

## DAFTAR PUSTAKA

- Achmadi, S.S., 2003. *Kimia Organik*. Edisi 11. Erlangga. Jakarta.
- Aini, N. K. dan Rochman B. 2015. Hubungan Antara Ekspresi Protein HER-2/Neu dengan Derajat Diferensiasi Penderita Karsinoma Payudara Jenis Duktus Invasif. *Jurnal Kedokteran Muhammadiyah*. 2 (1): 12-15.
- Ale M.T., Mikkelsen JD, Meyer AS. 2011. Important determinants for fucoidan bioactivity: A critical review of structure–function relations and extraction methods for fucose–containing sulfated polysaccharides from brown seaweeds. *Marine Drugs*. 9:2106–2130. doi: [10.3390/md9102106](https://doi.org/10.3390/md9102106)
- Alia M. N., 2009. *Bakteri Streptomyces Griseus*, dikutip dari <http://unalea.blogspot.com/2009/03/bakteri-streptomyces-griseus.html> , diakses pada tanggal 10 Oktober 2020.
- Alvarez, J. dan Shoichet, B. (Eds.). 2005. *Virtual Screening in Drug Discovery*. Taylor and Francis., Oxford.
- Anonim, 2009. Yayasan Kesehatan Payudara Jakarta RS Kanker Dharmais, <http://www.pitapink.com/id/salam.html>, diakses pada tanggal 2 Oktober 2020.
- Anonim, 2010. *Biobakterisida Streptomyces spp.*, dikutip dari <http://z47d.wordpress.com/2010/04/18/biobakterisida-streptomyces-spp-s4/> , diakses pada tanggal 9 Oktober 2020.
- Anonim, 2012. *Agens Pengendali Hayati*, dikutip dari <http://blog.ub.ac.id/noviadwirani/2012/06/16/agens-pengendali-hayati-aph/>, diakses pada tanggal 9 Oktober 2020.
- Ardrey, R.E. 2003. *Liquid Chromatography-Mass Spectrometry: An Introduction*. John Wiley & Sons, Ltd., New Jersey.
- Asma, S. N., Iwan D. dan Muhammad Danial. 2015. Isolasi dan Identifikasi Senyawa Metabolit Sekunder Ekstrak Kloroform Daun Tembelekan (*L. camara* Linn.) dan Uji Potensi Sebagai Senyawa Antibakteri Alami. *Chemica: Jurnal Ilmiah Kimia dan Pendidikan Kimia*. 16 (2): 92-102.
- Bergers, G., and Hanahan D. 2008. Modes of resistance to anti-angiogenic therapy. *Nature Review Cancer*. 8: 592–603.
- Bouker, K.B., Skaar, T.C., Riggins, R.B., 2005. Interferon regulatory factor-1 (IRF-1) exhibits tumor suppressor activities in breast cancer associated with caspase activation and induction of apoptosis. *Carcinogenesis*. 26: 1527–1535
- Boyle, N., Banck, M., James, C., Morley, C., van der Meersch, T., dan Hutchison, G. R. 2011. Open Babel: An Open Chemical Toolbox. *Journal of Cheminformatics*. 3(33).
- Burry, Richard. 2010. *Immunocytochemistry*. Springer, New York. pp. 7–16. ISBN 978-1-4419-1304-3.
- Carvalho, Cristina, Renato X. Santos, Susana Cardoso, Sónia Correia, Paulo J. Oliveira, Maria S. Santos dan Paula I. Moreira. 2009. Doxorubicin: The Good, the Bad and the Ugly Effect. *Current Medicinal Chemistry*, 16: 3267-3285.

- Christopher W.S., Mann M. dan Nora D. R. 1999. *The role of Cyclooxygenases in inflammation, cancer, and development*. Department of medicine, The vanderbilt cancer center, Nashville, Tennessee.
- Crawford, J. 2002. Recombinant human erythropoietin in cancer-related anemia: Review of clinical evidence. *Oncology*. September (Suppl): 41–53.
- Dai, J., Sorribas, A., Yoshida, W.Y., Kelly, M. dan Williams, P.G. 2010. Xestosaprols from the Indonesian Marine Sponge *Xestospongia* sp. *J. Nat. Prod.* 73(6): 1188-1191.
- Doyle, A., dan Griffiths, J. B., 2000. *Cell and Tissue Culture for Medical Research*, John Wiley and Sons, Ltd., New York.
