

DAFTAR PUSTAKA

- Abcam 2007: *T47D (Human ductal breast epithelial tumor cell line) Whole Cell Lysate* (ab14899) datasheet. <http://www.abcam.com/index.html?datasheet-14899>.
- Abrahamse, H., and Hamblin, M.R. (2016). New photosensitizers for Photodynamic therapy. *Biochem J.* volume 473(4): 347-364.
- Adi, L.T. (2007). *Sehat Berdasarkan Golongan Darah*. Jakarta: Argo Media Pustaka.
- Agostinis, P., Berg, K., Cengel, K.A., Foster, T.H., Girotti, A.W., Gollnick, S.O., Hahn, S.M., Hamblin, M.R., Juzeniene, A., Kessel, D., Korbelik, M., Moan, J., Mroz, P., Nowis, D., Piette, J., Wilson, B.C., Golab, J. (2011). Photodynamic therapy of cancer: An update. *CA: A Cancer Journal for Clinicians*. Volume 61(4): 250–281.
- Allen, C.M., Sharman, W.M., Van Lier, J.E. (2001). Current status of phthalocyanines in the photodynamic therapy of cancer. *Journal of Porphyrins Phthalocyanines*. Volume 5(2): 161–169.
- [ACS] American Cancer Society. (2016). *Breast Cancer and Figures 2016*. Atlanta: American Cancer Society.
- [ACS] American Cancer Society. (2017). *Cancer Facts & Figure 2017*. Atlanta: American Cancer Society.
- Bonnett, R. (2002). Progress with heterocyclic photosensitizers for the photodynamic therapy (PDT) of tumours. *Journal of Heterocyclic Chemistry*. Volume 39(3): 455–470.
- Brown, S.B., Brown, E.A., Walker, I. (2004). The present and future role of photodynamic therapy in cancer treatment. *The Lancet Oncology*. Volume 5(8): 497–508.
- Castano, A.P., Demidova, T.N., Hamblin, M.R. (2004). Mechanisms in photodynamic therapy: part one—photosensitizers, photochemistry and cellular localization. *Photodiagnosis and Photodynamic Therapy*. Volume 1(4): 279–293.
- CCRC. (2015). *Sel T47D*. Cancer Chemoprevention Research Center Fakultas Farmasi Universitas Gadjah Mada. Yogyakarta: UGM.
- Choe, E., Min, D.B., 2006. Chemistry and Reactions of Reactive Oxygen Species in Foods. *Critical Reviews in Food Science and Nutrition*. Volume 46(1): 1–22.

- Dalimartha, S. (2004). *Deteksi Dini Kanker dan Simplisia Antikanker*. Jakarta: Penebar Swadaya Jakarta.
- Frackowiak, D., Planner, A., Waszkowiak, A., Boguta, A., Ion, R.-M., Wiktorowicz, K. (2001). Yield of intersystem (singlet–triplet) crossing in phthalocyanines evaluated on the basis of a time in resolved photothermal method. *Journal of Photochemistry and Photobiology A: Chemistry*. Volume 141(2-3): 101–108.
- Gabbiani, Chiara. (2008). *Proteins as Possible Targets for Antitumor Metal Complexes*. Firenze: Firenze University Press.
- Gale, S dan Charette, D. (1999). *Rencana Asuhan Keperawatan Onkologi*. Jakarta: EGC.
- Globocan. (2018). *Latest global cancer data: Cancer burden rises to 18,1 million new cases and 9,6 million cancer deaths in 2018*. IARC Cancer, 3. Diakses tanggal 29 September 2019.
- Hendry, N. (2007). *Pencegahan dan terapi kanker*. Jakarta : Balai.
- Hirobara, S., M., *Et. al.*, 2004. Hydrophobicity Parameters (Log P) of Glycoconjugated Porphyrins for Photodynamic Therapy Evaluated by Reversed Phase HPLC. *J. Porphyr. Phthalocya*. 1289-1292.
- Hodgkinson, N., Kruger, C.A., Mokwena, M., Abrahamse, H. (2017). Cervical cancer cells (HeLa) response to photodynamic therapy using a zinc phthalocyanine photosensitizer. *Journal of Photochemistry and Photobiology B: Biology*. Volume 177: 32–38.
- Hondermarck, H. (2003). Breast Cancer: When Proteomics Challenges Biological Complexity. *Mol Cell Proteomics*. Volume 2(5): 281–291.
- Josefsen, L.B., Boyle, R.W. (2012). Unique Diagnostic and Therapeutic Roles of Porphyrins and Phthalocyanines in Photodynamic Therapy. *Imaging and Theranostics*. *Theranostics* 2(9): 916–966.
- [Kemenkes RI] Kementerian Kesehatan Republik Indonesia. (2015). *Infodatin-Pusat Data dan Informasi Kementerian Kesehatan RI*. Jakarta : Kementerian Kesehatan RI.
- Kondo, S. (1993). *Health Effects of Low-level Radiation*, Kinki University Press, Osaka, Japan and Medical Physics Publishing, Madison USA.

