

DAFTAR PUSTAKA

- Agarwal, K.C. and Parks, R.E., 1983, Forskolin: a potential antimetastatic agent. *International journal of cancer*, **32**(6), 801-804.
- Anonim, 2007, *Memfaatkan Pekarangan untuk Taman Obat Keluarga*, 28, AgroMedia, Jakarta.
- Anonim, 2008, *Buku Pintar Tanaman Obat: 431 Jenis Tanaman Penggempur Aneka Penyakit*, 242, AgroMedia, Jakarta.
- Anonim, 2009, Keputusan Menteri Kesehatan No. 261/SK/MENKES/IV/2009 tentang Farmakope Herbal Indonesia Edisi Pertama.
- Anonim, 2015, Panduan Penatalaksanaan Kanker Payudara, <http://www.kanker.kemkes.go.id/guidelines/PPKPayudara.pdf>, 12 Maret 2015.
- Anonim, 2017, Global Biodiversity Information Facility (GBIF), Backbone Taxonomy. [doi:10.15468/39omei](https://doi.org/10.15468/39omei), <http://www.gbif.org/species/2758487>, 12 Maret 2017.
- Ansari, L., Shiehzadeh, F., Taherzadeh, Z., Nikoofal-Sahlabadi, S., Momtazi-Borojeni, A.A., Sahebkar, A. & Eslami, S., 2017, The most prevalent side effects of pegylated liposomal doxorubicin monotherapy in women with metastatic breast cancer: a systematic review of clinical trials, *Cancer Gene Therapy*, **24**, 189-193.
- ASCO, 2014, *Side effect of Chemotherapy*, <http://www.cancer.net/navigating-cancer-care/how-cancer-treated/chemotherapy/side-effects-chemotherapy>, 11 Mei 2015.
- ATCC, 2017^a, *Metastatic Breast Cancer Cell Lines*, https://www.atcc.org/Search_Results.aspx?dsNav=Ntk:PrimarySearch%7cbreast+cancer+metastatic+cell+line%7c3%7c,Ny:True,Ro:0,N:1000552&searchTerms=breast+cancer+metastatic+cell+line&redir=1, 11 Mei 2017
- ATCC, 2017^b, *ATCC human umbilical vein endothelial cells*, <https://www.atcc.org/Global/FAQs/4/9/ATCC%20human%20umbilical%20vein%20endothelial%20cells.aspx>, 3 Juni 2017
- Atun, S. & Arianingrum, R., 2015, Anticancer activity of bioactive compounds from *Kaempferia rotunda* rhizome against human breast cancer, *Indonesian Journal of Pharmacognosy and Phytochemical Research*, **7**(2), 252-269.
- Bandyopadhyay, A., Wang, L., Agyin, J., Tang, Y., Lin, S., Yeh, I.-T., dkk., 2010, Doxorubicin in Combination with a Small TGF β Inhibitor: A Potential Novel Therapy for Metastatic Breast Cancer in Mouse Models, *PLoS One*, **5**: e10365.