- Farida, Y., Widada, J., dan Meiyanto, E. 2007. Combination methods for screening marine actinomycetes producing potential compounds as anticancer. *Indonesian Journal of Biotechnology.*, 12(2), 988-997.
- Foloppe, N., dan Chen, I.-J. 2009. Conformational Sampling and Energetics of Drug-like Molecules. *Current Medicinal Chemistry*, 16, 3381-3413.
- Fowles, Ian A., 1998. *Gas Chromatography Analytical Chemistry by Open Learning*. John Wiley and Sons Ltd., New York.
- Fujiwara T, Takahashi Y, Matsumoto K, Kondo E. 1980. Production of a new aminoglycoside antibiotic by a mutant of *Bacillus circulans*. *Journal of Antibiotic*. 33:836-841. [doi: 10.7164/antibiotics.33.836](https://doi.org/10.7164/antibiotics.33.836)
- Gandamihardja S., Wirakusumah K., Shahib N., Sastramihardja, H. dan Aziz, M. 2010. *Role of Cyclooxygenase on Cervical Cancer Growth*. MKB.
- Gartner, LP., dan Hiatt, JL. 2007. *Nucleus*. In: Gartner, LP. dan Hiatt, JL. Color Textbook of Histology. 3rd. Ed. Saunders Elsevier. Philadelphia. p. 61-8.
- Gibbs JB. 2000. Mechanism-based target identification and drug discovery in cancer. *Science*; 287:1969–73
- Giovana, S. Di Marco., R, Stefan., H, Uta., A, Susanne., Maximilian., König., L, Etienne., O, Hans., B, Eva., P, Hermann. dan Marcus, B. 2009. The Soluble VEGF Receptor sFlt1 Contributes to Endothelial Dysfunction in CKD. *Journal of the American society of Nephrology*. 20 (10): 2235-2245
- Globocan. 2018. Number of cases in 2018. Retrieved April 15, 2020, from <https://gco.iarc.fr/today/data/factsheets/populations/360-indonesia-factsheets.pdf>.
- Gotsbacher, M.P. and Karuso, P. 2015. New Antimicrobial Bromotyrosine Analogues from the Sponge *Pseudoceratina purpurea* and Its Predator *Tylodina corticalis*. *Journal of Marine Drugs*, 13 (3): 1389-1409.
- Gottlieb, H.E., Kotlyar, V. and Nudelman, A. 1997. NMR Chemical Shifts of Common Laboratory Solvents as Trace Impurities. *Journal of Organic Chemistry*, 62: 7512-7515.
- Greenwald P. 2002. Cancer prevention clinical trials. *Journal of Clinical Oncology*. 20 (18 Suppl):14–22
- Gritter, R.J., Bobbitt, J.M. dan Schwarting, A.E. 1985. *Introduction to Chromatography*, Holden-Day INC, Oakland, USA.
- Hanahan D., Weinberg R.A. 2011. Hallmark of Cancer: The Next Generation. *Cell*. 144 (5): 646-674.

- Hartanto, S., 2012. *Keragaman Gen NRPS pada Isolat-isolat Aktinomisetes Laut yang Berpotensi Menghasilkan Senyawa Antikanker*, Tesis, Universitas Gadjah Mada.
- Hartinger C.G., Nazarov A.A., Ashraf S.M., Dyson P.J., dan Keppler B.K. 2008. Carbohydrate-metal complexes and their potential as anticancer agents. *Current Medicinal Chemistry*. 15:25-33. doi: [10.2174/09298670885908978](https://doi.org/10.2174/09298670885908978)
- Hendayana, S., 1994. *Kimia Analitik Instrumen*, Edisi 1, IKIP Semarang Press, Semarang.
- Herdini, C., Hartanto, S., Mubarika, S., Hariwiyanto, B., Wijayanti, N., dan Hosoyama, A., 2015. Diversity of nonribosomal peptide synthase genes in the anticancer producing Actinomycetes isolated from marine sediment in Indonesia. *Indonesian Journal of Biotechnology*, 20(1):34-41.
- Hertiani, Triana, Ru Angelie Edrada-Ebel, Sofia Ortlepp, Rob W. M. Van Soest, Nicole J. De Voog, Victor Wray, Ute Hentschel, Svetlana Kozytska, Werner E. G. Müller dan Peter Proksch, 2010. From anti-fouling to biofilm inhibition: New cytotoxic secondary metabolites from two Indonesian Agelas sponges. *Bioorganic and Medicinal Chemistry*. 18: 1297–1311.