- Kuzyniak, W., Schmidt, J., Glac, W., Berkholtz, J., Steinemann, G., Hoffmann, B., Ermilov, E.A., Gürek, A.G., Ahsen, V., Nitzsche, B., Höpfner, M. (2017). Novel zinc phthalocyanine as a promising photosensitizer for photodynamic treatment of esophageal cancer. *International Journal of Oncology*. Volume 50(3): 953–963.
- Kwon, Kim Se. (2014). *Handbook of Anticancer Drugs from Marine Origin*. Korea: Departement of Marine-Bio Convergenee Science.
- Lin, J., Wan, M.T., 2014. Current evidence and applications of photodynamic therapy in dermatology. *CCID* 145.
- Macdonald, F. and Ford, C.H.J. 1997, *Molecular Biology of Cancer*. BIOS Scientific Publisher Limited, UK.
- Maiya, B.G. (2000). Photodynamic Therapy (PDT): 2. Old and New Photosensitizers. *Resonance*. Volume 5(6): 15-29.
- Manoto, S.L., Abrahamse, H. (2011). Effect of a newly synthesized Zn sulfophthalocyanine derivative on cell morphology, viability, proliferation, and cytotoxicity in a human lung cancer cell line (A549). *Lasers Med Sci*. Volumr 26(4): 523–530.
- Mantareva, V., Kussovski, V., Angelov, I., 2016. Cationic metal phthalocyanines as effective photosensitizers toward pathogenic microorganisms.
- Maruti, Astrid Ayu., Khamsita, Rahmi., Putri, D.D.P., Meiyanto, Edy. (2011). Sinergisitas Efek Sitotoksik Kombinasi Arekolin dan Doxorubicin pada Sel Kanker Serviks HeLa. *Majalah Farmasi Indonesia*. Volume 22(4): 265-272.
- Maulana, R. (2010). *Isolasi Tanaman dan Elektroforesis DNA*. Jakarta: Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam Universitas Pendidikan Indonesia.
- McKenzie, L.K., Bryant, H.E., Weinstein, J.A., 2019. Transition metal complexes as photosensitisers in one- and two-photon photodynamic therapy. *Coordination Chemistry Reviews*. Volume 379: 2–29.
- Mehraban, N., Musich, P., Freeman, H., 2019. Synthesis and Encapsulation of a New Zinc Phthalocyanine Photosensitizer into Polymeric Nanoparticles to Enhance Cell Uptake and Phototoxicity. *Applied Sciences*. Volume 9(3): 401.