- Batist, G., Harris, L., Azarnia, N., Lee, L.W. and Daza-Ramirez, P., 2006, Improved anti-tumor response rate with decreased cardiotoxicity of non-pegylated liposomal doxorubicin compared with conventional doxorubicin in first-line treatment of metastatic breast cancer in patients who had received prior adjuvant doxorubicin: results of a retrospective analysis, *Anti-cancer Drugs*, **17**(5), 587-595.
- Bartsch, J.E., Staren, E.D. & Appert, H.E., 2003, Matrix metalloproteinase expression in breast cancer, *Journal of Surgical Research*, **110**(2), 383-392.
- Benz, C.C., Scott, G.K., Sarup, J.C., Johnson, R.M., Tripathy, D., Coronado, E., Shepard, H.M. & Osborne, C.K., 1992, Estrogen-dependent, tamoxifen-resistant tumorigenic growth of MCF-7 cells transfected with HER2/neu, *Breast Cancer Research and Treatment*, **24**(2), 85-95.
- Blow, N., 2007, Cell migration: our protruding knowledge, *Nature Methods*, **4**(7), 589.
- Bogenrieder, T. & Herlyn, M., 2003. Axis of evil: molecular mechanisms of cancer metastasis, *Oncogene*, **22**(42), 6524-6536.
- Bubnov, R., Polivka, J., Zubor, P., Konieczka, K. & Golubnitschaja, O., 2017, "Pre-metastatic niches" in breast cancer: are they created by or prior to the tumour onset?" "Flammer Syndrome" relevance to address the question, *European Association for Predictive Preventive & Personalized Medicine (EPMA) Journal*, 1-17.
- Campiglio, M., Somenzi, G., Olgiati, C., Beretta, G., Balsari, A., Zaffaroni, N., Valagussa, P. & Ménard, S., 2003, Role of proliferation in HER2 status predicted response to doxorubicin, *International Journal of Cancer*, **105**(4), 568-573.
- Chahyadi, A., Hartati, R. & Wirasutisna, K.R., 2014, *Boesenbergia Pandurata* Roxb., An Indonesian Medicinal Plant: Phytochemistry, Biological Activity, Plant Biotechnology, *Procedia Chemistry*, **13**, 13-37.
- Chao, W., Deng, J.S., Li, P.Y., Liang, Y.C. & Huang, G.J., 2017, 3, 4-Dihydroxybenzalactone Suppresses Human Non-Small Cell Lung Carcinoma Cells Metastasis via Suppression of Epithelial to Mesenchymal Transition, ROS-Mediated PI3K/AKT/MAPK/MMP and NFκB Signaling Pathways, *Molecules*, **22**(4), 537.
- Cheah, S.C., Appleton, D.R., Lee, S.T., Lam, M.L., Hadi, A.H.A. & Mustafa, M.R., 2011, Panduratin A inhibits the growth of A549 cells through induction of apoptosis and inhibition of NF-KappaB translocation. *Molecules*, **16**(3), 2583-2598.

- Cheah, S.C., Lai, S.L., Lee, S.T., Hadi, A.H.A. & Mustafa, M.R., 2013. Panduratin A, a possible inhibitor in metastasized A549 cells through inhibition of NF-kappa B translocation and chemoinvasion. *Molecules*, **18**(8), 8764-8778.
- Chiang, A.C. & Massagué, J., 2008, Molecular basis of metastasis, *New England Journal of Medicine*, **359**(26), 2814-2823.
- Eger, A. and Mikulits, W., 2005, Models of epithelial–mesenchymal transition, *Drug Discovery Today: Disease Models*, **2**(1), 57-63.
- Elsaid, A.A., Elkerm, Y. and El-Shami, K., 2008, Trastuzumab plus gemcitabine and cisplatin chemotherapy for HER2/neu-overexpressing breast cancer with visceral metastasis, *Journal of Clinical Oncology*, **26**(15_suppl), pp.1109-1109.
- Engel, R.H. & Kaklamani, V.G., 2007. HER2-positive breast cancer. *Drugs*, **67**(9), 1329-1341.
- Gupta, G.P. and Massagué, J., 2006, Cancer metastasis: building a framework, *Cell*, **127**(4), 679-695.
- Gwon, S.H. & Hwang, J.K., 2009, *Kaempferia pandurata* Roxb. inhibits *Porphyromonas gingivalis* supernatant-induced matrix metalloproteinase-9 expression via signal transduction in human oral epidermoid cells, *Journal of Ethnopharmacology*, **123**(2), 315-324.
- Hanahan, D. & Weinberg, R.A., 2011, Hallmarks of cancer: the next generation, *Cell*, **144**(5), 646-674.
- Hetiani, T., Rohman, A. & I'anatun Nihlati., 2012., Daya Antioksidan Ekstrak Etanol Rimpang Temu Kunci (*Boesenbergia pandurata* (Roxb.) Schlecht) dengan Metode Penangkapan Radikal DPPH (1,1-difenil-2-pikrilhidrazil). Yogyakarta : Farmasi UGM.
- Holliday, D.L. & Speirs, V., 2011, Choosing the right cell line for breast cancer research, *Breast Cancer Research*, **13**(4), 215.
- Honn, K.V., Cicone, B. & Skoff, A., 1981, Prostacyclin: a potent antimetastatic agent, *Science*, **212**(4500), 1270-1272.
- Hwang, J.K. & Yanti, 2010, Suppressive effect of ethanolic *Kaempferia pandurata* Roxb. extract on matrix metalloproteinase-2 expression in *Porphyromonas gingivalis*-treated human gingival fibroblasts in vitro, *Journal of Oral Science*, **52**(4), 583-591.
- Hwang, J.K., 2013, Anti-Metalloproteinase-9 Activity of Orally Panduratin A Isolated from *Kaempferia Pandurata* Roxb. on Experimental Gingival Inflammation in the Rat, *Planta Medica*, **79**(10), 18.