- Imaniar, N. I., 2013. *Aktivitas Antivirus Metabolit Sekunder Aktinomisetes Laut dan Tanah Terhadap Virus Dengue Serotipe-1*, Tesis, Program Studi Bioteknologi UGM.
- J. Ulya, 2009, *Kemampuan Penghambatan Streptomyces spp. Terhadap Mikroba Patogen Tular Tanah Pada Beberapa Kondisi Pertumbuhan : Jenis media, Waktu Produksi, pH dan Suhu*, dikutip dari [http://repository.ipb.ac.id/bitstream/handle/123456789/4626/Tinjauan%20Pustaka%202009j\\_ul-3.pdf?sequence=9](http://repository.ipb.ac.id/bitstream/handle/123456789/4626/Tinjauan%20Pustaka%202009j_ul-3.pdf?sequence=9), diakses pada tanggal 9 Oktober 2020.
- Jemal, A., Siegel, R., Ward, E., Murray, T., Xu, J. dan Thun, M. J. 2007. Cancer Statistics. *Cancer Journal for Clinicians*. 57: 43–66.
- Jia X., Zhang C., Qiu J., Wang L., Bao J., Wang K., Zhang Y., Chen M., Wan J., Sua H., Han J., He C. 2015. Purification, structural characterization and anticancer activity of the novel polysaccharides from *Rhynchosia minima* root. *Carbohydrate Polymer*. 132: 67–71. doi: 10.1016.
- Junedi, S., Susidarti, R.A., dan Meiyanto, A., 2010. Peningkatan Efek Sitotoksik Doxorubicin oleh Naringenin pada Sel Kanker payudara T47D melalui Induksi Apoptosis, *Indonesian Journal of Pharmacy*, Vol. 8., No., 2, p:85-90.
- Kavitha, A., Vijayalakshmi, M., Sudhakar, P., and Narasimha, G. 2010. Screening of Actinomycete strains for the production of antifungal metabolites. *African Journal of Microbiology Research*. 4 (1), 027-032.
- Kerbel, R., and J. Folkman. 2002. clinical translation of angiogenesis inhibitors. *Nature Reviews Cancer*. vol. 2: p 727-739.
- King, R.J.B. 2000. *Cancer Biology*. 2<sup>nd</sup> Ed. Pearson Education Limited, London.
- Koolman, Jan. 1994. *Atlas Berwarna dan Teks Biokimia*. diterjemahkan oleh Septelia Inawati Wanadi Jan Koolman, Klaus-Heinrich Rohm. Jakarta: Hipokrates.

- Lambert, J.B. dan Mazolla, E.P. 2004. *Nuclear Magnetic Resonance Spectroscopy: An Introduction to Principles, Applications and Experimental Methods*. Pearson Education: London.
- Lester, S. C. 2010. *Acute and Cronic Inflammation*. In: Kumar V, Abbas AK, Fausto N. dan Aster JC, eds. Robbins and Cotran Pathologic Basis of Disease, Professional Edition: Expert Consult-Online. Philadelphia: Saunders Elsevier.
- Li, Q., Zhou, S., Jing, J., Yang, T., Duan, S. dan Wang, Z. 2013. Oligosaccharide from apple induces apoptosis and cell cycle arrest in HT29 human colon cancer cells. *International Journal of Biological Macromolecules*. 57: 245–254.
- Lodish, H., Berk, A., Zipursky, Lawrence, S., Maturada, P., Baltimore, D. dan Darnell, J., 2003. *Molecular Cell Biology*, 5<sup>th</sup> Edition, W.H. Freeman and Company, New York, 1054-1062.
- Magarvey, N. A., Keller, J., Bernan, V., Dworkin, M. dan Sherman, D. 2004. Isolation and characterization of novel marine-derived actinomycete taxa rich in bioactive metabolites. *Appl Environ Microbiol.*, 70, 7520-7529.
- Manson, A., et al. 2006. *The Molecular Basis of Genetic*. In: Manson, A., Jones, E. dan Morris, A. Cell Biology and Genetics. 2nd. Ed. London: Mosby. p. 72-7.
- Marham, Sitorus. 2009. *Spektroskopi Elusida Struktur Molekul Organik*. Yogyakarta: Graha Ilmu.
- Masriani, Mustofa, Jumina, Sunarti dan Eny Enawaty. 2014. Cytotoxic and proapoptotic activities of crude alkaloid from root of sengkubak (*Pycnarrhena cauliflora* (Miers) Diels) in human breast cancer T47D cell line. *Scholars Academic Journal of Biosciences*; 2(5): 336-340.
