Suppl. Am. Coll. Phys.*, 125, 128-133.
- Wang, W., Goswami, S., Lapidus, K., Wells, A.L., Wyckoff, J.B., Sahai, E., Singer, R.H., Segall, J.E. dan Condeelis, J.S., 2004, Identification and Testing of A Gene Expression Signature of Invasive Carcinoma Cells Within Primary Mammary Tumors, *Cancer Res*, 64:8585-8594.
- Werdhany, I., Marton, A. dan Setyorini, W., 2008, *Sirih Merah*, Balai Pengkajian Teknologi Pertanian Yogyakarta, Yogyakarta.
- Wicaksono, B.D., Handoko, Y.A. dan Arung, T.E., 2009, Antiproliferative Effect of the Methanol Extract of *Piper crocatum* Ruiz & Pav Leaves on Human Breast (T47D) Cells Invitro, *Tropical Journal of Pharmaceutical Research*, August, 8 (4), 345-352.
- Wicaksono, F.M., Desie, S.P.S., Sekti, B.H., Sari, Y., Natalia, E., Lyrawati, D. dan Febriyanti, A.P., 2013, PIPERANTHA: Inovasi Terapi Kombinasi Ekstrak Daun Salam (*Eugenia polyantha*) Dan Sirih Merah (*Piper crocatum*) Terhadap Peningkatan Aktivitas Fas/Fas-L Pada Regresi Pertumbuhan Kanker Serviks Secara In Vitro, Prodising Elektronik

PIMNAS DITJEN DIKTI KEMDIKBUD RI:

<http://artikel.dikti.go.id/index.php/PKM-P/article/view/34/34>, 9

Januari 2015.

World Health Organization, 2008, The Global Burden of Disease 2004 Update, Geneva.

Wulandari, N., 2015, Peningkatan Efek Sitotoksik Kombinasi Doxorubicin dan Ekstrak Metanolik Daun Sirih Merah (*Piper crocatum* Ruiz & Pav) pada Sel Kanker Kolon WiDr Melalui Induksi Apoptosis *In Vitro*, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.

Xue, C., Wyckoff, J., Liang, F., Sidani, M., Violini, S., Tsai, K.L., Zhang, Z.Y., Sahai, E., Condeelis, J. dan Segall, J.E., 2006, Epidermal Growth Factor Receptor Overexpression Results In Increased Tumor Cell Motility In Vivo Coordinately With Enhanced Intravasation and Metastasis, *Cancer Res.*, 66 192–197.

Yamaguchi, H., dan Condeelis, J., 2007, Regulation of the Actin Cytoskeleton In Cancer Cell Migration and Invasion, *Biochimica et Biophysica Acta*, 1773 642 – 652.

Zwolak, P., Jasinski, P., Terai, K., dkk, 2008, Addition of Receptor Tyrosine Kinase Inhibitor to Radiation Increases Tumour Control In An Orthotopic Murine Model Of Breast Cancer Metastasis In Bone, *J Euro Cancer*, 44: 2506–2517.