- Huang, C., Jacobson, K. & Schaller, M.D., 2004, MAP kinases and cell migration. *Journal of Cell Science*, **117**(20), 4619-4628.
- Jantan, I.B., Basni, I., Ahmad, A.S., Ali, M., Azah, N., Ahmad, A.R. & Ibrahim, H., 2001, Constituents of the rhizome oils of *Boesenbergia pandurata* (Roxb.) Schlecht from Malaysia, Indonesia and Thailand, *Flavour and Fragrance journal*, **16**(2), 110-112.
- Jing, L.J., Mohamed, M., Rahmat, A. & Bakar, M.F.A., 2010, Phytochemicals, antioxidant properties and anticancer investigations of the different parts of several gingers species (*Boesenbergia rotunda*, *Boesenbergia pulchella* var *attenuata* and *Boesenbergia armeniaca*), *Journal of Medicinal Plants Research*, **4**(1), 027-032.
- Kalluri, R. & Weinberg, R.A., 2009, The basic of epithelial-mesencymal transition, *The Journal of Clinical Investigation*, **119**(6), 1420-1428.
- Kirana, C., Jones, G.P., Record, I.R. & McIntosh, G.H., 2007, Anticancer properties of panduratin A isolated from *Boesenbergia pandurata* (Zingiberaceae). *Journal of Natural Medicines*, **61**(2), 131-137.
- Klemke, R.L., Cai, S., Giannini, A.L., Gallagher, P.J., De Lanerolle, P. & Cheresch, D.A., 1997, Regulation of cell motility by mitogen-activated protein kinase. *The Journal of Cell Biology*, **137**(2), 481-492.
- Krop, I.E., Lin, N.U., Blackwell, K., Guardino, E., Huober, J., Lu, M., Miles, D., Samant, M., Welslau, M. & Dieras, V., 2015, Trastuzumab emtansine (T-DM1) versus lapatinib plus capecitabine in patients with HER2-positive metastatic breast cancer and central nervous system metastases: a retrospective, exploratory analysis in EMILIA, *Annals of Oncology*, **26**(1), 113-119.
- Lai, S.L., Cheah, S.C., Wong, P.F., Noor, S.M. & Mustafa, M.R., 2012, In vitro and in vivo anti-angiogenic activities of Panduratin A, *PloS One*, **7**(5), p.e38103.
- Lai, S.L., Wong, P.F., Lim, T.K., Lin, Q. & Mustafa, M.R., 2015, ITRAQ-based proteomic identification of proteins involved in anti-angiogenic effects of Panduratin A on HUVECs, *Phytomedicine*, **22**(1), 203-212.
- Laskin JJ & Sandler AB, 2004, Epidermal Growth Factor Receptor: a Promising Target in Solid Tumours, *Cancer Treat Review*, **30**, 1-17.
- Li, Y.M., Pan, Y., Wei, Y., Cheng, X., Zhou, B.P., Tan, M., Zhou, X., Xia, W., Hortobagyi, G.N., Yu, D. & Hung, M.C., 2004, Upregulation of CXCR4 is essential for HER2-mediated tumor metastasis, *Cancer cell*, **6**(5), 459-469.
- Listyawati, S., Mubarika, S., Murti, Y.B. & Ikawati, M., 2015, Anti-Proliferative Activity and Apoptosis Induction of an Ethanolic Extract of *Boesenbergia*