- McMurry, J. 2008. *Organic Chemistry*. 7<sup>th</sup> edition. p. 440- 469. Graphic World Inc.: Missouri.
- Meiyanto, E. 2011. *Harapan dan Tantangan Pengembangan Agen Kemoprevensi Kanker Tepat Sasaran*. Pidato Pengukuhan Guru Besar. UGM.
- Meiyanto, E., Supardjan A.M., dan Da'i, M., 2003. Antiproliferative effect of PGV-0 (a curcumin analogue) against HeLa cells, *Gama Sains*, 5 (3): 200-206.
- Mikuni K, Nakanishi K, Hara K, Hara K, Iwatani W, Amano T, Nakamura K, Tsuchiya Y, Okumoto dan Manda T. 2008. *In Vivo* Antitumor Activity of Novel Water-Soluble Taxoids. *Biological and Pharmaceutical Bulletin*. 31:1155-1158. doi: [10.1248/bpb.31.1155](https://doi.org/10.1248/bpb.31.1155).
- Motiejunas, D., dan Wade, R. 2006. *Structural, Energetics, and Dynamic Aspects of Ligand-Receptor Interactions*. In: J. B. Taylor dan D. J. Triggle (Eds.), Comprehensive Medicinal Chemistry II Volume 4: Computer-Assisted Drug Design. Elsevier. 4: 193-214.
- Mutiah, Roihatul, Alfiyah Laily Inayatin, Rahmi Annisa, Yen Yen Ari Indrawijaya, Anik Listiyana. 2020. Inhibition of Cell Cycle and Induction of Apoptosis y Ethanol Leaves Extract of *Chrysanthemum cinerariifolium* (Trev.) In T47D Breast Cancer Cells. *Indonesian Journal of Pharmacy*. 31 (1): 1–10.
- NCI (National Cancer Institute), 2011. *Breast Cancer*, <http://www.cancer.gov/cancertopics/types/breast>, accessed at May 1<sup>st</sup> 2017.

- Ogino S, Kirkner GJ, Nosho K, Irahara N, Kure S. dan Shima K. 2008. Cyclooxygenase-2 expression is an independent predictor of poor prognosis in colon cancer. *Clinical Cancer Research*. 14: 8221-7.
- Onuki, R., Kawasaki, H., Baba, T., dan Taira, K., 2003. Analysis of A Mitochondrial Apoptotic Pathway Using Bid-Targeted Ribozymes in Human MCF7 Cells in the Absence of A Caspase-3-Dependent Pathway, Antisense and Nucleic Acid. *Drug Development*. 13 (2): 75-82.
- Otoguru K, Ishiyama A, Kobayashi M, Sekiguchi H, Izuhara T, Sunazuka T, Tomoda H, Yamada H. dan Omura S. 2004. *In vitro* and *in vivo* antimalarial activities of a carbohydrate antibiotic, prumycin, against drug-resistant strain of *Plasmodia*. *Journal of Antibiotic*. 56:400 – 402. [doi: 10.7164/antibiotics.57.400](https://doi.org/10.7164/antibiotics.57.400)
- Palleros, D.R., 2004. *Experimental Organic Chemistry*. John Wiley & Sons, New York.
- Papetti, M. and I.M. Herman. 2002. Mechanisms of normal and tumor-derived angiogenesis. *American Journal of Physiology-Cell Physiology*. 282: C947-C970.
- Pasquini C. 2003. Near Infrared Spectroscopy: fundamentals, practical aspects and analytical applications. *Journal of the Brazilian Chemical Society*. 15:23-31.
- Pavia, D.L., Lampman, G.M., Kriz, G.S., dan Vyvyan, J.R. 2009. *Introduction to Spectroscopy*. Saunders College. Philadelphia.
- Pavia, Donald L., Gary M. Lampman, George S. Kriz, Randall G. Engel. 2006. *Introduction to Organic Laboratory Techniques* (4<sup>th</sup> Ed.). Thomson Brooks/Cole. Pp. 797–817.
- Prior, B. M., H.T. Yang and R. L. Terjung. 2004. What makes vessels grow with exercise training. *Journal of Applied Physiology*. 97: 1119-28.
- Prunet, C., 2005. Activation of Caspase-3-Dependent and -Independent Pathways During 7-Ketocholesterol- and 7 $\beta$ -Hydroxycholesterol-Induced Cell Death: A Morphological and Biochemical Study. *Journal of Biochemical and Molecular Toxicology*.