- Merck: *Product Comparison Guide*. 2019. Retrieved 18 November, 2019 from Sigma Aldrich Web site: <https://www.sigmaaldrich.com/singapore.html> Intext citation: Merck 2019.
- Min, D. B., and Boff, J. M. (2002). Chemistry and Reaction Of Singlet Oxygen in Foods. *Comprehensive Review in Food Science and Food Safety*. Volume 1(2): 58-72.
- Moreira, L., Lyon, J., Romani, A., Severino, D., Rodrigues, M., de Oliveira, H. (2012). Phenothiazinium dyes as photosensitizers in photodynamic therapy (PDT): spectroscopic properties and photochemical mechanisms *InTech*.
- Mulyani, N.S, dan Nuryani. (2013). *Waspadai 4 Kanker Ganas Pembunuh Wanita*. Yogyakarta: Nuha Medika.
- Nowis, D., Makowski, M., Stokłosa, T., Legat, M., Issat, T., Gołab, J. (2005). Direct tumor damage mechanisms of photodynamic therapy. *Acta Biochim Pol*. Volume 52(2): 39-52.
- Nyamu, S.N., Ombaka, L., Masika, E., Ng'ang'a, M. (2018). Antimicrobial Photodynamic Activity of Phthalocyanine Derivatives. *Advances in Chemistry*. Volume 2018: 1–8.
- Obata, T., Mori, S., Suzuki, Y., Kashiwagi, T., Tokunaga, E., Shibata, N., Tanaka, M. (2015). Photodynamic Therapy Using Novel Zinc Phthalocyanine Derivatives and a Diode Laser for Superficial Tumors in Experimental Animals. *Journal of Cancer Therapy*. Volume 6(1): 53–61.
- Ocakoglu, K., Er, O., Ersoz, O.A., Lambrecht, F.Y., Ince, M., Kayabasi, C., Gunduz, C., (2016). Evaluation of nuclear imaging potential and photodynamic therapy efficacy of symmetrical and asymmetrical zinc phthalocyanines. *Journal of Drug Delivery Science and Technology*, Vol. 33: 164–169.
- Ormond, A., dan Freeman, H. (2013). Dye Sensitizers for Photodynamic Therapy. *Materials*. Volume 6(3): 817–840.
- Pandey, R.K. dan Zheng, G. (2000). Porphyrins as Photosensitizers in Photodynamic Therapy Di dalam: Kadish, K.M., Smith, K.M., dan Guillard, R. *The Porphyrin Handbook*. Volume 6. San Diego-United States: Academic Press.

- Pazdur, R., Coia, L. R., and Hoskins, W. J. (2003). *Cancer Management: A Multidisciplinary Approach: Medical, Surgical, and Radiation Oncology*. New York: The Oncology Group.
- Pebriana, R. B., Wardhani, B. W. K., Widayanti, E., Wijayanti, N. L. S., Wijayanti, T. R., Riyanto, S. (2008). Pengaruh Ekstrak Metanol Daun Kenikir (*Cosmos caudatus* Kunth.) Terhadap Pemacuan Apoptosis Sel Kanker Payudara. *Pharmacon*. Volume 9(1): 21-26.
- Pereira, P.M.R., Silva, S., Cavaleiro, J.A.S., Ribeiro, C.A.F., Tomé, J.P.C., Fernandes, R., (2014). Galactodendritic Phthalocyanine Targets Carbohydrate-Binding Proteins Enhancing Photodynamic Therapy. *PLoS ONE*. Volume 9(4): 95529.
- Puji, D.N., Awik, Sukardimana., Fadjri, Hani Tenia. 2011. Uji Sitotoksisitas dan Efek Ekstrak Spons Laut *Aaptos suberitoides* terhadap Sel Kanker Serviks (HeLa) secara *In Vitro*.
- Rahmadani, Nursyifa. 2019. *Karakteristik Fisikokimia Senyawa Zinc Phthalocyanine Untuk Terapi Kanker Secara Fotodinamik* skripsi. Purwokerto. Fakultas Farmasi, Universitas Muhammadiyah Purwokerto
- Schafer, J.M.G., Lee, E.S., O'Regan, R.M., Yao, K., and Jordan, V. C. (2000), Rapid Development of Tamoxifen-stimulated Mutant p53 Breast Tumor (T47D) in Athymic Mice. *Clinical Cancer Research*. Volume 6: 4373-4380.
- Schubert, Fred. (2006). *Light-Emitting Diode*. Cambridge: Cambridge University
- Shadine, M. (2012). *Penyakit Wanita*. Yogyakarta: Citra Pustaka.
- Sriphana, Uraiwan., Yenjai, Chavi., Tungnoi, Siriporn., Sripana, Jongjai., Junsongduang, Auemporn. (2018). Flavonoids from *Milletia leucantha* and Their Cytotoxicity. *Natural Product Communications*. Volume13(8): 961-962.
- Staicu, A., Pascu, A., Nuta, A., Sorescu, A., Raditoiu, V., Pascu, M.L. (2013). Studies About Phthalocyanine Photosensitizers To Be Used In Photodynamic Therapy. *Romanian Reports in Physics*. Volume 65(3): 1032–1051.
- Straten, Demian Van., Mashayekhi, Vida., Bruijn, Henriette S.D., Oliveira, Sabrina., Robinson, Dominic J. (2017). *Oncologic Photodynamic Therapy: Basic Principles, Current Clinical Status and Future Directions*. *Cancers (Basel)*. Volume 9(2):19