pandurata (Roxb.) Schlecht. against HeLa and Vero Cell Lines, *Asian Pacific Journal of Cancer Prevention*, **17**(1), 183-187.

Le Bail, J.C., Aubourg, L. & Habrioux, G., 2000, Effect of pinostrobin on estrogen metabolism and estrogen receptor transactivation, *Cancer Letters*, **156**(1), 37-44.

Leber, M.F. & Efferth, T., 2009, Molecular principles of cancer invasion and metastasis (review), *International Journal of Oncology*, **34**(4), 881.

Levine, M.N., Gent, M., Hirsh, J., Arnold, A., Goodyear, M.D., Hryniuk, W. & De Pauw, S., 1988, The thrombogenic effect of anticancer drug therapy in women with stage II breast cancer, *New England Journal of Medicine*, **318**(7), 404-407.

Lu, L., Payvandi, F., Wu, L., Zhang, L.H., Hariri, R.J., Man, H.W., Chen, R.S., Muller, G.W., Hughes, C.C., Stirling, D.I. and Schafer, P.H., 2009. The anti-cancer drug lenalidomide inhibits angiogenesis and metastasis via multiple inhibitory effects on endothelial cell function in normoxic and hypoxic conditions, *Microvascular Research*, **77**(2), 78-86.

Lu, D.Y., Lu, T.R. & Wu, H.Y., 2013^a, New insights into individualized antimetastatic therapy, *Advanced Techniques in Biology & Medicine*, **1**(106), 1

Mansel, R.E., Fodstad, O. & Jiang, W.G. eds., 2007, *Metastasis of Breast Cancer*, 1, Springer, AA Dordrecht.

Mao, L., Yuan, L., Slakey, L.M., Jones, F.E., Burow, M.E. & Hill, S.M., 2010, Inhibition of breast cancer cell invasion by melatonin is mediated through regulation of the p38 mitogen-activated protein kinase signaling pathway, *Breast Cancer Research*, **12**(6), R107.

Mareel, M.M., De Baetselier, P. & Van Roy, F.M., 1991, *Mechanisms of Invasion and Metastasis*, 1, CRC press, Florida.

Miles, D., Schneeweiss, A., Peretz-Yablonski, T., Ciruelos, E., Puglisi, F., Easton, V., Lindegger, N., Restuccia, E. and Bachelot, T., 2017, Preliminary safety and efficacy of first-line pertuzumab combined with trastuzumab and taxane therapy in patients ≥ 65 years with HER2-positive locally recurrent/metastatic breast cancer: Subgroup analyses of the PERUSE study, *Cancer Research* **77**(4), P4-21-07.

Menendez, J.A., Mehmi, I. and Lupu, R., 2006. Trastuzumab in Combination With Heregulin-Activated Her-2 (erb B-2) Triggers a Receptor-Enhanced Chemosensitivity Effect in the Absence of Her-2 Overexpression, *Journal of Clinical oncology*, **24**(23), 3735-3746.