- Puryatiningsih, R. A., 2009. *Isolasi Streptomyces dari Rizosfer Familia Poaceae yang Berpotensi Menghasilkan Antibiotik terhadap Escherichia Coli*, Universitas Muhammadiyah Surakarta, Surakarta.
- Puspita, N., M. Ardiani, A.G. Fina, E. P. Septisetyani dan E. Meiyanto. 2002. *Ekstrak etanolik kulit jeruk mandarin (Citrus reticulata) meningkatkan ekspresi faktor angiogenik VEGF pada sel kanker kolon WiDr*. Cancer Chemoprevention Research Center (CCRC). Fakultas Farmasi Universitas Gadjah Mada
- Ramiro, Q.L., Rolando M.C., Ricardo, G.F., Hartmut, L., María, J.V., Humberto, H.M., Patricia. T.G., Reyes, T.G. dan Cristina. R.P. 2012. Bioassay Guided Isolation and Identification of Cytotoxic Compounds from *Gymnosperma glutinosum* Leaves. *Molecules Journal*, 17: 11229-11241.
- Renshaw, Simon. 2017. *Immunohistochemistry and Immunocytochemistry: Essential Methods, Second Edition*. John Wiley & Sons, Ltd. pp. 35–102.



- Renu Solanki, Monisha Khanna, Rup Lal, 2008. Bioactive compounds from marine actinomycetes. *Indian Journal of Microbiology*. 48:410-431.
- Rigas, B. & Kashfi, K. 2005. Cancer prevention: a new era beyond cyclooxygenase-2. *Journal of Pharmacology and Experimental Therapeutics*, 314: 1-8.
- Riset Kesehatan Dasar, 2013. Badan Litbangkes Kementerian Kesehatan RI dan Data Penduduk Sasaran, Pusdatin Kementerian Kesehatan RI: Jakarta
- Ristimäki, A., Sivula, A., Lundin, J., Lundin, M., Salminen, T., Haglund, C., Joensuu, H. dan Isola, J. 2002. Prognostic significance of elevated cyclooxygenase-2 expression in breast cancer. *Cancer Research*. 62, 632-635.
- Rock, B.A. 1997. *An Introduction to Chemometrics – Definitions*. Diakses di: [http://ourworld.compuserve.com/homepage/Catbar/chem\\_def.htm](http://ourworld.compuserve.com/homepage/Catbar/chem_def.htm)
- Roe, J.E., Prentice, W.E. dan Hornak, J. P. 1996. Multipurpose MRI Phantom Based on a Reverse Micelle Solution. *Magnetic Resonance in Medicine*. 35: 136-141.
- Ruddon, R.W., 2007. *Cancer Biology*, fourth edition, Oxford University Press, New York.
- Sastrohamidjojo, Hardjono. 1991. *Kromatografi*. Penerbit Liberty. UGM, Yogyakarta.
- Schneider, G., dan Baringhaus, K.H. 2008. *Molecular Design: Concepts and Applications*. WILEY-VCH: Weinheim.
- Sharaf M.A., D.L. Illman dan B.R. Kowalski. 1986. *Chemometrics*. New York: John Wiley & Sons.
- Shim, V., Gauthier, M. L., Sudilovsky, D., Mantei, K., Chew, K. L., Moore, D. H., Cha, I., Tisty, T. D. dan Esserman, L. J. 2003. Cyclooxygenase-2 expression is related to nuclear grade in ductal carcinoma in situ and is increased in its normal adjacent epithelium. *Cancer Research*. 63, 2347-2350.
- Silverstein, R.M., Webster, F.X. dan Kiemle, D.J. 2005. *Spectrometric Identification of Organic Compounds, Seventh Edition*. United States of America: John Wiley & Sons, Ltd: New York.
- Skoog, D.A., West, D.M., Holler, J.F. dan Crouch, S.R. 2013. *Fundamental of Analytical Chemistry. 9th Edition*. Nelson Education, Ltd: Canada.
- Skoog, Douglas A., Donald M. West, F. dan James Holler. 1991. *Fundamental of Analytical Chemistry. 7th Edition*. Saunders College Publishing: New York.
- Sobolewski, C., Cerella, C., Dictato, M., Ghibelli, L. dan Diederich, M. 2010. The role of cyclooxygenase-2 in cell proliferation and cell death in human malignancies. *International journal of cell biology*. 7:78-85.