- Suwargati, D.A.P.M. 2017. *Uji Efektivitas Ekstrak Etanol Daun Tembelean (Lanata camara) sebagai Agen Ko-Kemoterapi 5-Fluorouracil pada Sel Kanker Payudara T47D* skripsi. Purwokerto. Fakultas Farmasi, Universitas Muhammadiyah Purwokerto.
- Tjahjono, D.H. (2006). Porphyrin Structure-based Molecules for Photodynamic Therapy of Cancer. *Acta Pharm Indonesia*. Volume 31: 1-12.
- Tsao, A.S., Kim, E.S., Hong, W.K. (2004). Chemoprevention of Cancer. CA: A Cancer *Journal for Clinicians*. Volume 54(3): 150–180.
- Velazquez, F.N., Miretti, M., Baumgartner, M.T., Caputto, B.L., Tempesti, T.C., Prucca, C.G. (2019). Effectiveness of ZnPc and of an amine derivative to inactivate Glioblastoma cells by Photodynamic Therapy: an in vitro comparative study. *Sci Rep*. Volume 9: 3010.
- Vitol, S. 1991. Uptake of Low-Density Lipoprotein by Malignant Cell-Possible Therapeutic Application. *Cancer Cell*. Volume 3(2): 488-495.
- Volgyi, G., Katalin, D., Jozsef, V., Klara, V., Krisztina T. (2008). RPTLC Determination of Log P of Structurally Diverse Neutral Compounds. *Journal of Planar Chromatography* 21(2) 143-149.
- Walaszek, Z., Hanausek, M., Slaga, T.J. (2004). Mechanisms of Chemoprevention. *Chest*. Volume 125: 128S-133S.
- Winarno, Eko. 2011. *Uji Sitotoksik Ekstrak Kapang Aspergillus sp. Terhadap Sel Kanker Payudara T47D*. [Skripsi]. Depok: Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Indonesia.
- World Health Organization 2018: *International agency for Research on Cancer: Press Release Latest Global Cancer Data*. (2018). Retrieved 29 September, 2019 from World Health Organization Web site: <http://www.who.int/cancer/PRGlobocanFinal.pdf?ua=1> Intext citation: World Health Organization 2018.
- Zampieri, L., Bianchi, P., Ruff, P., dan Arbuthnot, P. (2002). Differential Modulation by Estradiol of P-glycoprotein Drug Resistance Protein Expression in Culture MCF 7 and T47D Breast Cancer Cells. *Anticancer Res*. Volume 22(4): 2253-2259.