- Mosmann, T., 1983, Rapid colorimetric assay for cellular growth and survival: application to proliferation and cytotoxicity assays, *Journal of Immunological Methods*, **65**(1-2), 55-63.
- Nguyen, N.T., Nguyen, M.T.T., Nguyen, H.X., Dang, P.H., Dibwe, D.F., Esumi, H. & Awale, S., 2017, Constituents of the Rhizomes of *Boesenbergia pandurata* and Their Antiausterity Activities against the PANC-1 Human Pancreatic Cancer Line, *Journal of Natural Products*, **80**(1), 141-148.
- Pegram, M.D., Lipton, A., Hayes, D.F., Weber, B.L., Baselga, J.M., Tripathy, D., Baly, D., Baughman, S.A., Twaddell, T., Glaspy, J.A. and Slamon, D.J., 1998, Phase II study of receptor-enhanced chemosensitivity using recombinant humanized anti-p185HER2/neu monoclonal antibody plus cisplatin in patients with HER2/neu-overexpressing metastatic breast cancer refractory to chemotherapy treatment, *Journal of Clinical Oncology*, **16**(8), 2659-2671.
- Pellikainen, J.M., Ropponen, K.M., Kataja, V.V., Kellokoski, J.K., Eskelinen, M.J. and Kosma, V.M., 2004. Expression of matrix metalloproteinase (MMP)-2 and MMP-9 in breast cancer with a special reference to activator protein-2, HER2, and prognosis, *Clinical Cancer Research*, **10**(22), 7621-7628.
- Peyri, N., Berard, M., Fauvel-Lafeve, F., Trochon, V., Arbeille, B., Lu, H., Legrand, C. & Crepin, M., 2009, Breast tumor cells transendothelial migration induces endothelial cell anoikis through extracellular matrix degradation, *Anticancer Research*, **29**(6), 2347-2355.
- Prat, A. & Perou, C.M., 2011, Deconstructing the molecular portraits of breast cancer, *Molecular oncology*, **5**(1), 5-23.
- Prat, A., Parker, J.S., Karginova, O., Fan, C., Livasy, C., Herschkowitz, J.I., He, X. & Perou, C.M., 2010, Phenotypic and molecular characterization of the claudin-low intrinsic subtype of breast cancer, *Breast Cancer Research*, **12**(5), R68.
- Prayong, P., Barusrux, S. & Weerapreeyakul, N., 2008, Cytotoxic activity screening of some indigenous Thai plants, *Fitoterapia*, **79**(7), 598-601.
- Putri, D.D.P., Sarmoko, S., Febriansah, R., Puspitasari, E., Ismiyati, N., & Fitriasari, A., 2011, MCF-7 Resistant Doxorubicin are Characterized by Lamellapodia, Strong Adhesion on Substrate and P-gp Overexpression, *Indonesian Journal of Cancer Chemoprevention*, **2**, 304-309.
- Rajendran, B.K. & Deng, C.X., 2017, Characterization of potential driver mutations involved in human breast cancer by computational approaches. *Oncotarget*, **5**.