- Steve, M.C. dan Russell, J.M. 2008. *Bioactive Natural Products. 2<sup>nd</sup> edition*. CRC Press: Florida.
- Suhartati, Tati. 2017. *Dasar-Dasar Spektrofotometri UV-Vis dan Spektrometri Massa untuk Penentuan Struktur Senyawa Organik*. Lampung: Penerbit AURA.
- Sunaryanto, R., Marwoto, B., Irawadi, T.T., Mas'ud, Z.A., dan Hartoto, L. 2010<sup>a</sup>. Isolasi dan elusidasi struktur kimia antimikroba yang dihasilkan oleh aktinomisetes laut. *Jurnal Pascapanen dan Bioteknologi Kelautan dan Perikanan*. 5(1):11-18.

- Sunaryanto, R., Marwoto, B. dan Yoshihide Matsuo. 2010<sup>b</sup>. Isolasi dan Elusidasi Struktur Kimia Antimikroba yang Dihasilkan oleh Aktinomisetes Laut. *Jurnal Pascapanen dan Bioteknologi Kelautan dan Perikanan*. 5(2):111–116.
- Suryadarma, Mulya. 2004, *Pengembangan Metode Analisis*, Airlangga Press, Surabaya.
- Trott, Oleg dan Arthur J. Olson. 2010. AutoDock Vina: improving the speed and accuracy of docking with a new scoring function, efficient optimization and multithreading. *Journal of Computational Chemistry*. 31(2): 455–461. doi:10.1002/jcc.21334.
- Verma I.M., Stevenson J.K., Schwarz E.M., Van Antwerp D. and Miyamoto S. 1995. REL/NFKB/IKB family: intimate tales of association and dissociation. *Genes Development*., 9, 2723–2735.
- Verweij, Japp dan Herbert M. Pinedo. 1990. Mitomycin C: mechanism of action, usefulness and limitations. *Anticancer drug*. 1:5-13.
- Vora, T., De Azambuja, E., Awada, A., dan Piccart, M., 2009. Novel therapeutics in breast cancer Looking to the future. *Update on Cancer Therapeutics*. 3: 189–205.
- World Health Organization (WHO). 2018. *Cancer*. Retrieved April 15, 2020, from <https://www.who.int/news-room/fact-sheets/detail/cancer>.
- World Health Organization. International Agency for Research on Cancer. GLOBOCAN 2012: *Latest world cancer statistics*. National Cancer Institute. 2014. Available at: <http://globocan.iarc.fr/Default.aspx>. diakses pada tanggal 5 Oktober 2020.
- Wozniak MA, Keely PJ. 2005. Use of three-dimensional collagen gels to study mechanotransduction in T47D breast epithelial cells. *Biological Procedures Online*. 7: 144–161.
- Wyk, A. W.W., Froneman, P.W., Bernard, K.S. dan Coleman, M.T.D. 2007. New isocopalane diterpene diester from a sub-Antarctic marine nudibranch. *Journal of Arkivoc*, 9: 121-128.
- Xie JH, Liu X, Shen MY, Nie SP, Zhang H, Li C, Gong D.M., dan Xie MY. 2013. Purification, physicochemical characterisation and anticancer activity of a polysaccharide from *Cyclocarya paliurus* leaves. *Food Chemistry*. 136:1453–1460. doi: 10.1016/j.foodchem.2012.09.078
- Xuanjun Fang, Zhang Ying, dan Hong Shaoliang. 1999. Studies on structure of pullulan from *Aureobasidium pullulans* by FTIR and NMR. *Chinese Journal of Biochemistry and Molecular Biology*, 15(1):109-113.
- Yang Yan, LiBin Ye, JingSong Zhang, YanFang Liu, dan QingJiu Tang. 2009. Structural Analysis of a Bioactive Polysaccharide, PISP1, from the Medicinal Mushroom *Phellinus igniarius*. *Bioscience, Biotechnology, and Biochemistry* . 73(1), 134-139.
- Yu-Chia, C., Shang-Wei, T., Li-Lian, T., Chou, Y., Yuan-Shing, H., Mei-Chin, L. dan Jui-Hsin, S. 2012. Cytotoxic Sesterpenoid from a Sponge *Hippospongia* sp. *Journal of Marine. Drugs*, 10: 987-997.

Zampieri, L., 2002. Differential Modulation by Estradiol of P-glycoprotein Drug Resistance Protein Expression in Cultured MCF7 and T47D Breast Cancer Cells. *Anticancer Research*.