- Rutala, W.A. & Weber, D.J., 2008, *Guideline for disinfection and sterilization in healthcare facilities*, Centers for Disease Control, USA.
- Sarmoko, R.I., Febriansah, R., Romadhon, A.F., Nugroho, A.P.A., Meiyanto, E., Susidarti, R.A. & Sudarmanto, B.A., 2008, Cytotoxic effect of ethanolic extract of Temu Kunci (*Kaempferia pandurata*) and Sirihan (*Piper aduncum* L.) on breast cancer line. *Proceeding of the International symposium on Molecular Targeted Therapy*, 94-102.
- Seton-Rogers, S.E., Lu, Y., Hines, L.M., Koundinya, M., LaBaer, J., Muthuswamy, S.K. & Brugge, J.S., 2004, Cooperation of the ErbB2 receptor and transforming growth factor β in induction of migration and invasion in mammary epithelial cells, *Proceedings of the National Academy of Sciences of the United States of America*, **101**(5), 1257-1262.
- Siekman, T.R.L., Burgazli, K.M., Bobrich, M.A., Nöll, G. & Erdogan, A., 2013, The antiproliferative effect of pinostrobin on human umbilical vein endothelial cells (HUVEC), *European Review for Medical and Pharmacological Sciences*, **17**(5), 668-672.
- Slamon, D.J., Leyland-Jones, B., Shak, S., Fuchs, H., Paton, V., Bajamonde, A., Fleming, T., Eiermann, W., Wolter, J., Pegram, M. & Baselga, J., 2001, Use of chemotherapy plus a monoclonal antibody against HER2 for metastatic breast cancer that overexpresses HER2, *New England Journal of Medicine*, **344**(11), 783-792.
- Smalley, R.V., Lefante, J., Bartolucci, A., Carpenter, J., Vogel, C. & Krauss, S., 1983, A comparison of cyclophosphamide, adriamycin, and 5-fluorouracil (CAF) and cyclophosphamide, methotrexate, 5-fluorouracil, vincristine, and prednisone (CMFVP) in patients with advanced breast cancer, *Breast Cancer Research and Treatment*, **3**(2), 209-220.
- Stetler-Stevenson, W.G., Aznavoorian, S. and Liotta, L.A., 1993, Tumor cell interactions with the extracellular matrix during invasion and metastasis, *Annual Review of Cell Biology*, **9**(1), 541-573.
- Subik, K., Lee, J.F., Baxter, L., Strzepek, T., Costello, D., Crowley, P., Xing, L., Hung, M.C., Bonfiglio, T., Hicks, D.G. & Tang, P., 2010, The expression patterns of ER, PR, HER2, CK5/6, EGFR, Ki-67 and AR by immunohistochemical analysis in breast cancer cell lines, *Breast Cancer: Basic and Clinical Research*, **4**, 35.
- Sukardiman, Aty Widyawaruyanti, Retno Widyawati & Sismindari, 2014, Pinostrobin isolated from *Kaempferia pandurata* Roxb induced apoptosis in T47D human breast cancer cell line, *E-Journal Planta Husada*, **2**(1), 20-26.

- Sukari, M.A., Lian, G.E.C. & Khalid, K., 2007, Cytotoxic constituents from *Boesenbergia pandurata* (roxb.) schltr, *Natural Product Sciences*, **13**(2), 110-113.
- Sopanaporn, J., Apirattikul, N., Palaga, T., Yingyongnarongkul, B.E. & Yompakdee, C., 2014, Anti-proliferation activity of pinostrobin from *Boesenbergia pandurata* and its efficacy improvement using cationic liposome on human cancer cell lines, *Proceeding of the 26th Annual Meeting of the Thai Society Biotechnology and International Conference*, 612-615.
- Swain, S.M., Baselga, J., Kim, S.B., Ro, J., Semiglazov, V., Campone, M., Ciruelos, E., Ferrero, J.M., Schneeweiss, A., Heeson, S. & Clark, E., 2015, Pertuzumab, trastuzumab, and docetaxel in HER2-positive metastatic breast cancer, *New England Journal of Medicine*, **372**(8), 724-734.
- Swenson, C.E., Bolcsak, L.E., Batist, G., Guthrie Jr, T.H., Tkaczuk, K.H., Boxenbaum, H., Welles, L., Chow, S.C., Bhamra, R. and Chaikin, P., 2003, Pharmacokinetics of doxorubicin administered iv as Myocet (TLC D-99; liposome-encapsulated doxorubicin citrate) compared with conventional doxorubicin when given in combination with cyclophosphamide in patients with metastatic breast cancer, *Anti-cancer drugs*, **14**(3), 239-246.
- Toth, M. & Fridman, R., 2001, Assessment of gelatinases (MMP-2 and MMP-9 by gelatin zymography, *Metastasis Research Protocols: Volume I: Analysis of Cells and Tissues*, 163-174.
- Ujiantari, N. S. O., Widyakusuma, N. N., Adina, A. B., Junaedi, S., Meiyanto, E., 2009, Penggunaan Ekstrak Etanolik Rimpang Temu Kunci (*Boesenbergia pandurata*) untuk Peningkatan Aktivitas Agen Kemoterapi Doxorubicin terhadap Sel Kanker Payudara T47D, *Simposium Penelitian Bahan Obat Alami XIV Mukthamar Perhipba XI*, BM-14.
- Vargo-Gogola, T. & Rosen, J.M., 2007, Modelling breast cancer: one size does not fit all, *Nature Reviews Cancer*, **7**(9), 659-672.
- Wakefield, L. & Hunter, K.W., 2007, *Metastasis* (Vol. 26), 4, IOS Press, Maryland.
- Wang, S.E., Shin, I., Wu, F.Y., Friedman, D.B. & Arteaga, C.L., 2006, HER2/Neu (ErbB2) signaling to Rac1-Pak1 is temporally and spatially modulated by transforming growth factor β , *Cancer Research*, **66**(19), 9591-9600.
- Wattanapitayakul, S.K., Chularojmontri, L., Herunsalee, A., Charuchongkolwongse, S., Niumsukul, S., & Bauer, J.A., 2005. Screening of Antioxidants from Medicinal Plants for Cardioprotective Effect against Doxorubicin Toxicity, *Basic & Clinical Pharmacology & Toxicology*, **96**, 80-87.

- Weber, G.F., 2013, Why does cancer therapy lack effective anti-metastasis drugs?. *Cancer Letters*, **328**(2), 207-211.
- Weber, G.F., 2015, *Molecular Therapies of Cancer*. Springer.
- Weng, C.J., Chau, C.F., Hsieh, Y.S., Yang, S.F. & Yen, G.C., 2008, Lucidenic acid inhibits PMA-induced invasion of human hepatoma cells through inactivating MAPK/ERK signal transduction pathway and reducing binding activities of NF- κ B and AP-1, *Carcinogenesis*, **29**(1), 147-156.
- Wilhelm SM, Collier IE, Marmer, BL, Eisen AZ, Grant GA, Goldberg GI, 1989, SV40-Transformed human lung fibroblasts secrete a 92-kDa type IV collagenase which is identical to that secreted by normal human macrophage, *Journal of Biology Chemistry*, **264**, 17213-17331.
- Win, N.N., Awale, S., Esumi, H., Tezuka, Y. & Kadota, S., 2007, Bioactive secondary metabolites from *Boesenbergia pandurata* of Myanmar and their preferential cytotoxicity against human pancreatic cancer PANC-1 cell line in nutrient-deprived medium, *The Journal of Natural Products*, **70**(10), 1582-1587.
- Yamaguchi, H. & Condeelis, J., 2007, Regulation of the actin cytoskeleton in cancer cell migration and invasion. *Biochimica et Biophysica Acta (BBA)-Molecular Cell Research*, **1773**(5), 642-652.
- Yarrow, J.C., Perlman, Z.E., Westwood, N.J. & Mitchison, T.J., 2004, A high-throughput cell migration assay using scratch wound healing, a comparison of image-based readout methods, *BMC Biotechnology*, **4**(1), 21.
- Yun, J.M., Kweon, M.H., Kwon, H., Hwang, J.K. & Mukhtar, H., 2006, Induction of apoptosis and cell cycle arrest by a chalcone panduratin A isolated from *Kaempferia pandurata* in androgen-independent human prostate cancer cells PC3 and DU145, *Carcinogenesis*, **27**(7), 1454-1464.



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**EKSPLORASI AKTIVITAS EKSTRAK TEMU KUNCI (*Boesenbergia pandurata*) TERHADAP PROFIL
METASTASIS SEL**

MCF-7/HER2

HILYATUL FADLIYAH, Prof. Dr. Edy Meiyanto, M.Si., Apt. ; Muthi' Ikawati, M.Sc., Apt.

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